LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 27

2023

Bate Stamp Numbers
01183519 – 01185518

Prepared for

Department of the Army
Longhorn Army Ammunition Plant

1976–2023

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS
ADMINISTRATIVE RECORD – CHRONOLOGICAL INDEX

VOLUME 27

2023

A.	Title:	(Cont'd) Report – Appendix F Lab Reports to the Quarterly Evaluation Report, 1st Quarter (January–March) 2023 Groundwater Treatment Plant, Longhorn Army Ammunition Plant, Karnack, Texas
	Author(s):	Department of the Army
	Recipient:	Environmental Protection Agency and Texas Commission on Environmental Quality
	Date:	December 15, 2023
	Bate Stamp:	01183519–01185518

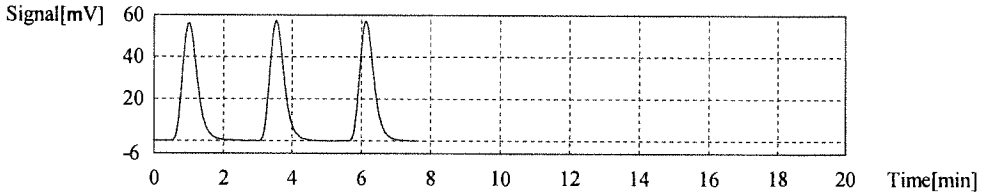
The above Quarterly Evaluation Report was originally published on July 25, 2023, within the July thru September 2023 Admin Record (AR) window, but was revised on December 15, 2023. The Army opted to place this revised report in the July thru September 2023 AR since the previous edition had not yet been printed.

TOC-Control L Report

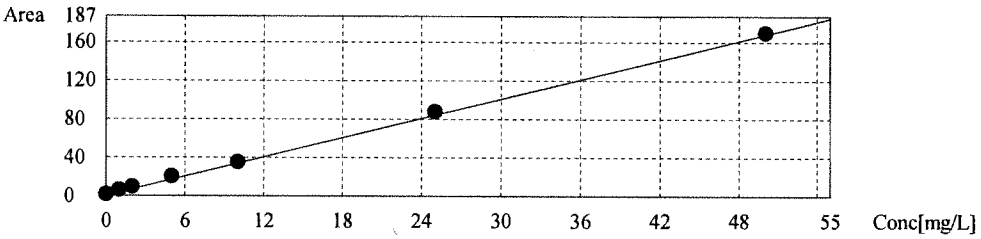
2022_12_22_002_CAL.tlx

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	169.8	50uL	1.000	*******		12/22/2022 1:37:37 PM
2	171.3	50uL	1.000	*******		12/22/2022 1:40:28 PM
3	168.9	50uL	1.000	*******		12/22/2022 1:43:09 PM

Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 170.0



Slope: 3.361
Intercept 0.000
r^2 0.9998
r 0.9999
RSE(%) N/A
Zero Shift Yes



Sample

Sample Name: ICV
Sample ID: 3100606203
Origin: 12_22_2022.cal
Status Completed
Chk. Result

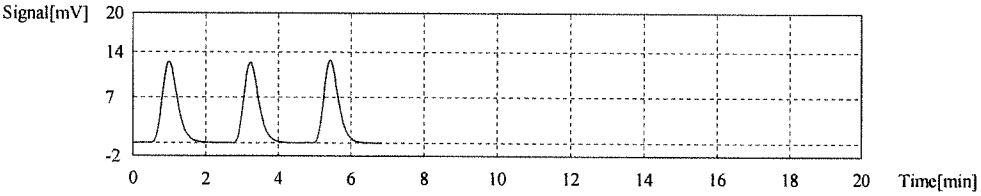
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.79mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	36.41	10.83mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	12/22/2022 1:52:08 PM
2	36.34	10.81mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	12/22/2022 1:54:34 PM
3	36.03	10.72mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	12/22/2022 1:57:10 PM

Mean Area 36.26
Mean Conc. 10.79mg/L



Sample

TOC-Control L Report

2022_12_22_002_CAL.tlx

Sample Name: ICB
Sample ID:
Origin: 12_22_2022.cal
Status Completed
Chk. Result

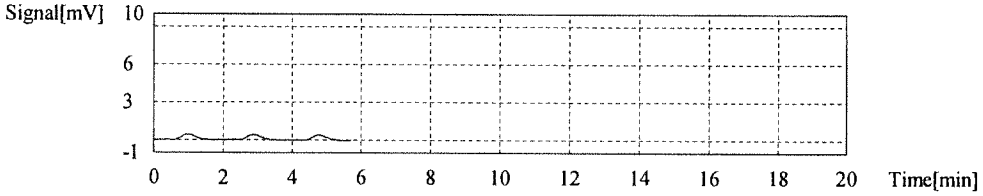
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3481mg/L

1. Det

Anal.: NPOC

No	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.237	0.3681mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	12/22/2022 2:06:02 PM
2	1.118	0.3327mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	12/22/2022 2:08:10 PM
3	1.155	0.3437mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	12/22/2022 2:10:18 PM

Mean Area 1.170
Mean Conc. 0.3481mg/L



C:\TOC-L\Data\2023_03_14_001.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Unknown	NPOC	CCV	321103504	12_22_2022	1.000	NPOC:26.86mg/L	
2	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.1925mg/	
3	Unknown	NPOC	MBLK-03142023		12_22_2022	1.000	NPOC:0.1122mg/	
4	Unknown	NPOC	LCS-03142023	3100606923	12_22_2022	1.000	NPOC:10.78mg/L	
5	Unknown	NPOC	LCSD-03142023		12_22_2022	1.000	NPOC:10.78mg/L	
6	Unknown	NPOC	HS23030314-25DF4000		12_22_2022	1.000	NPOC:55.83mg/L	
7	Unknown	NPOC	HS23030314-26DF4000		12_22_2022	1.000	NPOC:17.54mg/L	
8	Unknown	NPOC	HS23030401-01		12_22_2022	1.000	NPOC:17.57mg/L	
9	Unknown	NPOC	HS23030401-01MS		12_22_2022	1.000	NPOC:28.33mg/L	
10	Unknown	NPOC	HS23030314-25DF5000		12_22_2022	1.000	NPOC:1.063mg/L	
11	Unknown	NPOC	CCV	321103504	12_22_2022	1.000	NPOC:26.96mg/L	
12	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.1629mg/	

C:\TOC-L\Data\2023_03_14_001.tlx

	Status	Date / Time	Vial
1	Completed	3/14/2023 11:38:2	1
2	Completed	3/14/2023 11:51:3	2
3	Completed	3/14/2023 12:04:3	3
4	Completed	3/14/2023 12:18:5	4
5	Completed	3/14/2023 12:33:0	5
6	Completed	3/14/2023 12:48:0	6
7	Completed	3/14/2023 1:11:07	7
8	Completed	3/14/2023 1:25:02	8
9	Completed	3/14/2023 1:39:29	9
10	Completed	3/14/2023 2:15:56	6
11	Completed	3/14/2023 2:52:17	1
12	Completed	3/14/2023 3:47:47	2

TOC-Control L Report

2023_03_14_001.tlx

Instr.Information

Instrument Options: TOC/ASI/IC Unit/
Catalyst: Regular Sensitivity

Sample

Sample Name: CCV
Sample ID: 321103504
Origin: 12_22_2022.cal
Status: Completed
Chk. Result:

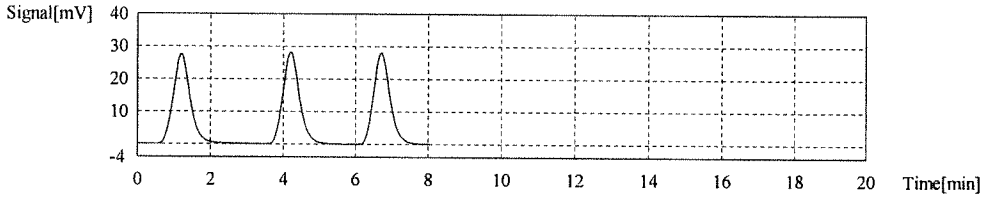
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.86mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	90.08	26.80mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 11:32:48 AM
2	90.45	26.91mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 11:35:36 AM
3	90.29	26.87mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 11:38:21 AM

Mean Area: 90.27
Mean Conc.: 26.86mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 12_22_2022.cal
Status: Completed
Chk. Result:

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1925mg/L

1. Det

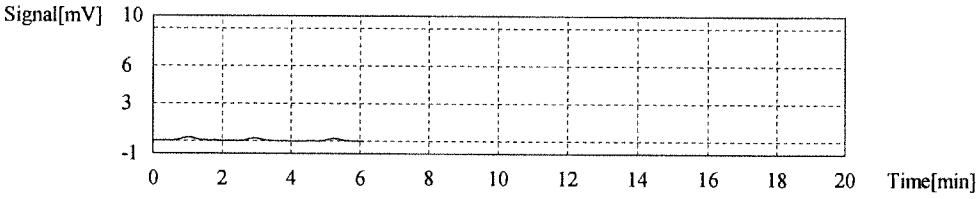
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6940	0.2065mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 11:47:00 AM
2	0.6365	0.1894mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 11:49:31 AM
3	0.6106	0.1817mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 11:51:38 AM

TOC-Control L Report

2023_03_14_001.tlx

Mean Area 0.6470
Mean Conc. 0.1925mg/L



Sample

Sample Name: MBLK-03142023
Sample ID:
Origin: 12_22_2022.cal
Status Completed
Chk. Result

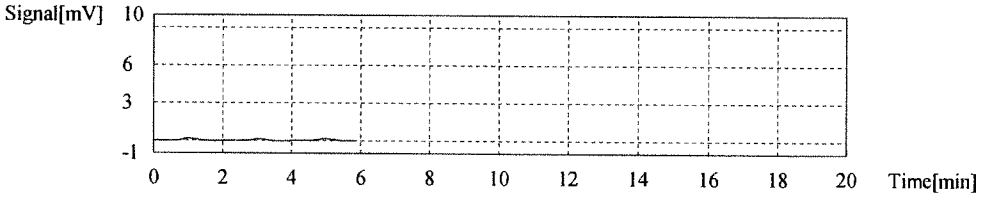
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1122mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3855	0.1147mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 12:00:25 PM
2	0.3282	0.09766mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 12:02:32 PM
3	0.4177	0.1243mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 12:04:39 PM

Mean Area 0.3771
Mean Conc. 0.1122mg/L



Sample

Sample Name: LCS-03142023
Sample ID: 3100606923
Origin: 12_22_2022.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.78mg/L

1. Det

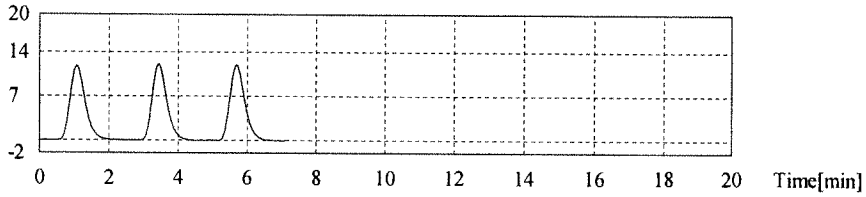
Anal.: NPOC

TOC-Control L Report

2023_03_14_001.tlx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	36.13	10.75mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 12:13:46 PM
2	36.05	10.73mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 12:16:14 PM
3	36.51	10.86mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 12:18:57 PM

Mean Area 36.23
Mean Conc. 10.78mg/L



Sample

Sample Name: LCSD-03142023
Sample ID:
Origin: 12_22_2022.cal
Status Completed
Chk. Result

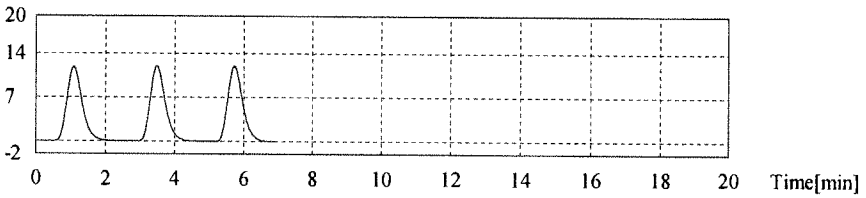
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.78mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	36.35	10.82mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 12:28:07 PM
2	36.19	10.77mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 12:30:35 PM
3	36.18	10.77mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 12:33:01 PM

Mean Area 36.24
Mean Conc. 10.78mg/L



Sample

Sample Name: HS23030401-01
Sample ID:
Origin: 12_22_2022.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:17.57mg/L

1. Det

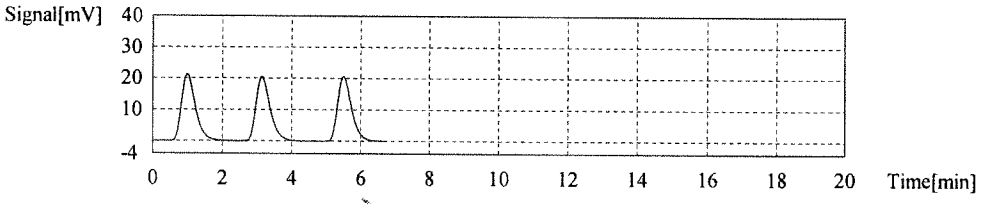
TOC-Control L Report

2023_03_14_001.tlx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	59.32	17.65mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 1:20:01 PM
2	58.94	17.54mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 1:22:37 PM
3	58.87	17.52mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 1:25:02 PM

Mean Area 59.04
Mean Conc. 17.57mg/L



Sample

Sample Name: HS23030401-01MS
Sample ID:
Origin: 12_22_2022.cal
Status Completed
Chk. Result

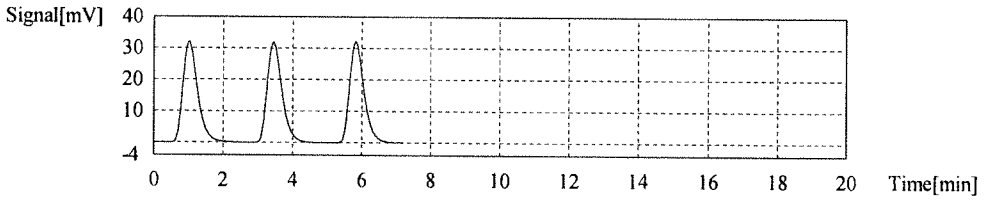
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.33mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	94.96	28.26mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 1:34:13 PM
2	95.33	28.37mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 1:36:52 PM
3	95.33	28.37mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 1:39:29 PM

Mean Area 95.21
Mean Conc. 28.33mg/L



Sample

Sample Name: CCV
Sample ID: 321103504
Origin: 12_22_2022.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.96mg/L

TOC-Control L Report

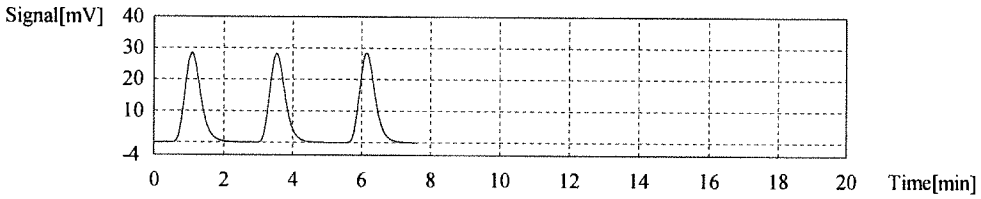
2023_03_14_001.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	90.92	27.05mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 2:46:40 PM
2	90.14	26.82mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 2:49:32 PM
3	90.78	27.01mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 2:52:17 PM

Mean Area 90.61
Mean Conc. 26.96mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 12_22_2022.cal
Status Completed
Chk. Result

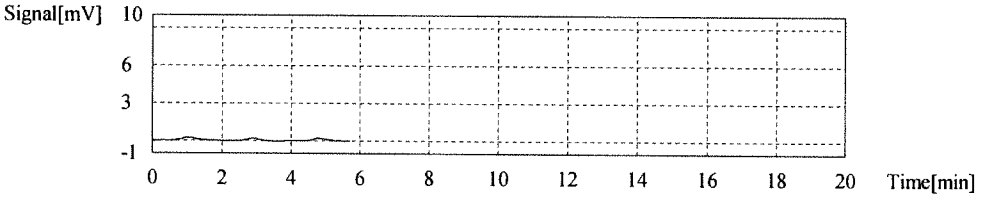
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1629mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5770	0.1717mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 3:43:32 PM
2	0.5488	0.1633mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 3:45:39 PM
3	0.5167	0.1537mg/L	50uL	1.000		12_22_2022.2022_12_22_13_06_45.cal	3/14/2023 3:47:47 PM

Mean Area 0.5475
Mean Conc. 0.1629mg/L



HS23030401 E2300225 Perchlorate Report
Level IV

ALS WO# HS23030401

March 09, 2023 Service Request No:E2300225

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd
Suite 129
Lakewood, CO 80228

Laboratory Results for: LHAAP

Dear Marcia,

Enclosed are the results of the sample(s) submitted to our laboratory March 08, 2023
For your reference, these analyses have been assigned our service request number **E2300225.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Environmental

Client:	Bhate Environmental Associates	**Service Request No.:**	E2300225
Project:	LHAAP	**Date Received:**	03/08/23
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Two were received for analysis at ALS Environmental in Houston on 03/08/23.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2300114: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: Bhate Environmental Associates, Inc. **Service Request:**E2300225
Project: LHAAP/NWO1312.0150.016.0001

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300225-001	LH18/24-SP650_030723_AIX	3/7/2023	1300
E2300225-002	LH18/24-SP650_030723_BIX	3/7/2023	1300

Service Request Summary

Folder #: **E2300225**
Client Name: Bhate Environmental Associates, Inc.
Project Name: LHAAP
Project Number: NWO1312.0150.016.0001

Report To: Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd
Lakewood, CO 80228
USA
Phone Number: 303-597-2450
Cell Number:
Fax Number:
E-mail: molive@bhate.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: JGUIN
Date Received: 03/08/23
Internal Due Date: 3/9/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo_LOD

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: SMO
Pressure Gas:
Rush

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2300225-001	LH18/24-SP650_030723_AIX	Water	03/07/23 1300	**IV**
E2300225-002	LH18/24-SP650_030723_BIX	Water	03/07/23 1300	**IV**

Service Request Summary

Folder #: **E2300225**
Client Name: Bhate Environmental Associates, Inc.
Project Name: LHAAP
Project Number: NWO1312.0150.016.0001

Report To: Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd
Lakewood, CO 80228
USA
Phone Number: 303-597-2450
Cell Number:
Fax Number:
E-mail: molive@bhate.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: JGUIN
Date Received: 03/08/23
Internal Due Date: 3/9/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo_LOD

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: SMO
Pressure Gas:
Rush

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

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ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793	5/27/2023
Arkansas Department of Environmental Quality	22-041-0	3/27/2023
California Department of Health Services	2919-2023	4/30/2023
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Hawaii Department of Health	2022	4/30/2023
Illinois Environmental Protection Agency	2000322022-9	5/9/2023
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Michigan Depratment of Environmental Quality	9971-2022	4/30/2023
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2023
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209422	4/24/2023
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	11707	3/31/2023
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002	5/15/2023
Pennsylvania Department of Environmental Protection	68-03441-016	6/30/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	04016-2022	4/30/2023
Texas Commision on Environmental Quality	T104704231-22-29	4/30/2023
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

ALS

Chain of Custody

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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **21073**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

RUSH

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS23030401
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23030401-02**	**LH18/24-SP650_030723_AIX**	**Water**	**07 Mar 2023 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			09 Mar 2023
2.	**HS23030401-03**	**LH18/24-SP650_030723_BIX**	**Water**	**07 Mar 2023 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			09 Mar 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

ALS Environmental

Cooler Receipt Form

Project Chemist JG

Client/Project M/s Houston

Thermometer ID IR31

Date/Time Received: 03/08/23 1300 Initials: JG

Date/Time Logged in: 03/08/23 1300 Initials JG

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ○ Courier ✓ Client

2. Samples received in: ✓ Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ✓ Yes ○ No

If yes, how many and where?

Were they intact? ✓ Yes ○ No ○ N/A

Were they signed and dated? ✓ Yes ○ No ○ N/A

4. Packing Material: ○ Inserts ✓ Baggies ○ Bubble Wrap ○ Gel Packs ✓ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ○ No Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
		3/8/23	1300	JG	1.7	☑
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ✓ Yes ○ No

7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ✓ Yes ○ No

8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ✓ Yes ○ No

9. Were appropriate bottles/containers and volumes received for the requested tests? ✓ Yes ○ No

10. Did sample labels and tags agree with custody documents? ✓ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label:

HS-HRMSCoolerReceipt R1.0

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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

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Preparation Information Benchsheet

Prep Run#: 416139 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 3/8/23 13:07

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300221-001	RSA-095-INT-03	.01	6850/ClO4 DOD			Water	10mL	
2	E2300221-002	RSA-095-INT-04	.01	6850/ClO4 DOD			Water	10mL	
3	E2300225-001	LH18/24-SP650_030723_AIX	.01	6850/ClO4 DOD			Water	10mL	
4	E2300225-002	LH18/24-SP650_030723_BIX	.01	6850/ClO4 DOD			Water	10mL	
5	EQ2300114-01	MB		6850/ClO4			Liquid	10mL	
6	EQ2300114-02	LCS		6850/ClO4			Liquid	10mL	
7	EQ2300114-03	DLCS		6850/ClO4			Liquid	10mL	
8	R2301578-012	2302211253 200L-SB-17	.01	6850/ClO4			Water	10mL	
9	R2301584-009	2302220942Y 600-E-280	.01	6850/ClO4			Water	10mL	
10	R2301664-014	2302231435C 100-C-365	.01	6850/ClO4			Water	10mL	
11	R2301664-016	2302231516Y 200-C-170	.01	6850/ClO4			Water	10mL	
12	R2301664-021	2302241041Y 200-F-370	.01	6850/ClO4			Water	10mL	
13	R2301664-028	2302241538X 300-E-183	.01	6850/ClO4			Water	10mL	
14	R2301716-012	2302271323 100L-SB-15	.01	6850/ClO4			Water	10mL	
15	R2301727-012	2302280853 100L-SB-13	.01	6850/ClO4			Water	10mL	

Spiking Solutions

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 226778 Logbook Ref: Perchlorate Internal Standard Expires On: 05/31/2023

E2300221-001	100.00µL	E2300221-002	100.00µL	E2300225-001	100.00µL	E2300225-002	100.00µL	EQ2300114-01	100.00µL	EQ2300114-01	100.00µL
EQ2300114-02	100.00µL	EQ2300114-02	100.00µL	EQ2300114-03	100.00µL	EQ2300114-03	100.00µL	R2301578-012	100.00µL	R2301584-009	100.00µL
R2301664-014	100.00µL	R2301664-016	100.00µL	R2301664-021	100.00µL	R2301664-028	100.00µL	R2301716-012	100.00µL	R2301727-012	100.00µL

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300114-02	1.00µL	EQ2300114-02	1.00µL	EQ2300114-03	1.00µL	EQ2300114-03	1.00µL

Preparation Steps

Step: Preparation
Started: 3/8/23 13:07
Finished: 3/9/23 10:21
By: XMI
Comments

Comments:

Preparation Information Benchsheet

Prep Run#: 416139
Team: Semivoa GCMS/XMI

Prep WorkFlow: GenExt28Day
Prep Method: Method

Status: Prepped
Prep Date/Time: 3/8/23 13:07

Reviewed By: XMI Date: 03/08/23

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Bhate Environmental Associates, Inc.	**Service Request:**	E2300225
Project:	LHAAP/NWO1312.0150.016.0001	**Date Collected:**	3/ 7/23 1300
Sample Matrix:	Water	**Date Received:**	3/ 8/23
Sample Name:	LH18/24-SP650_030723_AIX	**Units:**	µg/L
Lab Code:	E2300225-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**39.2**		0.100	0.0500	0.0250	1	3/ 8/23	3/9/23 09:55	416139	797078	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Bhate Environmental Associates, Inc.	**Service Request:**	E2300225
Project:	LHAAP/NWO1312.0150.016.0001	**Date Collected:**	3/ 7/23 1300
Sample Matrix:	Water	**Date Received:**	3/ 8/23
Sample Name:	LH18/24-SP650_030723_BIX	**Units:**	µg/L
Lab Code:	E2300225-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**3420**		20.0	10.0	5.00	200	3/ 8/23	3/9/23 10:00	416139	797078	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Bhate Environmental Associates, Inc.	**Service Request:**	E2300225
Project:	LHAAP/NWO1312.0150.016.0001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300114-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	3/ 8/23	3/9/23 09:20	416139	797078	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Bhate Environmental Associates, Inc. **Service Request:** E2300225
Project: LHAAP/NWO1312.0150.016.0001 **Date Analyzed:** 3/ 9/23
Sample Matrix: Water

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Units:** µg/L
Prep Method: Method **Basis:** NA

Extraction Lot: 416139

	Lab Control Sample EQ2300114-02			Duplicate Lab Control Sample EQ2300114-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.104	0.100	104	0.107	0.100	107	84 - 119	3	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Bhate Environmental Associates, Inc.	**Service Request:**	E2300225
Project:	LHAAP/NWO1312.0150.016.0001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300114-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.104**		0.100	0.0500	0.0250	1	3/ 8/23	3/9/23 09:31	416139	797078	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Bhate Environmental Associates, Inc.	**Service Request:**	E2300225
Project:	LHAAP/NWO1312.0150.016.0001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300114-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.107**		0.100	0.0500	0.0250	1	3/ 8/23	3/9/23 09:37	416139	797078	

Initial Calibration

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20230201-793296

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XMI
2nd Review: Kneir

ICAL Date: 2/1/2023
Cal. Std. xp: 07/31/2023
ICAL ID: EC2300002

Mobile Phases : A:0.10% Formic Acid/Water 3210303-02 **B:**MeOH 224417

	Sample Name		File Name	Acquisition Method	Dilution	R	Comments	Date/Time
1	PERCHLORATE1		20230201-003	Perchlorate6850c.lcm	1x	☒	227245	2/1/2023 11:50
2	PERCHLORATE2		20230201-004	Perchlorate6850c.lcm	1x	☒	227246	2/1/2023 11:55
3	PERCHLORATE3		20230201-005	Perchlorate6850c.lcm	1x	☒	227247	2/1/2023 12:01
4	PERCHLORATE4		20230201-006	Perchlorate6850c.lcm	1x	☒	227248	2/1/2023 12:07
5	PERCHLORATE5		20230201-007	Perchlorate6850c.lcm	1x	☒	227249	2/1/2023 12:13
6	PERCHLORATE6		20230201-008	Perchlorate6850c.lcm	1x	☒	227250	2/1/2023 12:19
7	PERCHLORATE7		20230201-009	Perchlorate6850c.lcm	1x	☒	227251	2/1/2023 12:25
8	PERCHLORATE8		20230201-010	Perchlorate6850c.lcm	1x	☒	227252	2/1/2023 12:30
9	PERCHLORATE9		20230201-011	Perchlorate6850c.lcm	1x	☒	227253	2/1/2023 12:36
10	PERCHLORATE10		20230201-012	Perchlorate6850c.lcm	1x	☒	227254	2/1/2023 12:42
11	PERCHLORATEICV		20230201-013	Perchlorate6850c.lcm	1x	☒	227256	2/1/2023 12:48
12	LODV		20230201-014	Perchlorate6850c.lcm	1x	☒	225199	2/1/2023 12:54
13	ICS		20230201-015	Perchlorate6850c.lcm	1x	☒	32103024	2/1/2023 13:00
14	PERCHLORATE7		20230201-016	Perchlorate6850c.lcm	1x	☒	227251	2/1/2023 15:24
15	EQ2300047-01		20230201-017	Perchlorate6850c.lcm	1x	☒		2/1/2023 15:30
16	EQ2300047-02		20230201-018	Perchlorate6850c.lcm	1x	☒		2/1/2023 15:36
17	EQ2300047-03		20230201-019	Perchlorate6850c.lcm	1x	☒		2/1/2023 15:41
18	R2300589-005		20230201-020	Perchlorate6850c.lcm	1x	☒		2/1/2023 15:48
19	R2300589-010		20230201-021	Perchlorate6850c.lcm	1x	☒	DNU-BAD PEAK SHAPE	2/1/2023 15:54
20	R2300648-018		20230201-022	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:00
21	R2300648-025		20230201-023	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:06
22	PERCHLORATE7		20230201-024	Perchlorate6850c.lcm	1x	☒	227251	2/1/2023 16:17
23	E2300092-001		20230201-025	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:23
24	E2300092-002		20230201-026	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:29
25	E2300092-003		20230201-027	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:35
26	E2300092-004		20230201-028	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:41
27	E2300094-001		20230201-029	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:47
28	E2300094-002		20230201-030	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:52
29	E2300094-003		20230201-031	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:58
30	E2300094-004		20230201-032	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:04
31	E2300094-005		20230201-033	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:10
32	PERCHLORATE7		20230201-034	Perchlorate6850c.lcm	1x	☒	227251	2/1/2023 17:16
33	E2300096-001		20230201-035	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:21
34	E2300096-002		20230201-036	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:27
35	E2300096-003		20230201-037	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:33
36	E2300096-004		20230201-038	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:39
37	E2300096-005		20230201-039	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:45
38	E2300096-006		20230201-040	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:51
39	E2300096-007		20230201-041	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:56
40	PERCHLORATE7		20230201-042	Perchlorate6850c.lcm	1x	☒	227251	2/1/2023 18:02

Initial Calibration - Detailed Report

Calibration ID: EC2300002 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2300002-01	PERCHLORATE1	20230201-003	02/01/2023 11:50
02	EC2300002-02	PERCHLORATE2	20230201-004	02/01/2023 11:55
03	EC2300002-03	PERCHLORATE3	20230201-005	02/01/2023 12:01
04	EC2300002-04	PERCHLORATE4	20230201-006	02/01/2023 12:07
05	EC2300002-05	PERCHLORATE5	20230201-007	02/01/2023 12:13
06	EC2300002-06	PERCHLORATE6	20230201-008	02/01/2023 12:19
07	EC2300002-07	PERCHLORATE7	20230201-009	02/01/2023 12:25
08	EC2300002-08	PERCHLORATE8	20230201-010	02/01/2023 12:30
09	EC2300002-09	PERCHLORATE9	20230201-011	02/01/2023 12:36
10	EC2300002-10	PERCHLORATE10	20230201-012	02/01/2023 12:42

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 4.86** **Average RF = 0.1385**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1253	02	0.5000	0.13	03	0.7000	0.1346	04	1.0000	0.1399
05	2.0000	0.1406	06	5.0000	0.1404	07	10.0000	0.1416	08	20.0000	0.1407
09	30.0000	0.1447	10	50.0000	0.1477						

Analyte

Perchlorate RSE = 4.86

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0904	-9.6	02	0.5000	0.469	-6.1	03	0.7000	0.680	-2.8
04	1.0000	1.01	0.9	05	2.0000	2.03	1.5	06	5.0000	5.07	1.3
07	10.0000	10.2	2.2	08	20.0000	20.3	1.5	09	30.0000	31.3	4.5
10	50.0000	53.3	6.6								

Initial Calibration Verification Summary Report

Calibration ID:	EC2300002	**Instrument ID:**	E-LCMS-01
Datafile ID:	20230201-013	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2300002-11	T	Average RF	10	10.538	ng/mL	5.4	<= 15

Insight Report

Printed at 2/1/2023 2:06:14 PM

Method File: I:\LCMS01\DATA\02012023\20230201.lcm
Project File: I:\LCMS01\DATA\02012023\20230201.damlp

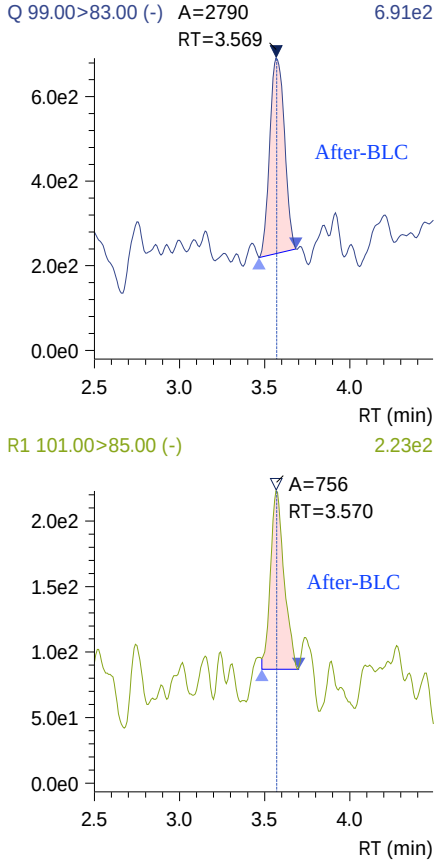
PERCHLORATE1

Sample ID: PERCHLORATE1
Date Acquired: 2/1/2023 11:50:11 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-003.lcd
Vial: 1 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.569	2790	222693	0.0904	ng/mL	101.00 >85.00	27.11	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.568	222693	222693	1.0000	ng/mL	----	----	

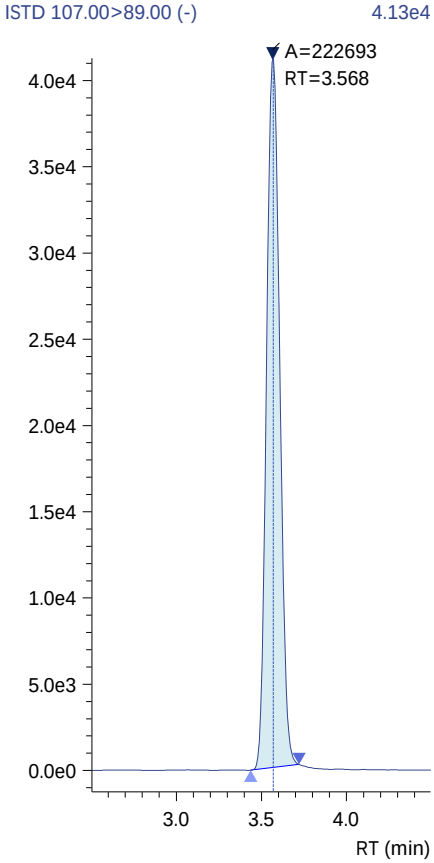
Perchlorate

Conc 0.0904
R#1 27.11 (31.99)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 2/1/2023 1:30:25 PM

Method File: I:\LCMS01\DATA\20230201\20230201ICAL.lcm
Project File: I:\LCMS01\DATA\20230201\20230201ICAL.damIp

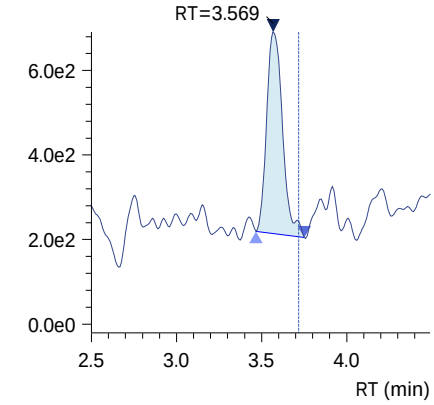
PERCHLORATE1

Sample ID: PERCHLORATE1
Date Acquired: 2/1/2023 11:50:11 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-003.lcd
Vial: 1 | Inj. Volume: 25.0000uL | Tray: 1

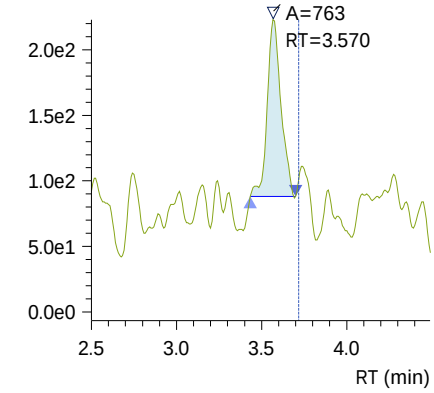
Perchlorate

Conc 0.0996
R#1 24.56 (34.45)

Q 99.00>83.00 (-) A=3105 6.91e2



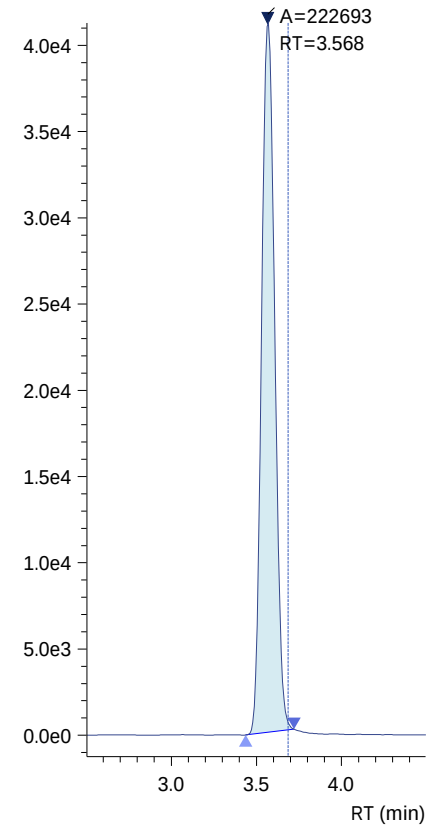
R1 101.00>85.00 (-) 2.23e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.13e4



Insight Report

Printed at 2/1/2023 2:06:14 PM

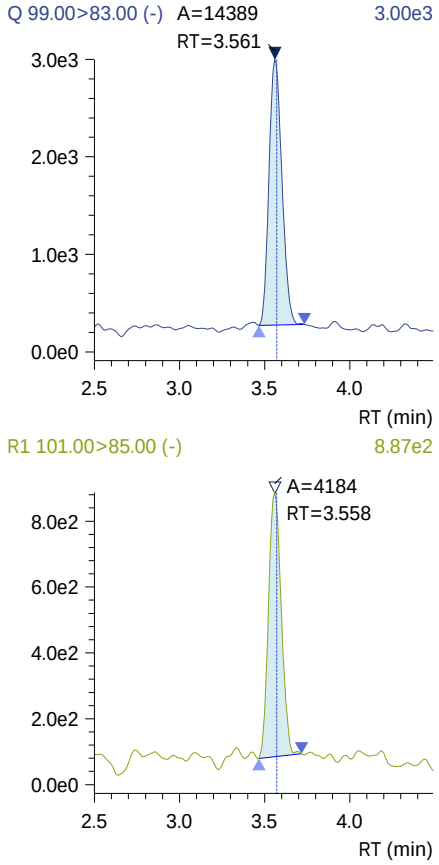
PERCHLORATE2

Sample ID: PERCHLORATE2
Date Acquired: 2/1/2023 11:55:59 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-004.lcd
Vial: 2 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.561	14389	221291	0.4694	ng/mL	101.00 >85.00	29.08	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.558	221291	221291	1.0000	ng/mL	----	----	

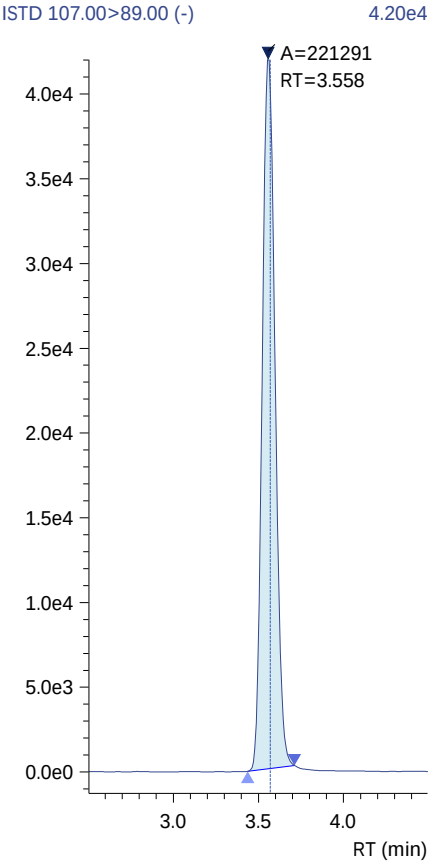
Perchlorate

Conc 0.4694
R#1 29.08 (31.99)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 2/1/2023 2:06:14 PM

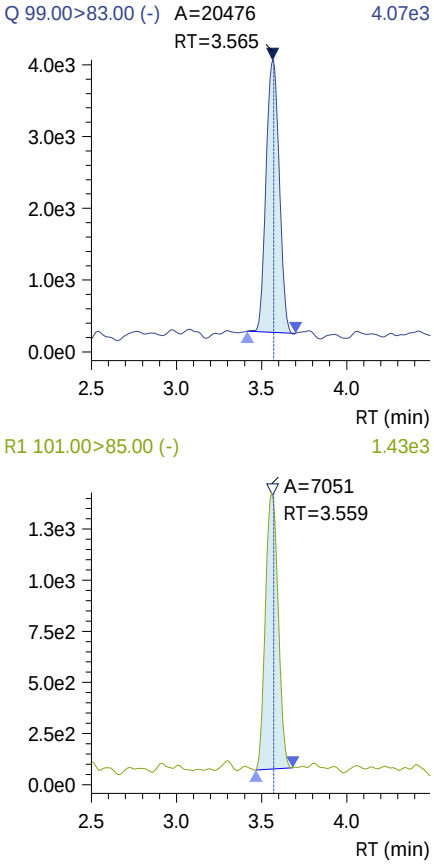
PERCHLORATE3

Sample ID: PERCHLORATE3
Date Acquired: 2/1/2023 12:01:49 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-005.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.565	20476	217325	0.6801	ng/mL	101.00 >85.00	34.44	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.559	21732 5	217325	1.0000	ng/mL	----	----	

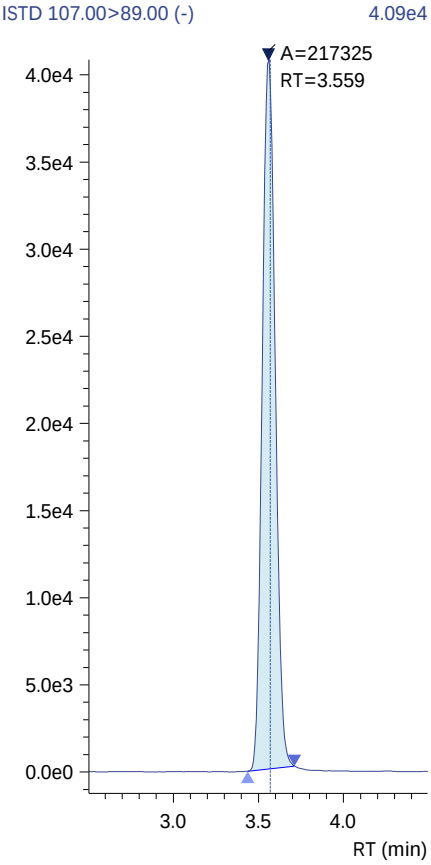
Perchlorate

Conc 0.6801
R#1 34.44 (31.99)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 2/1/2023 2:06:14 PM

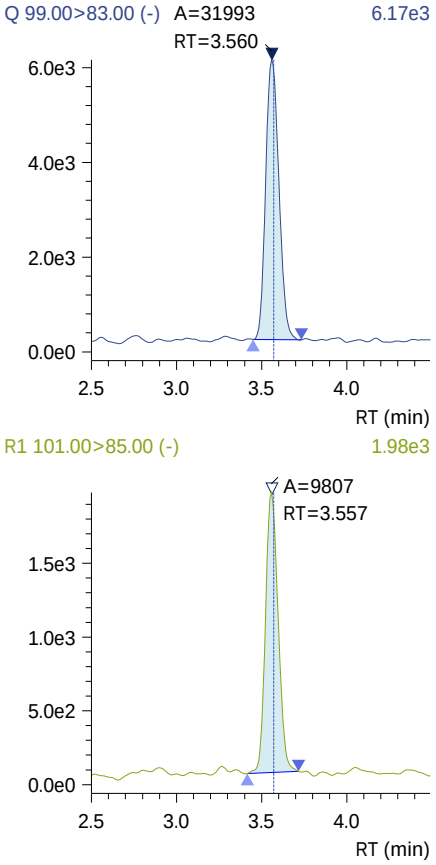
PERCHLORATE4

Sample ID: PERCHLORATE4
Date Acquired: 2/1/2023 12:07:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-006.lcd
Vial: 4 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.560	31993	228763	1.0095	ng/mL	101.00 >85.00	30.65	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.557	228763	228763	1.0000	ng/mL	----	----	

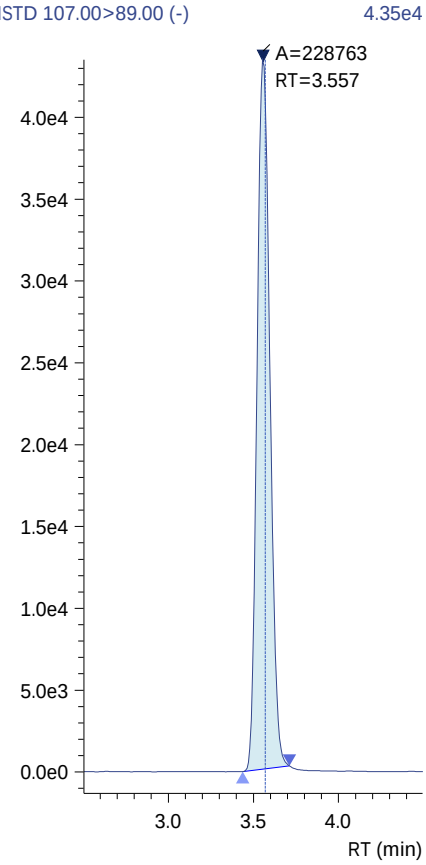
Perchlorate

Conc 1.0095
R#1 30.65 (31.99)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATE5

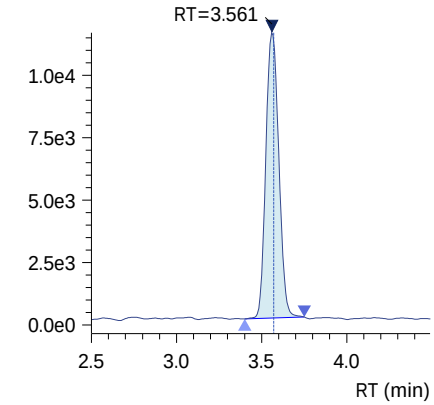
Sample ID: PERCHLORATE5
Date Acquired: 2/1/2023 12:13:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-007.lcd
Vial: 5 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.561	60751	216066	2.0296	ng/mL	101.00 >85.00	32.70	24.11 -44.78
Sodium Perchlorate-18O4 _IS	Auto	3.557	216066	216066	1.0000	ng/mL	----	----	

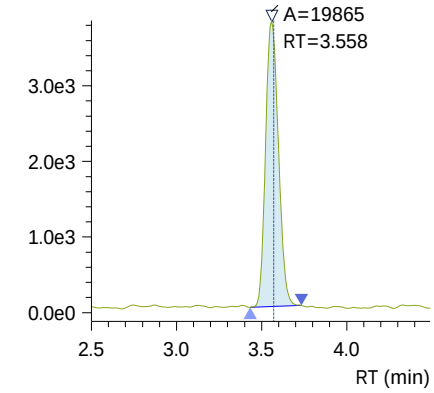
Perchlorate

Conc 2.0296
R#1 32.70 (31.99)

Q 99.00>83.00 (-) A=60751 1.17e4



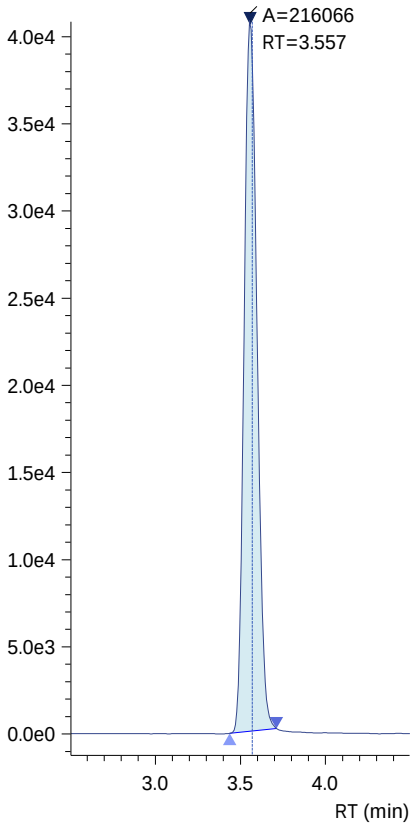
R1 101.00>85.00 (-) 3.87e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.09e4



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATE6

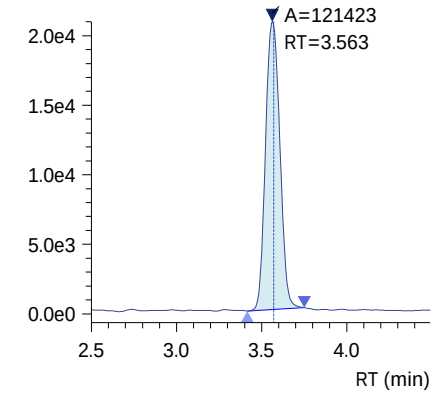
Sample ID: PERCHLORATE6
Date Acquired: 2/1/2023 12:19:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-008.lcd
Vial: 6 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.563	121423	172986	5.0667	ng/mL	101.00 >85.00	32.55	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.558	172986	172986	1.0000	ng/mL	----	----	

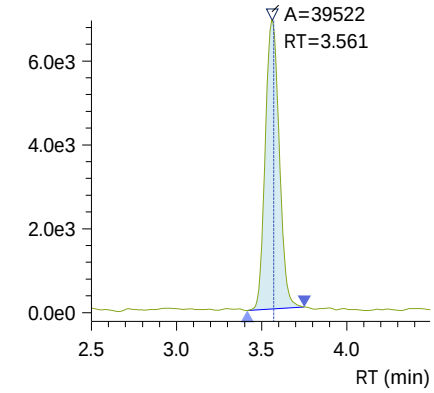
Perchlorate

Conc 5.0667
R#1 32.55 (31.99)

Q 99.00>83.00 (-) 2.10e4



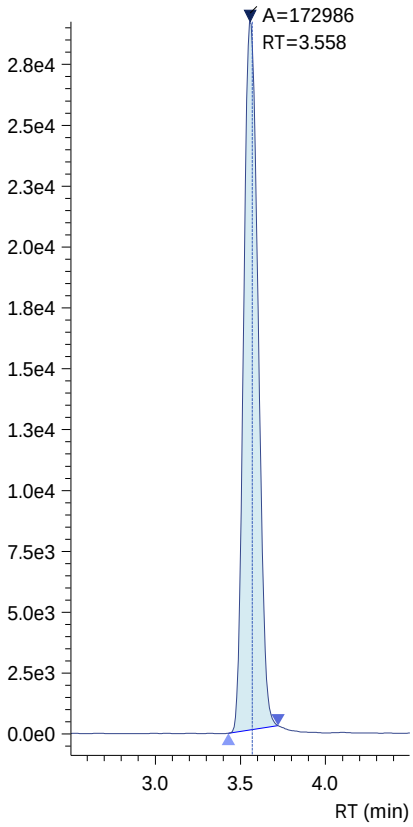
R1 101.00>85.00 (-) 6.97e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.93e4



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATE7

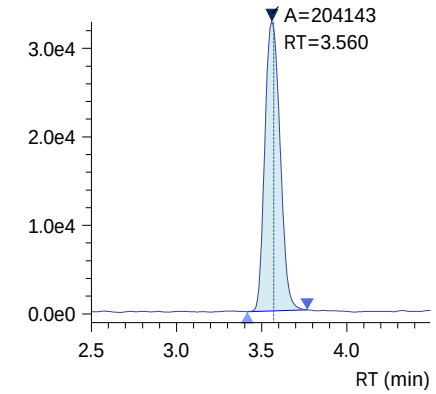
Sample ID: PERCHLORATE7
Date Acquired: 2/1/2023 12:25:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-009.lcd
Vial: 7 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.560	2041 43	144196	10.2 192	ng/mL	101.00 >85.00	31.99	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.555	144196	144196	1.0000	ng/mL	----	----	

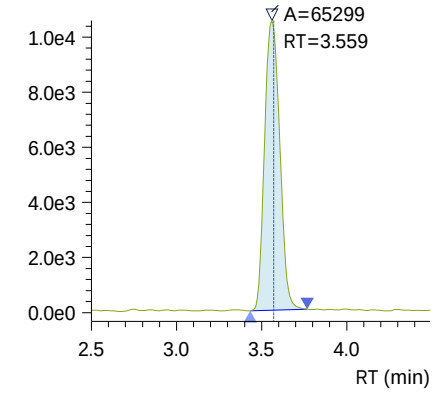
Perchlorate

Conc 10.2192
R#1 31.99 (31.99)

Q 99.00>83.00 (-) 3.30e4



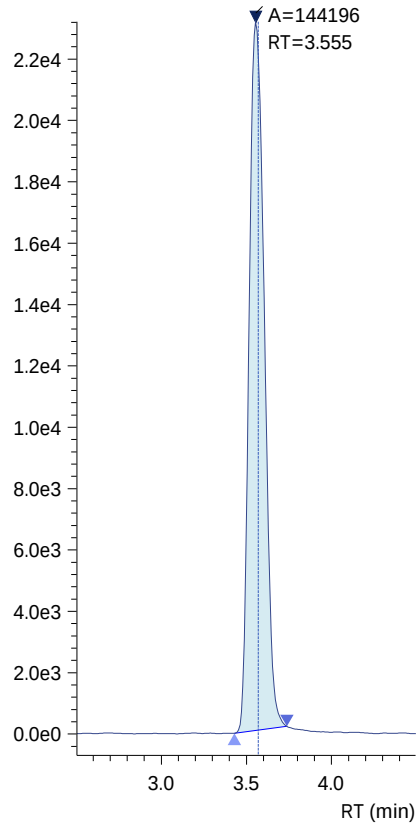
R1 101.00>85.00 (-) 1.06e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.32e4



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATE8

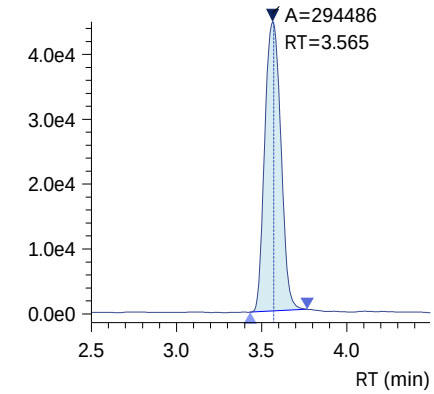
Sample ID: PERCHLORATE8
Date Acquired: 2/1/2023 12:30:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-010.lcd
Vial: 8 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.565	294486	104680	20.3065	ng/mL	101.00 >85.00	32.66	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.557	104680	104680	1.0000	ng/mL	----	----	

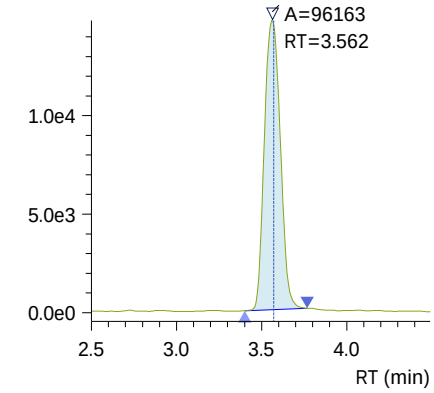
Perchlorate

Conc 20.3065
R#1 32.66 (31.99)

Q 99.00>83.00 (-) 4.50e4



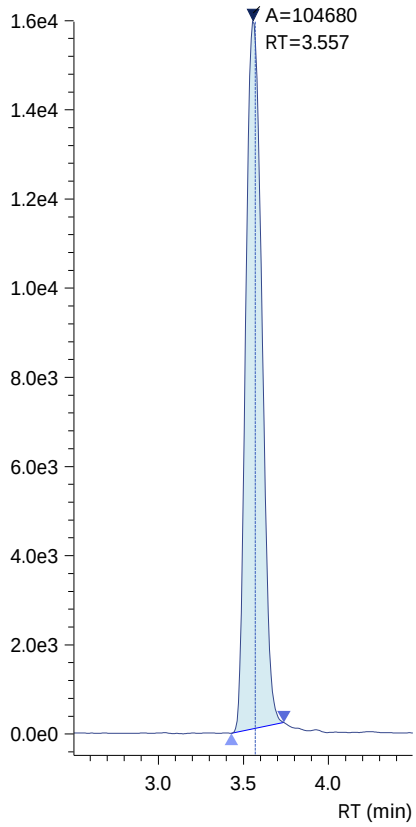
R1 101.00>85.00 (-) 1.48e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.60e4



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATE9

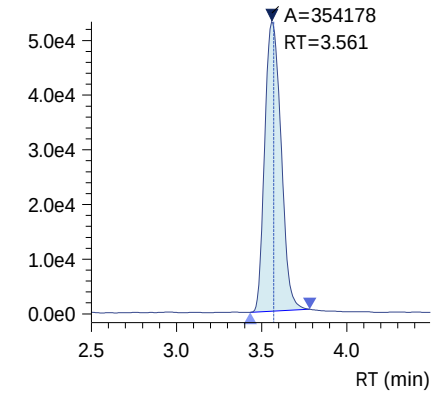
Sample ID: PERCHLORATE9
Date Acquired: 2/1/2023 12:36:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-011.lcd
Vial: 9 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.561	3541	81577	31.3	ng/mL	101.00	31.89	24.11
			78		395		>85.00		-44.78
Sodium Perchlorate-18O4 _IS	Auto	3.557	81577	81577	1.0000	ng/mL	----	----	

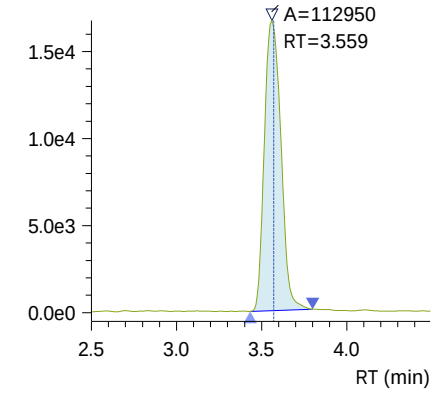
Perchlorate

Conc 31.3395
R#1 31.89 (31.99)

Q 99.00>83.00 (-) 5.34e4



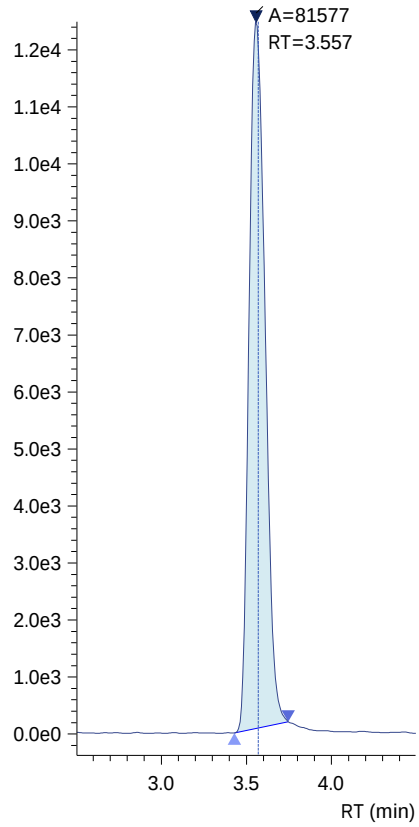
R1 101.00>85.00 (-) 1.68e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.25e4



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATE10

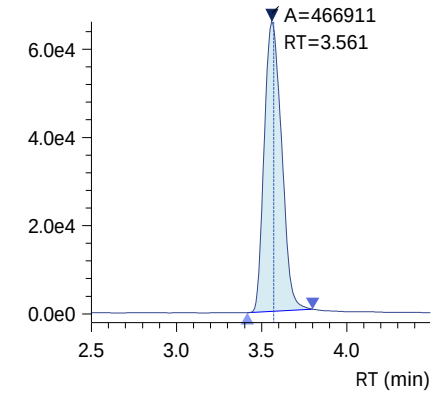
Sample ID: PERCHLORATE10
Date Acquired: 2/1/2023 12:42:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-012.lcd
Vial: 10 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.561	4669	63237	53.2	ng/mL	101.00	32.40	24.11
			11		964		>85.00		-44.78
Sodium Perchlorate-18O4_IS	Auto	3.554	63237	63237	1.0000	ng/mL	----	----	

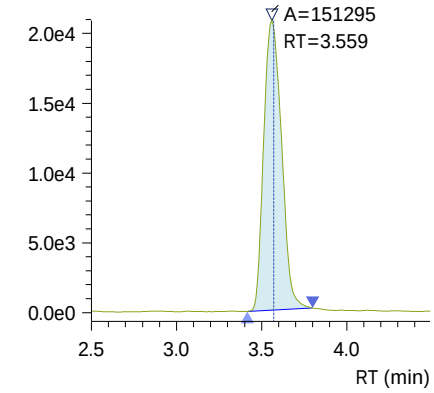
Perchlorate

Conc 53.2964
R#1 32.40 (31.99)

Q 99.00>83.00 (-) 6.62e4



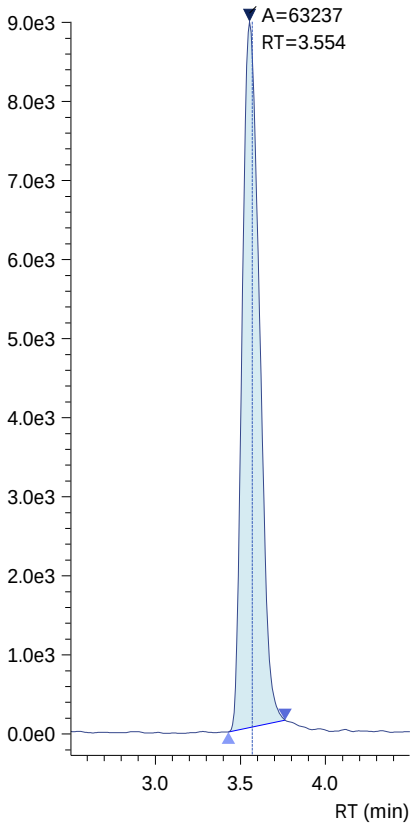
R1 101.00>85.00 (-) 2.09e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 9.01e3



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATEICV

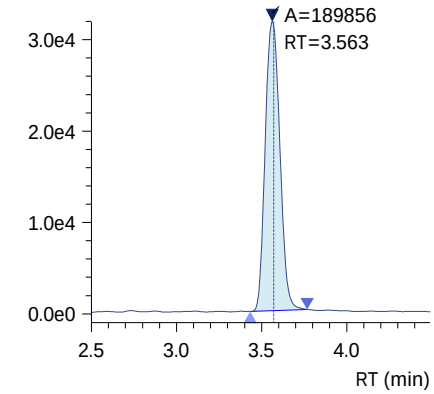
Sample ID: PERCHLORATEICV
Date Acquired: 2/1/2023 12:48:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-013.lcd
Vial: 11 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.563	189856 1898	130049	10.5379 10.5	ng/mL	101.00 >85.00	32.76	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.557	130049 1300	130049	1.0000	ng/mL	----	----	

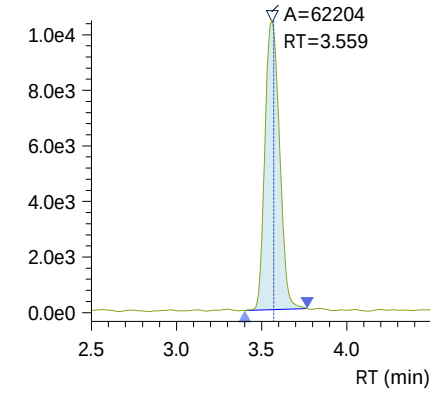
Perchlorate

Conc 10.5379
R#1 32.76 (31.99)

Q 99.00>83.00 (-) 3.20e4



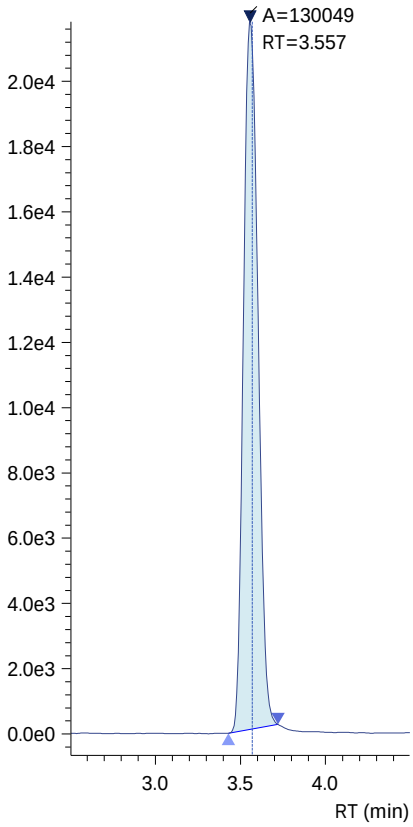
R1 101.00>85.00 (-) 1.05e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.18e4



Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

20230309-797078

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XMI
2nd Review: KNEIR

ICAL Date: 2/1/2023
Cal. Std. xp: 07/31/2023
ICAL ID: EC2300002

Mobile Phases : A:0.10% Formic Acid/Water 3210303-05 **B:**MeOH 224417

	Sample Name		File Name	Acquisition Method	Dilution	R	Comments	Date/Time
1	IB		20230309-001	Perchlorate6850c.lcm	1x	☒		3/9/2023 8:50
2	LODV		20230309-002	Perchlorate6850c.lcm	1x	☒	DNU-NEED RERUN	3/9/2023 8:56
3	ICS		20230309-003	Perchlorate6850c.lcm	1x	☒	32103024	3/9/2023 9:02
4	LODV		20230309-004	Perchlorate6850c.lcm	1x	☒	227501	3/9/2023 9:08
5	PERCHLORATE7		20230309-005	Perchlorate6850c.lcm	1x	☒	227251	3/9/2023 9:14
6	EQ2300114-01		20230309-006	Perchlorate6850c.lcm	1x	☒		3/9/2023 9:20
7	EQ2300114-02		20230309-007	Perchlorate6850c.lcm	1x	☒		3/9/2023 9:31
8	EQ2300114-03		20230309-008	Perchlorate6850c.lcm	1x	☒		3/9/2023 9:37
9	E2300221-001		20230309-009	Perchlorate6850c.lcm	1x	☒		3/9/2023 9:43
10	E2300221-002		20230309-010	Perchlorate6850c.lcm	1x	☒		3/9/2023 9:49
11	E2300225-001		20230309-011	Perchlorate6850c.lcm	1x	☒		3/9/2023 9:55
12	E2300225-002X200		20230309-012	Perchlorate6850c.lcm	200x	☒		3/9/2023 10:00
13	PERCHLORATE7		20230309-013	Perchlorate6850c.lcm	1x	☒	227251	3/9/2023 10:06
14	R2301578-012		20230309-014	Perchlorate6850c.lcm	1x	☒		3/9/2023 10:12
15	R2301584-009		20230309-015	Perchlorate6850c.lcm	1x	☒		3/9/2023 10:18
16	R2301664-014		20230309-016	Perchlorate6850c.lcm	1x	☒		3/9/2023 10:23
17	R2301664-016		20230309-017	Perchlorate6850c.lcm	1x	☒		3/9/2023 10:29
18	R2301664-021		20230309-018	Perchlorate6850c.lcm	1x	☒		3/9/2023 10:35
19	R2301664-028		20230309-019	Perchlorate6850c.lcm	1x	☒		3/9/2023 10:41
20	R2301716-012		20230309-020	Perchlorate6850c.lcm	1x	☒		3/9/2023 10:46
21	R2301727-012		20230309-021	Perchlorate6850c.lcm	1x	☒		3/9/2023 10:52
22	PERCHLORATE7		20230309-022	Perchlorate6850c.lcm	1x	☒	227251	3/9/2023 10:58

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Bhate Environmental Associates, Inc.	**Service Request:**	E2300225
Project:	LHAAP/NWO1312.0150.016.0001	**Date Analyzed:**	3/9/23 09:14

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230309\20230309-005	**Lab Code:**	EQ2300116-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	797078
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	167,281	3.56
	Upper Limit ==>	250,922	5.56
	Lower Limit ==>	83,641	1.56
Associated Analyses			
Continuing Calibration Verification	EQ2300116-01	180,857	3.39
Method Blank	EQ2300114-01	172,722	3.39
Lab Control Sample	EQ2300114-02	180,887	3.40
Duplicate Lab Control Sample	EQ2300114-03	175,100	3.39
LH18/24-SP650_030723_AIX	E2300225-001	150,048	3.40
LH18/24-SP650_030723_BIX	E2300225-002	175,431	3.39

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Bhate Environmental Associates, Inc.	**Service Request:**	E2300225
Project:	LHAAP/NWO1312.0150.016.0001	**Date Analyzed:**	3/9/23 10:06

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230309\20230309-013	**Lab Code:**	EQ2300116-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	797078
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	167,281	3.56
	Upper Limit ==>	250,922	5.56
	Lower Limit ==>	83,641	1.56
Associated Analyses			
Continuing Calibration Verification	EQ2300116-02	195,289	3.39

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Bhate Environmental Associates, Inc.	**Service Request:**	E2300225
Project:	LHAAP/NWO1312.0150.016.0001	**Date Analyzed:**	3/9/23 10:58

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230309\20230309-022	**Lab Code:**	EQ2300116-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	797078
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	167,281	3.56
	Upper Limit ==>	250,922	5.56
	Lower Limit ==>	83,641	1.56
Associated Analyses			
Continuing Calibration Verification	EQ2300116-03	204,721	3.39

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Bhate Environmental Associates, Inc.	**Service Request:**	E2300225
Project:	LHAAP/NWO1312.0150.016.0001	**Date Analyzed:**	3/ 9/23

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method:	6850	**Calibration Date:**	2/1/23
File ID:	I:\LCMS01\DATA\20230309\20230309-005	**Calibration ID:**	EC2300002
		Analysis Lot:	797078
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.81	0.1385	0.1360	-1.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Bhate Environmental Associates, Inc.	**Service Request:**	E2300225
Project:	LHAAP/NWO1312.0150.016.0001	**Date Analyzed:**	3/ 9/23

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method:	6850	**Calibration Date:**	2/1/23
File ID:	I:\LCMS01\DATA\20230309\20230309-013	**Calibration ID:**	EC2300002
		Analysis Lot:	797078
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.45	0.1385	0.1309	-5.5	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Bhate Environmental Associates, Inc. **Service Request:** E2300225
Project: LHAAP/NWO1312.0150.016.0001 **Date Analyzed:** 3/ 9/23

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850 **Calibration Date:** 2/1/23
File ID: I:\LCMS01\DATA\20230309\20230309-022 **Calibration ID:** EC2300002
Analysis Lot: 797078
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.68	0.1385	0.1341	-3.2	NA	± 15 %	Average RF

Insight Report

Printed at 3/9/2023 11:22:03 AM

Method File: I:\LCMS01\DATA\20230309\20230309.lcm
Project File: I:\LCMS01\DATA\20230308\20230309.damlp

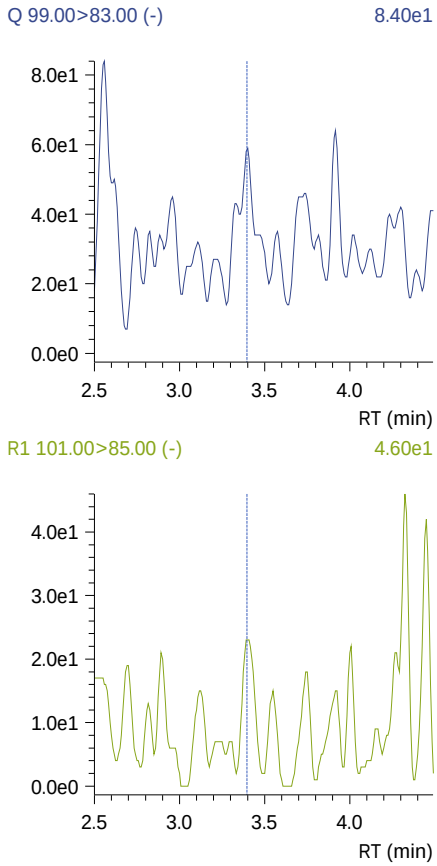
IB

Sample ID: IB
Date Acquired: 3/9/2023 8:50:57 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230309\20230309-001.lcd
Vial: 4 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	151940	----	ng/mL	101.00 >85.00	0.00	22.83 -42.39
Sodium Perchlorate-18O4_IS	Auto	3.395	151940	151940	1.0000	ng/mL	----	----	

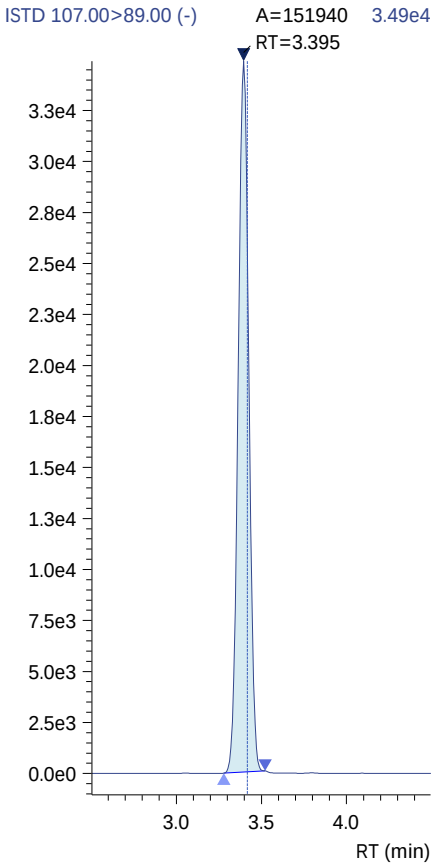
Perchlorate

Conc ----
R#1 0.00 (32.61)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/9/2023 11:22:03 AM

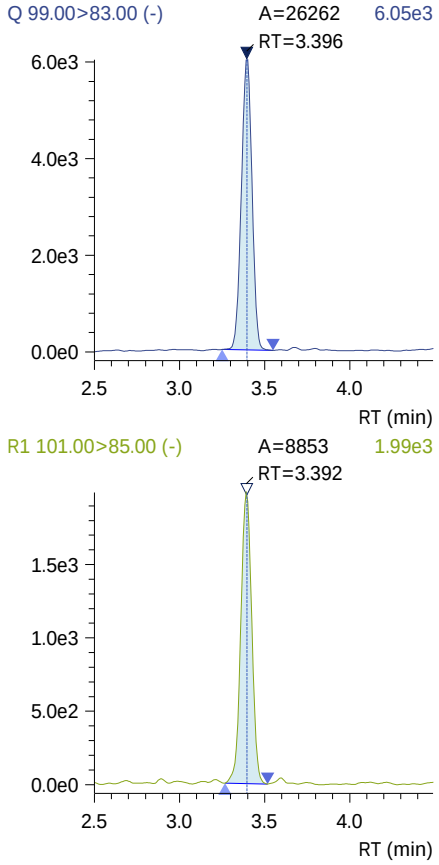
ICS

Sample ID: ICS
Date Acquired: 3/9/2023 9:02:27 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230309\20230309-003.lcd
Vial: 2 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.396	26262	158386	1.1969	ng/mL	101.00 >85.00	33.71	22.83 -42.39
Sodium Perchlorate-18O4_IS	M	3.392	158386	158386	1.0000	ng/mL	----	----	

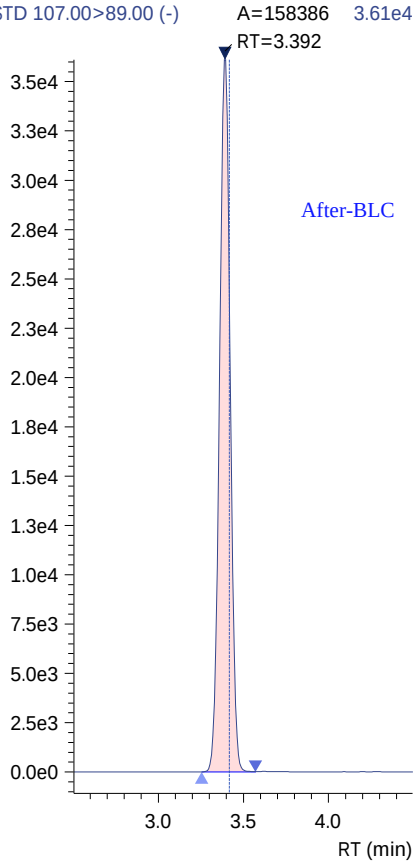
Perchlorate

Conc 1.1969
R#1 33.71 (32.61)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/9/2023 11:23:54 AM

Method File: I:\LCMS01\DATA\20230309\20230309.lcm
Project File: I:\LCMS01\DATA\20230308\20230309.damlp

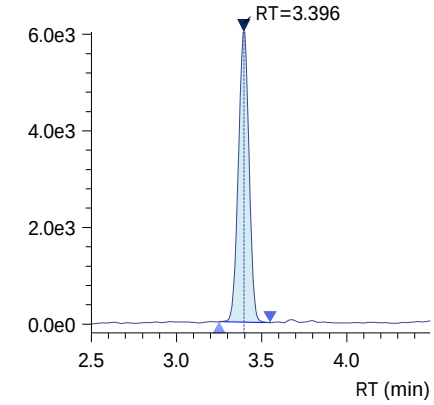
ICS

Sample ID: ICS
Date Acquired: 3/9/2023 9:02:27 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230309\20230309-003.lcd
Vial: 2 | Inj. Volume: 25.0000uL | Tray: 0

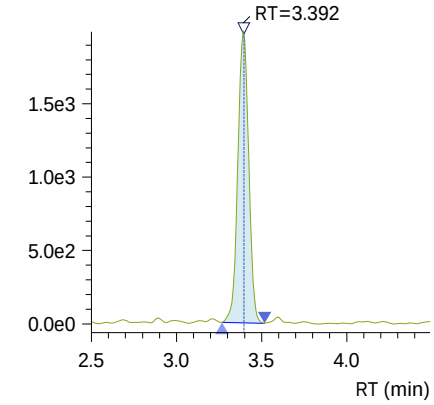
Perchlorate

Conc 1.1890
R#1 33.71 (32.61)

Q 99.00>83.00 (-) A=26262 6.05e3



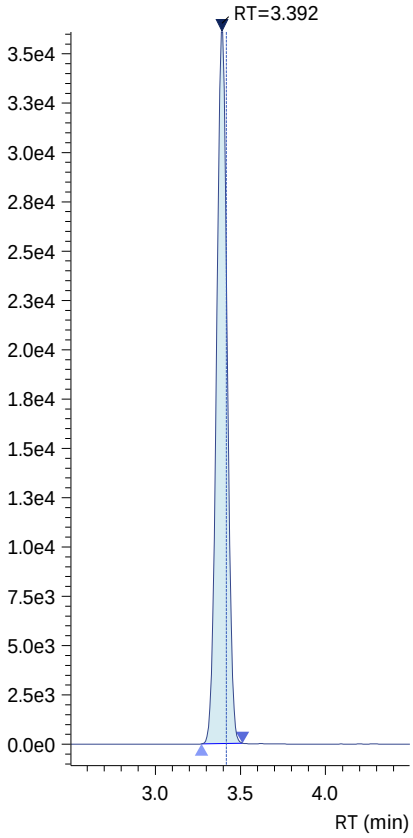
R1 101.00>85.00 (-) A=8853 1.99e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=157824 3.61e4



Insight Report

Printed at 3/9/2023 11:22:03 AM

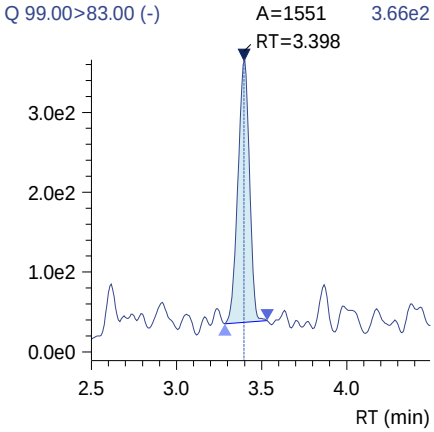
LODV

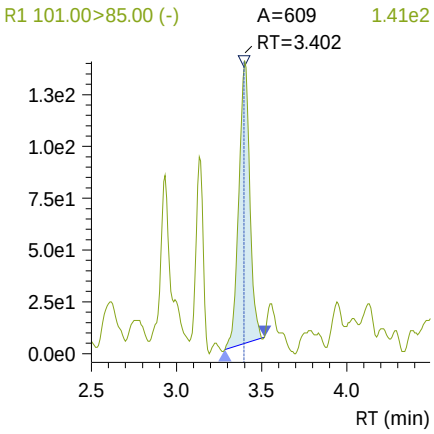
Sample ID: LODV
Date Acquired: 3/9/2023 9:08:09 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230309\20230309-004.lcd
Vial: 1 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.398	1551	175216	0.0639	ng/mL	101.00 >85.00	39.28	22.83 -42.39
Sodium Perchlorate-18O4_IS	Auto	3.395	1752 16	175216	1.0000	ng/mL	----	----	

Perchlorate

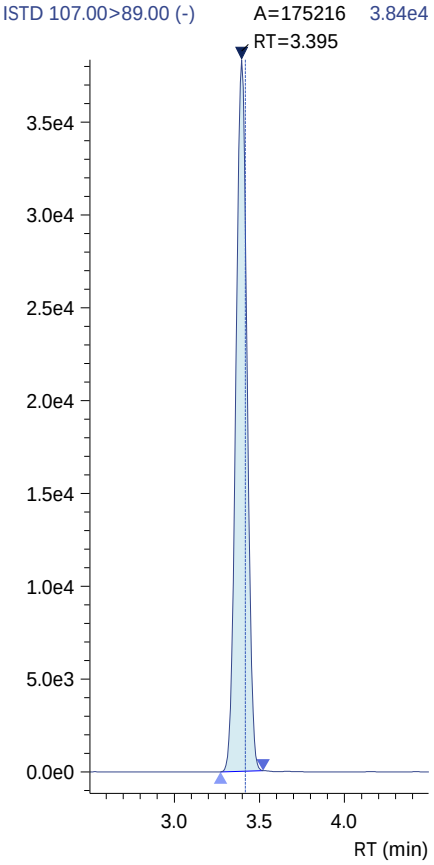
Conc 0.0639
R#1 39.28 (32.61)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/9/2023 11:22:03 AM

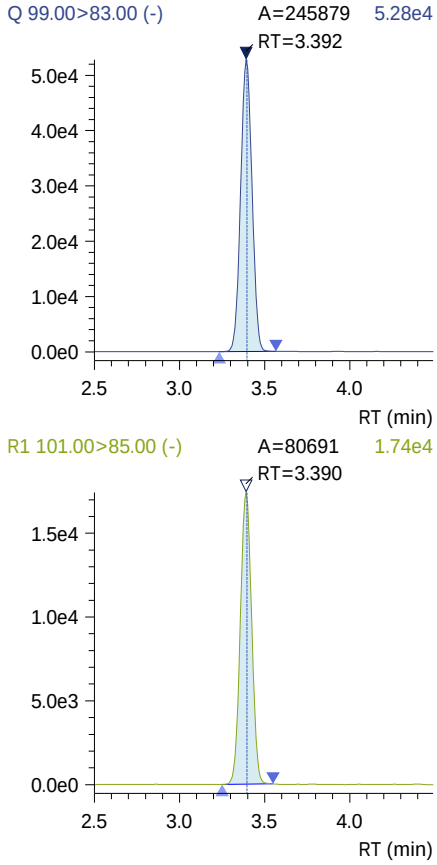
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 3/9/2023 9:14:28 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230309\20230309-005.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.392	245879	180857	9.8135	ng/mL	101.00 >85.00	32.82	22.83 -42.39
Sodium Perchlorate-18O4_IS	Auto	3.390	180857	180857	1.0000	ng/mL	----	----	

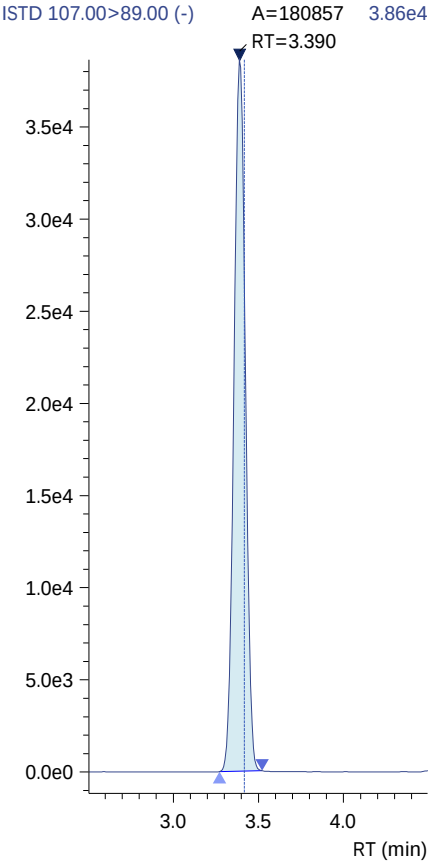
Perchlorate

Conc 9.8135
R#1 32.82 (32.61)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/9/2023 11:22:03 AM

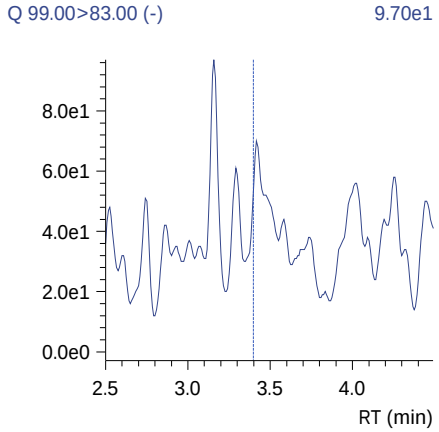
EQ2300114-01

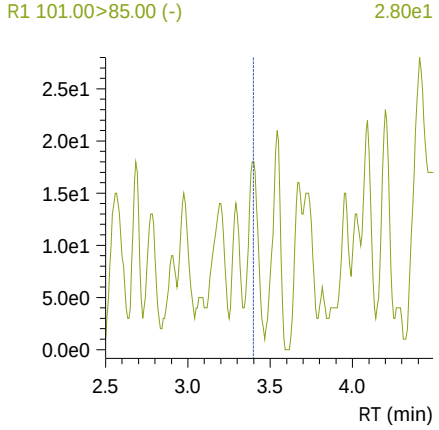
Sample ID: EQ2300114-01
Date Acquired: 3/9/2023 9:20:13 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230309\20230309-006.lcd
Vial: 25 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	172722	----	ng/mL	101.00 >85.00	0.00	22.83 -42.39
Sodium Perchlorate-18O4_IS	Auto	3.394	172722	172722	1.0000	ng/mL	----	----	

Perchlorate

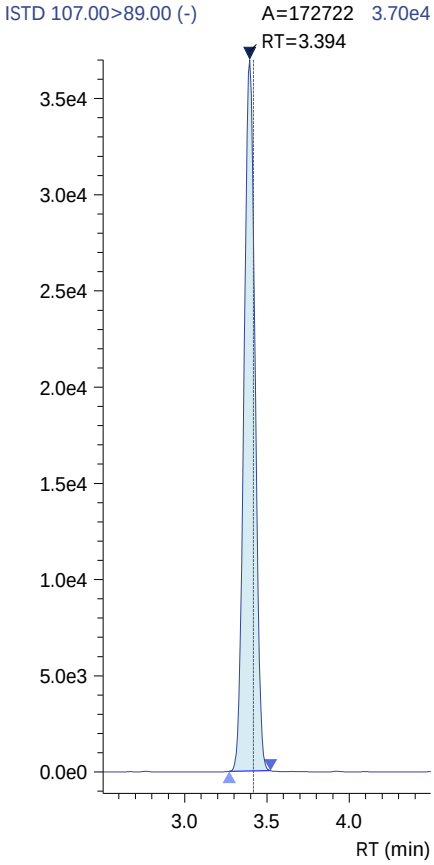
Conc ----
R#1 0.00 (32.61)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/9/2023 11:22:03 AM

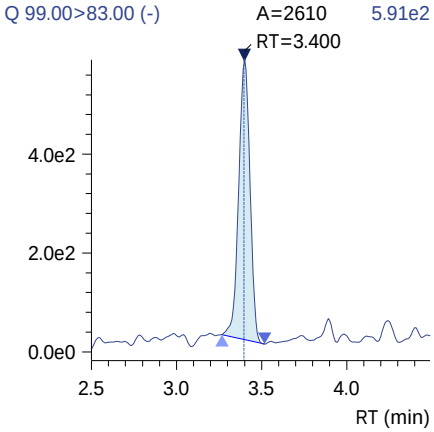
EQ2300114-02

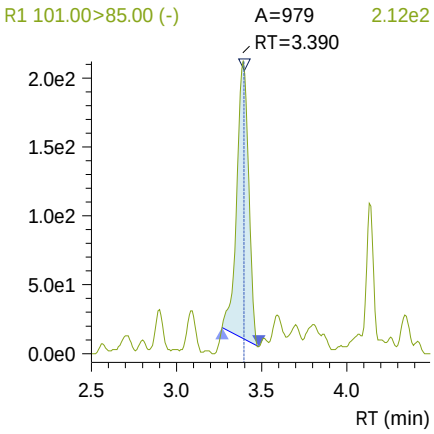
Sample ID: EQ2300114-02
Date Acquired: 3/9/2023 9:31:40 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230309\20230309-007.lcd
Vial: 27 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.400	2610	180887	0.1041	ng/mL	101.00 >85.00	37.49	22.83 -42.39
Sodium Perchlorate-18O4_IS	Auto	3.396	180887	180887	1.0000	ng/mL	----	----	

Perchlorate

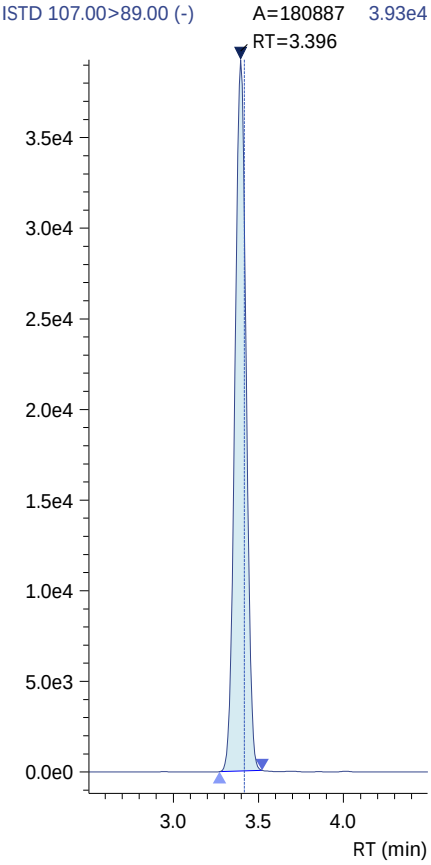
Conc 0.1041
R#1 37.49 (32.61)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/9/2023 11:22:03 AM

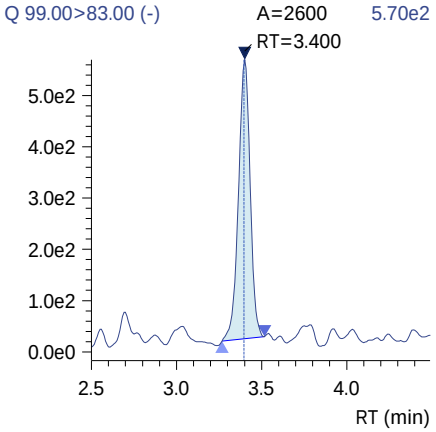
EQ2300114-03

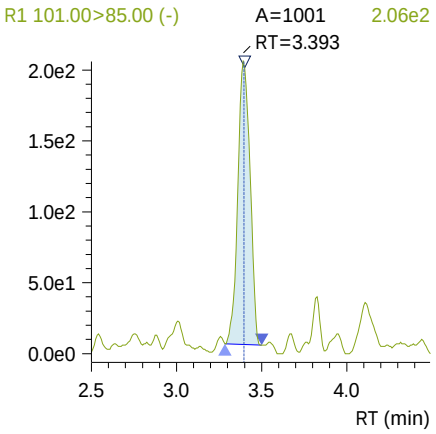
Sample ID: EQ2300114-03
Date Acquired: 3/9/2023 9:37:24 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230309\20230309-008.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.400	2600	175100	0.1072	ng/mL	101.00 >85.00	38.49	22.83 -42.39
Sodium Perchlorate-18O4_IS	Auto	3.394	175100	175100	1.0000	ng/mL	----	----	

Perchlorate

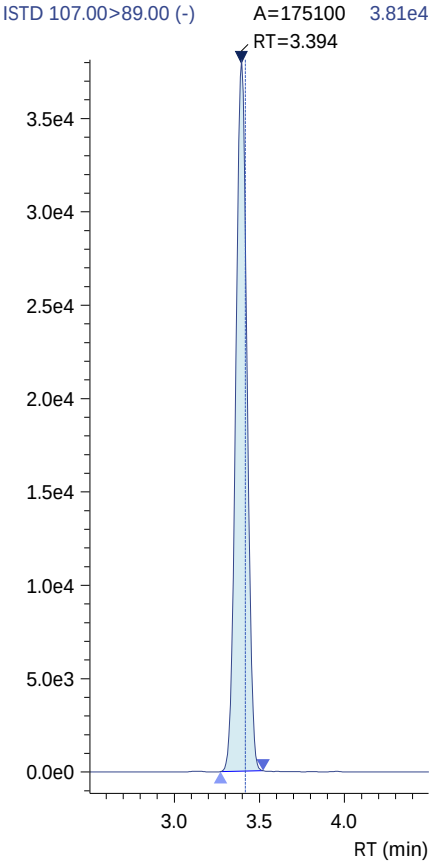
Conc 0.1072
R#1 38.49 (32.61)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/9/2023 11:22:03 AM

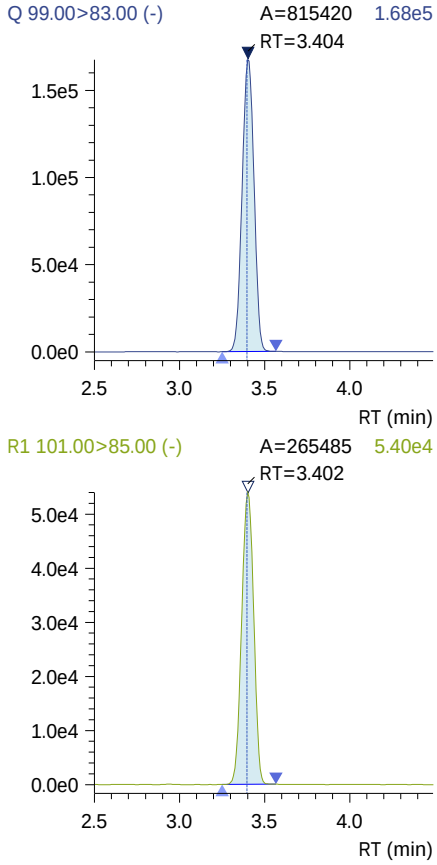
E2300225-001

Sample ID: E2300225-001
Date Acquired: 3/9/2023 9:55:10 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230309\20230309-011.lcd
Vial: 30 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.404	8154 20	150048	39.2 273	ng/mL	101.00 >85.00	32.56	22.83 -42.39
Sodium Perchlorate-18O4_IS	Auto	3.399	1500 48	150048	1.0000	ng/mL	----	----	

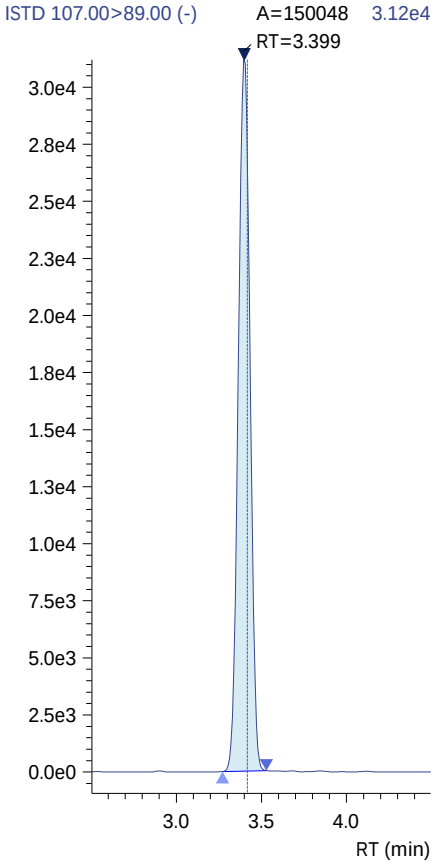
Perchlorate

Conc 39.2273
R#1 32.56 (32.61)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/9/2023 11:22:03 AM

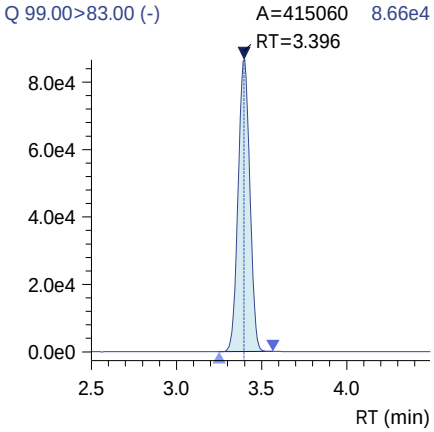
E2300225-002X200

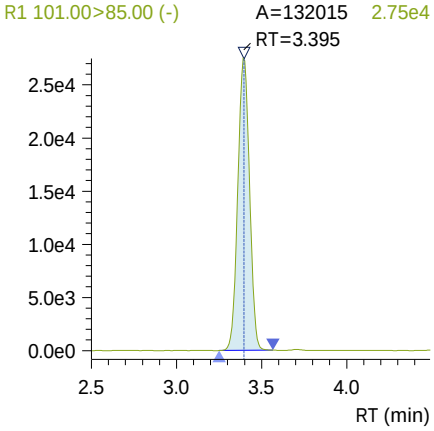
Sample ID: E2300225-002X200
Date Acquired: 3/9/2023 10:00:55 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230309\20230309-012.lcd
Vial: 31 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.396	4150 60	175431	17.0 782	ng/mL	101.00 >85.00	31.81	22.83 -42.39
Sodium Perchlorate-18O4_IS	Auto	3.393	1754 31	175431	1.0000	ng/mL	----	----	

Perchlorate

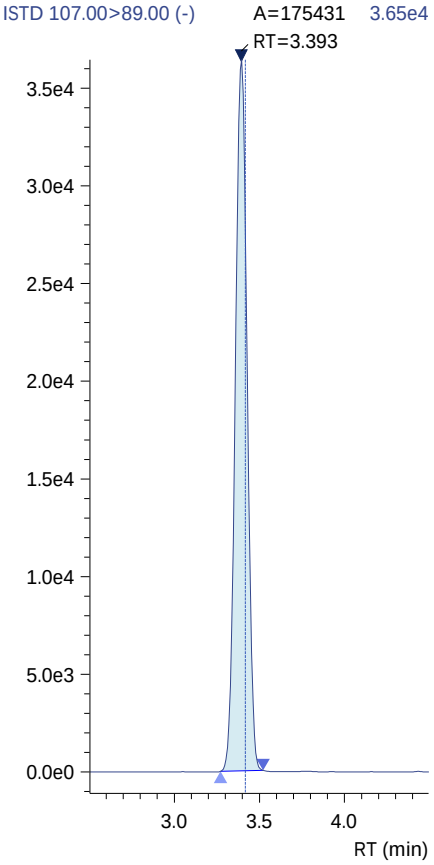
Conc 17.0782
R#1 31.81 (32.61)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/9/2023 11:22:03 AM

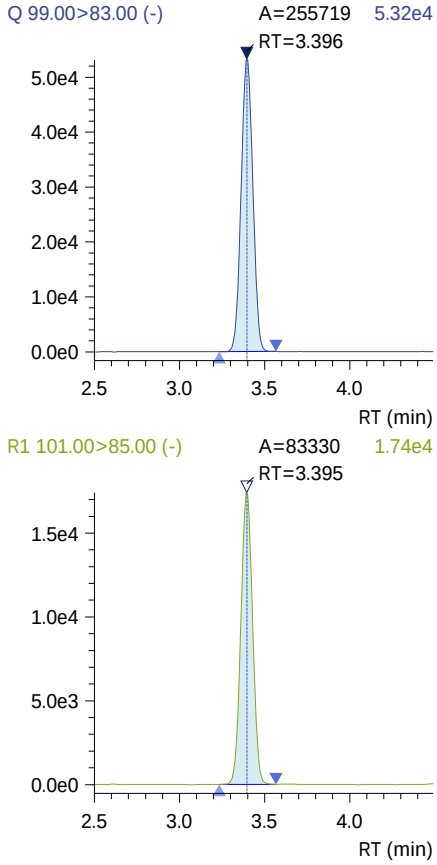
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 3/9/2023 10:06:41 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230309\20230309-013.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.396	255719	195289	9.4519	ng/mL	101.00 >85.00	32.59	22.83 -42.39
Sodium Perchlorate-18O4_IS	Auto	3.394	195289	195289	1.0000	ng/mL	----	----	

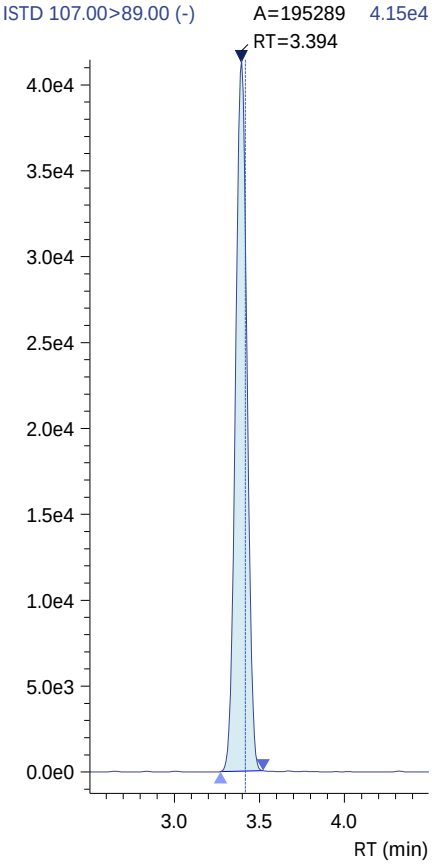
Perchlorate

Conc 9.4519
R#1 32.59 (32.61)



Sodium Perchlorate-18O4_IS

Conc 1.0000



HS23030817 Longhorn GW Treatment Plant
Weekly Samples Cover Page

ALS WO# HS23030817

ALS Environmental
ALS Group USA, Corp
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T : +1 281 530 5656
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www.alsglobal.com

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  - LH18/24-SP650_031423_AIX
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Accuracy and Precision
Initial Calibration
Chromatograms and Selected Ion Monitoring

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F: +1 281 530 5887
alsglobal.com

right solutions.
right partner.

WorkOrder: HS23030817

Longhorn GW Treatment Plant Weekly Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

30-Mar-2023

HS23030817 Longhorn GW Treatment Plant Weekly Samples Final

ALS WO# HS23030817

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

March 29, 2023

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS23030817**

Laboratory Results for: **Longhorn GW Treatment Plant Weekly Samples**

Dear Marcia Olive,

ALS Environmental received 3 sample(s) on Mar 15, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Dane J. Wacasey

ALS Houston, US Date: 29-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS23030817

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23030817-01	LH18/24-SP650_031423	Water		14-Mar-2023 13:00	15-Mar-2023 09:45	☐
HS23030817-02	LH18/24-SP650_031423_AIX	Water		14-Mar-2023 13:00	15-Mar-2023 09:45	☐
HS23030817-03	LH18/24-SP650_031423_BIX	Water		14-Mar-2023 13:00	15-Mar-2023 09:45	☐

ALS Houston, US Date: 29-Mar-23

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS23030817

Work Order Comments

- The analysis for Perchlorate was subcontracted to ALS Houston High-Res Lab. Final report attached

WetChemistry by Method E350.3

Batch ID: R430928

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E415.1

Batch ID: R430383

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E365.3

Batch ID: R430279

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US

Date: 29-Mar-23

Client: Bhate Environmental Associates, Inc.

ANALYTICAL REPORT

Project: Longhorn GW Treatment Plant Weekly Samples

WorkOrder:HS23030817

Sample ID: LH18/24-SP650_031423

Lab ID:HS23030817-01

Collection Date: 14-Mar-2023 13:00

Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
AMMONIA AS N BY E350.3(ISE)		**Method:E350.3**						Analyst: MZD
Nitrogen, Ammonia (As N)	**15**	a	**0.10**	**0.10**	**0.20**	**mg/L**	1	23-Mar-2023 15:52
ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978		**Method:E365.3**						Analyst: MZD
Phosphorus, Total Orthophosphate (As P)	**8.27**	a	**0.100**	**0.125**	**0.250**	**mg/L**	10	16-Mar-2023 09:38
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: JAC
Organic Carbon, Total	**12.0**	a	**0.500**	**1.00**	**1.00**	**mg/L**	1	18-Mar-2023 05:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 29-Mar-23

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder:HS23030817
Sample ID: LH18/24-SP650_031423_AIX
Lab ID:HS23030817-02
Collection Date: 14-Mar-2023 13:00
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See attached		0	0	0	NA	1	16-Mar-2023 10:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 29-Mar-23

ANALYTICAL REPORT

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
Sample ID: LH18/24-SP650_031423_BIX
Collection Date: 14-Mar-2023 13:00

WorkOrder:HS23030817
Lab ID:HS23030817-03
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See attached		0	0	0	NA	1	16-Mar-2023 10:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 29-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS23030817

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R430279 (0)	**Test Name :** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978				**Matrix:** Water	
HS23030817-01	LH18/24-SP650_031423	14 Mar 2023 13:00			16 Mar 2023 09:38	10
Batch ID: R430383 (0)	**Test Name :** TOTAL ORGANIC CARBON BY E415.1				**Matrix:** Water	
HS23030817-01	LH18/24-SP650_031423	14 Mar 2023 13:00			18 Mar 2023 05:04	1
Batch ID: R430928 (0)	**Test Name :** AMMONIA AS N BY E350.3(ISE)				**Matrix:** Water	
HS23030817-01	LH18/24-SP650_031423	14 Mar 2023 13:00			23 Mar 2023 15:52	1
Batch ID: R431218 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS23030817-02	LH18/24-SP650_031423_AIX	14 Mar 2023 13:00			16 Mar 2023 10:07	1
HS23030817-03	LH18/24-SP650_031423_BIX	14 Mar 2023 13:00			16 Mar 2023 10:07	1

ALS Houston, US Date: 29-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS23030817

QC BATCH REPORT

Batch ID: R430279 (0) **Instrument:** UV-2450 **Method:** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978

MBLK Sample ID: **MBLK-R430279** Units: **mg/L** Analysis Date: **16-Mar-2023 09:38**
Client ID: Run ID: **UV-2450_430279** SeqNo: **7178950** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.0125	0.0250								U

LCS Sample ID: **LCS-R430279** Units: **mg/L** Analysis Date: **16-Mar-2023 09:38**
Client ID: Run ID: **UV-2450_430279** SeqNo: **7178949** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.234	0.0250	0.25	0	93.6	85 - 115				

LCSD Sample ID: **LCSD-R430279** Units: **mg/L** Analysis Date: **16-Mar-2023 09:38**
Client ID: Run ID: **UV-2450_430279** SeqNo: **7178973** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.234	0.0250	0.25	0	93.6	85 - 115	0.234	0	20	

MS Sample ID: **HS23030801-02MS** Units: **mg/L** Analysis Date: **16-Mar-2023 09:38**
Client ID: Run ID: **UV-2450_430279** SeqNo: **7178952** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.29	0.0250	0.25	-0.01	120	80 - 120				

MSD Sample ID: **HS23030801-02MSD** Units: **mg/L** Analysis Date: **16-Mar-2023 09:38**
Client ID: Run ID: **UV-2450_430279** SeqNo: **7178951** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.29	0.0250	0.25	-0.01	120	80 - 120	0.29	0	20	

The following samples were analyzed in this batch: HS23030817-01

ALS Houston, US Date: 29-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS23030817

QC BATCH REPORT

Batch ID: R430383 (0) **Instrument: TOC_04** **Method: TOTAL ORGANIC CARBON BY E415.1**

MBLK Sample ID: **MBLK-03172023** Units: **mg/L** Analysis Date: **18-Mar-2023 04:24**
Client ID: Run ID: **TOC_04_430383** SeqNo: **7181132** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	1.00	1.00								U

LCS Sample ID: **LCS-03172023** Units: **mg/L** Analysis Date: **18-Mar-2023 04:37**
Client ID: Run ID: **TOC_04_430383** SeqNo: **7181133** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.16	1.00	10	0	102	85 - 115				

LCSD Sample ID: **LCSD-03172023** Units: **mg/L** Analysis Date: **18-Mar-2023 04:51**
Client ID: Run ID: **TOC_04_430383** SeqNo: **7181134** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.14	1.00	10	0	101	85 - 115	10.16	0.197	20	

MS Sample ID: **HS23030817-01MS** Units: **mg/L** Analysis Date: **18-Mar-2023 05:18**
Client ID: **LH18/24-SP650_031423** Run ID: **TOC_04_430383** SeqNo: **7181136** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	22.15	1.00	10	11.96	102	80 - 120				

The following samples were analyzed in this batch: HS23030817-01

ALS Houston, US Date: 29-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS23030817

QC BATCH REPORT

Batch ID: R430928 (0) **Instrument: WetChem_HS** **Method: AMMONIA AS N BY E350.3(ISE)**

MBLK Sample ID: **MBLK-R430928** Units: **mg/L** Analysis Date: **23-Mar-2023 15:52**
Client ID: Run ID: **WetChem_HS_430928** SeqNo: **7194206** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	0.10	0.20								U

LCS Sample ID: **LCS-R430928** Units: **mg/L** Analysis Date: **23-Mar-2023 15:52**
Client ID: Run ID: **WetChem_HS_430928** SeqNo: **7194205** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	8.651	0.20	10	0	86.5	80 - 120				

MS Sample ID: **HS23030990-01MS** Units: **mg/L** Analysis Date: **23-Mar-2023 15:52**
Client ID: Run ID: **WetChem_HS_430928** SeqNo: **7194219** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	14.55	0.20	10	2.712	118	80 - 120				

MSD Sample ID: **HS23030990-01MSD** Units: **mg/L** Analysis Date: **23-Mar-2023 15:52**
Client ID: Run ID: **WetChem_HS_430928** SeqNo: **7194218** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	14.55	0.20	10	2.712	118	80 - 120	14.55	0	20	

The following samples were analyzed in this batch: HS23030817-01

ALS Houston, US Date: 29-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: **HS23030817**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
California	2919 2022-2023	30-Apr-2023
Dept of Defense	L21-682	31-Dec-2023
Florida	E87611-36	30-Jun-2023
Illinois	2000322022-9	09-May-2023
Kansas	E-10352; 2022-2023	31-Jul-2023
Kentucky	123043, 2022-2023	30-Apr-2023
Louisiana	03087, 2022-2023	30-Jun-2023
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2022-2023	30-Apr-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-22-29	30-Apr-2023
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US Date: 29-Mar-23

Sample Receipt Checklist

Work Order ID: HS23030817 **Date/Time Received:** 15-Mar-2023 09:45

Client Name: Bhate Environmental **Received by:** Corey Grandits

Completed By: /S/ Corey Grandits (eSignature) 15-Mar-2023 11:42 (Date/Time) **Reviewed by:** /S/ Dane J. Wacasey (eSignature) 15-Mar-2023 18:08 (Date/Time)

Matrices: W Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	2.9UC/2.4C	IR31
Cooler(s)/Kit(s):	50196	
Date/Time sample(s) sent to storage:	3/15/23	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

HS23030817

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd. Suite 210 Houston, TX. 77099 (281) 530-5656 ATTN: Dane Wacasey

Bhate Environmental Associates, Inc.
Longhorn GW Treatment Plant Weekly Samples

Project: BHATE LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. NWO1312.0150.0 16.0001
Job: **GROUNDWATER TREATMENT PLANT WEEKLY SAMPLES**	
Prepared By: Scott Beesinger	P.O. Number

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	AMMONIA-N	TOTAL ORGANIC CARBON	ORTHO-PHOSPHATE	PERCHLORATE							Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_031423	Water	03/14/23 / 13:00		3	X	X									H2SO4	
LH18/24-SP650_031423	Water	03/14/23 / 13:00		1			X								NONE	
LH18/24–SP650_031423_AIX	Water	03/14/23 / 13:00		1				X							NONE	
LH18/24-SP650_031423_BIX	Water	03/14/23 / 13:00		1				X							NONE	

Additional Remarks: **24 HR. TAT on Perchlorate Samples. Standard TAT on all other parameters**

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	03/14/23	13:30		3.14.23	0645						

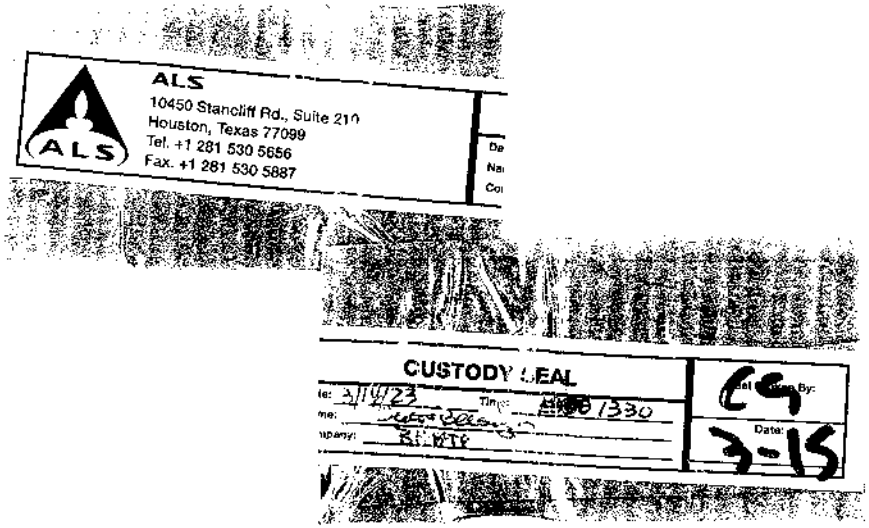
For Lab Use Only

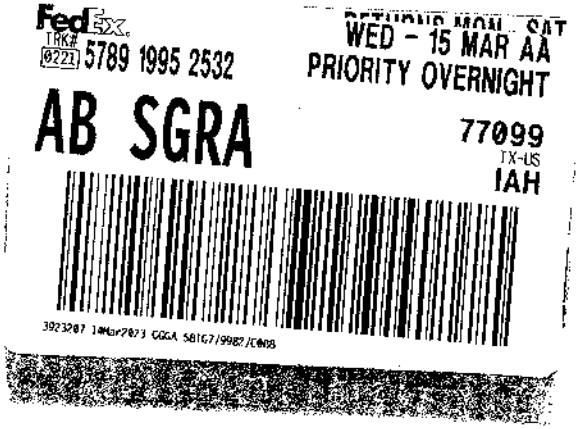
Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition

Remarks:

IR31 5096 2.9

(Word) S:\Users\Forms\Chain of Custody - BiWeekly


ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887
CUSTODY SEAL
3-15


FedEx
TRK# 0221 5789 1995 2532
WED - 15 MAR AA
PRIORITY OVERNIGHT
AB SGRA
77099
TX-US
IAH

March 16, 2023 Service Request No:E2300251

Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS23030817

Dear Dane,

Enclosed are the results of the sample(s) submitted to our laboratory March 15, 2023
For your reference, these analyses have been assigned our service request number **E2300251.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300251
Project:	HS23030817	**Date Received:**	03/15/23
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test. Report revised 03/29/23 to correct the prep start time to 08:20 and prep end time to 08:40.

Sample Receipt

Two samples were received for analysis at ALS Environmental in Houston on 03/15/23.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2300131: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2300251
Project: HS23030817

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300251-001	LH18/24-SP650_031423_AIX	3/14/2023	1300
E2300251-002	LH18/24-SP650_031423_BIX	3/14/2023	1300

Service Request Summary

Folder #: **E2300251**
Client Name: ALS Environmental - US
Project Name: HS23030817
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: JGUIN
Date Received: 03/15/23
Internal Due Date: 3/16/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23030817
EDD: BASIC_WQC_CASNo_LOD

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:
Rush

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2300251-001	LH18/24-SP650_031423_AIX	Water	03/14/23 1300	**IV**
E2300251-002	LH18/24-SP650_031423_BIX	Water	03/14/23 1300	**IV**

Service Request Summary

Folder #: **E2300251**
Client Name: ALS Environmental - US
Project Name: HS23030817
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: JGUIN
Date Received: 03/15/23
Internal Due Date: 3/16/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23030817
EDD: BASIC_WQC_CASNo_LOD

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:
Rush

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793	5/27/2023
Arkansas Department of Environmental Quality	22-041-0	3/27/2023
California Department of Health Services	2919-2023	4/30/2023
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Hawaii Department of Health	2022	4/30/2023
Illinois Environmental Protection Agency	2000322022-9	5/9/2023
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Michigan Depratment of Environmental Quality	9971-2022	4/30/2023
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2023
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209422	4/24/2023
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	11707	3/31/2023
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002	5/15/2023
Pennsylvania Department of Environmental Protection	68-03441-016	6/30/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	04016-2022	4/30/2023
Texas Commision on Environmental Quality	T104704231-22-29	4/30/2023
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

Chain of Custody

ALS Environmental - Houston HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

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Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **21127**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS23030817
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23030817-02**	**LH18/24-SP650_031423_AIX**	**Water**	**14 Mar 2023 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			16 Mar 2023
2.	**HS23030817-03**	**LH18/24-SP650_031423_BIX**	**Water**	**14 Mar 2023 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			16 Mar 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: CG Date/Time: 03/15/23 1150

Received By: Date/Time: 03/15/23 1155

Cooler ID(s): Temperature(s):

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Environmental

Cooler Receipt Form

Project Chemist JG

Client/Project A/S Houston

Thermometer ID IR31

Date/Time Received: 03/15/23 1150 Initials: JG

Date/Time Logged in: 03/15/23 1200 Initials JG

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ○ Courier ✓ Client

2. Samples received in: ✓ Cooler ○ Box ○ Envelope ○ Other _____

3. Were custody seals on coolers? ✓ Yes ○ No

Were they intact? ✓ Yes ○ No ○ N/A

Were they signed and dated? ✓ Yes ○ No ○ N/A

If yes, how many and where?

4. Packing Material: ○ Inserts ○ Baggies ○ Bubble Wrap ○ Gel Packs ✓ Wet Ice ○ Sleeves ○ Other _____

5. Foreign or Regulated Soil? ○ Yes ○ No Location of Sampling: _____

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
		03/15/23	1150	CG		☐
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ✓ Yes ○ No

7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ✓ Yes ○ No

8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ✓ Yes ○ No

9. Were appropriate bottles/containers and volumes received for the requested tests? ✓ Yes ○ No

10. Did sample labels and tags agree with custody documents? ✓ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label:

HS-HRMSCoolerReceipt R1.0

ALS Environmental - Houston HRMS

10450 Stancliff Rd., Suite 210
Houston, TX 77099
T: +1 713 266 1599
F: +1 713 266 1599
www.alsglobal.com

SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 416556 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 3/16/23 08:20

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300238-001	130_030923	.01	6850/ClO4 DOD			Water	10mL	
2	E2300238-002	130_030923_a	.01	6850/ClO4 DOD			Water	10mL	
3	E2300238-003	17WW03_030923	.01	6850/ClO4 DOD			Water	10mL	
4	E2300238-004	17WW01_030923	.02	6850/ClO4 DOD			Water	10mL	
5	E2300238-005	17WW02_030923	.01	6850/ClO4 DOD			Water	10mL	
6	E2300238-006	17WW06_030923	.01	6850/ClO4 DOD			Water	10mL	
7	E2300241-001	RSA-195-INT-07	.01	6850/ClO4 DOD			Water	10mL	
8	E2300241-002	RSA-195-INT-06	.01	6850/ClO4 DOD			Water	10mL	
9	E2300241-003	RSA-FB-06-080323	.01	6850/ClO4 DOD			Water	10mL	
10	E2300241-004	RSA-EB-06-080323	.01	6850/ClO4 DOD			Water	10mL	
11	E2300241-005	RSA-094-INT-01	.01	6850/ClO4 DOD			Water	10mL	
12	E2300251-001	LH18/24-SP650_031423_AIX	.01	6850/ClO4 DOD			Water	10mL	
13	E2300251-002	LH18/24-SP650_031423_BIX	.01	6850/ClO4 DOD			Water	10mL	
14	EQ2300131-01	LCS		6850/ClO4 DOD			Liquid	10mL	
15	EQ2300131-02	DLCS		6850/ClO4 DOD			Liquid	10mL	
16	EQ2300131-03	MB		6850/ClO4 DOD			Liquid	10mL	
17	EQ2300131-04	17WW01_030923 MS	.02	6850/ClO4 DOD			Liquid	10mL	
18	EQ2300131-05	17WW01_030923 DMS	.02	6850/ClO4 DOD			Liquid	10mL	
19	K2302951-001	LGAC-INT1-031323	.01	6850/ClO4			Water	10mL	

Spiking Solutions

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 226778 Logbook Ref: Perchlorate Internal Standard Expires On: 05/31/2023

E2300238-001	100.00µL	E2300238-002	100.00µL	E2300238-003	100.00µL	E2300238-004	100.00µL	E2300238-005	100.00µL	E2300238-006	100.00µL
E2300241-001	100.00µL	E2300241-002	100.00µL	E2300241-003	100.00µL	E2300241-004	100.00µL	E2300241-005	100.00µL	E2300251-001	100.00µL
E2300251-002	100.00µL	EQ2300131-01	100.00µL	EQ2300131-01	100.00µL	EQ2300131-02	100.00µL	EQ2300131-02	100.00µL	EQ2300131-03	100.00µL
EQ2300131-03	100.00µL	EQ2300131-04	100.00µL	EQ2300131-05	100.00µL	K2302951-001	100.00µL				

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300131-01	1.00µL	EQ2300131-01	1.00µL	EQ2300131-02	1.00µL	EQ2300131-02	1.00µL	EQ2300131-04	1.00µL	EQ2300131-05	1.00µL

Preparation Materials

Water HPLC Grade	02/16/2023 Water (227655)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 0.45um syringe filters	6850 Syringe Filters (224414)
6850 Luer-Lok Syringes	Luer-Lok Syringes (221305)				

Preparation Information Benchsheet

Prep Run#: 416556 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** **Prep Date/Time:** 3/16/23 08:20

Preparation Steps

Step: Preparation
Started: 3/16/23 08:20
Finished: 3/16/23 08:40
By: XMI
Comments

Comments: _____

Reviewed By: XMI Date: 03/16/23

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300251
Project:	HS23030817	**Date Collected:**	3/14/23 1300
Sample Matrix:	Water	**Date Received:**	3/15/23
Sample Name:	LH18/24-SP650_031423_AIX	**Units:**	µg/L
Lab Code:	E2300251-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0764**	J	0.100	0.0500	0.0250	1	3/16/23	3/16/23 10:07	416556	797870	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300251
Project:	HS23030817	**Date Collected:**	3/14/23 1300
Sample Matrix:	Water	**Date Received:**	3/15/23
Sample Name:	LH18/24-SP650_031423_BIX	**Units:**	µg/L
Lab Code:	E2300251-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**24.0**		0.100	0.0500	0.0250	1	3/16/23	3/16/23 10:12	416556	797870	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300251
Project:	HS23030817	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300131-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	3/16/23	3/16/23 10:01	416556	797870	

Accuracy & Precision

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300251
Project:	HS23030817	**Date Analyzed:**	3/16/23
Sample Matrix:	Water		

Lab Control Sample Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method:	6850	**Units:**	µg/L
Prep Method:	Method	**Basis:**	NA
		Extraction Lot:	416556

	Lab Control Sample EQ2300131-01			Duplicate Lab Control Sample EQ2300131-02					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.103	0.100	103	0.0972	0.100	97	84 - 119	5	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300251
Project:	HS23030817	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300131-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.103**		0.100	0.0500	0.0250	1	3/16/23	3/16/23 12:21	416556	797870	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300251
Project:	HS23030817	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300131-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0972**	J	0.100	0.0500	0.0250	1	3/16/23	3/16/23 09:55	416556	797870	

HS23030817 Wet Chemistry

ALS WO# HS23030817

NIT_AMM_W ISE
HS2303O817

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Logbook **32115**

Ion Selective Electrode Logbook

Analyst: AB / MD	Date: 03/23/23
Method: SM4500NH3-D/EPA 350.3 or SM4500 NH3 B-F	

Probe Calibration Date: 03/23/23	Cal Std ID: 3211091 (09-B)	Probe ID: NH3-8	
Std Level	mV	Conc., mg/L:	Sodium Thiosulfate ID: 3120606219
STD 1 (mg/L): 0.2	142.7	0.202	Std Level / mV / Conc., mg/L:
STD 2 (mg/L): 1	129.7	0.996	STD 4 (mg/L): 69.3 / 9.988
STD 3 (mg/L): 5	89.5	5.020	STD 5 (mg/L): 29.0 / 50.057
LSC / MS Spike ID: 3120607123			ICAL Date & Slope: 95.0% / -56.0
ICV Cal STD ID: 3211091			
DPD Reagent ID: 3120606913			

WO # / SX #	Bottle #	Initial g or ml	Final Vol. ml	Dilution Factor	Initial Conc. mg/L	Final Conc. mg/L	Chlorine Check (+/–)	Comments
CCV		50mL	50mL		10.076			
CCB					0.008			
MBLK					0.009			
LCS					8.651			
HS2303O934-02		5 mL	50mL	10X	0.392		+	
934-05					0.276		+	
934-08					0.379		+	
934-11					0.360		+	
934-14					0.365		+	
934-17					0.323		+	
823-01		50mL	50mL		1.923		-ve	
990 ~~823 MS~~		50mL	50mL		2.712		-ve	
CCV 2					9.821			
CCB 2					0.007			
HS2303990-~~823~~ MSD					14.547		-ve	
934-20		5mL	50mL	10X	0.294		-ve	
934-23					0.315		-ve	
1108-02		50mL	60mL		3.306		-ve	
1108-05					2.899		-ve	
CCV3					9.781		-ve	
CCB3					0.007			
990-01 MS					14.547		-ve	
CCV4					9.781			
CCB4					0.007			

Batch ID: WG1643999	Reported By	Reviewed By:

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NIT_Anm_w - 63 50.3 ISE

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Logbook **32115**

Ion Selective Electrode Logbook

Analyst:					Date:		
Method: SM4500NH3-D/EPA 350.3 or SM4500 NH3 B-F							
Probe Calibration Date:		Cal Std ID:			Probe ID:		
Std Level		mV	Conc., mg/L:		Sodium Thiosulfate ID:		
STD 1 (mg/L):					Std Level	mV	Conc., mg/L:
STD 2 (mg/L):					STD 4 (mg/L):		
STD 3 (mg/L):					STD 5 (mg/L):		
LSC / MS Spike ID:					ICAL Date & Slope:		
ICV Cal STD ID:							
DPD Reagent ID:							

WO # / SX #	Bottle #	Initial g or ml	Final Vol. ml	Dilution Factor	Initial Conc. mg/L	Final Conc. mg/L	Chlorine Check (+/ –)	Comments
CCV					9.387			
CCB					0.007			
~~MBLK~~		50mL	50mL		~~0.009~~	AB	03/23/23	
8M-09					15.175			
CCV 2					9.678			
CCB 2					0.008			

Batch ID:	Reported By	Reviewed By:

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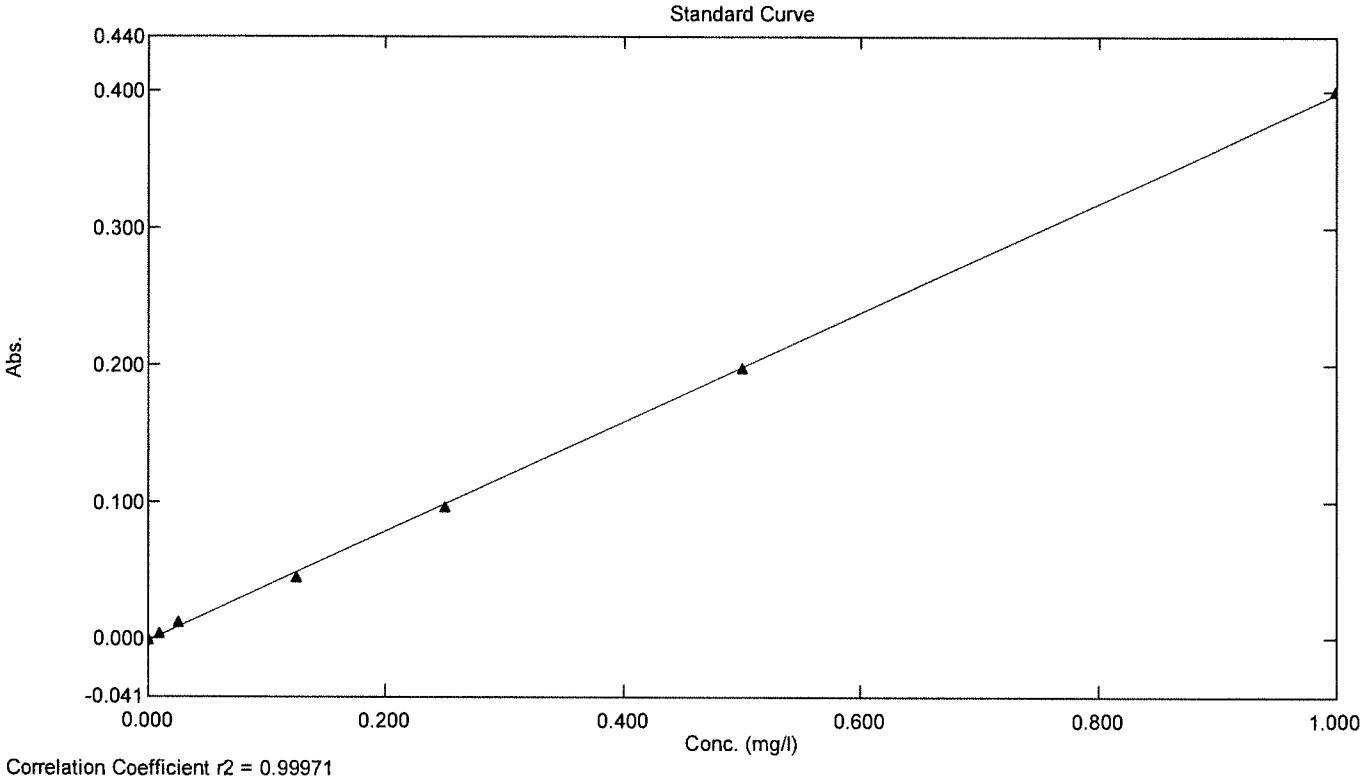
HS230308I7

Standard Table Report

03/17/2023 05:21:51 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO (365.3 METHOD)\2023\03162023_P_ORTHO_W.pho



Correlation Coefficient r2 = 0.99971

Standard Table

	Sample ID	Type	Ex	Conc	WL650.0	Wgt.Factor	Comments
1	STD1	Standard		0.000	-0.000	1.000	
2	STD2	Standard		0.010	0.005	1.000	
3	STD3	Standard		0.025	0.012	1.000	
4	STD4	Standard		0.125	0.045	1.000	
5	STD5	Standard		0.250	0.096	1.000	
6	STD6	Standard		0.500	0.197	1.000	
7	STD7	Standard		1.000	0.400	1.000	
8							

Sample Table Report

03/17/2023 05:21:53 PM

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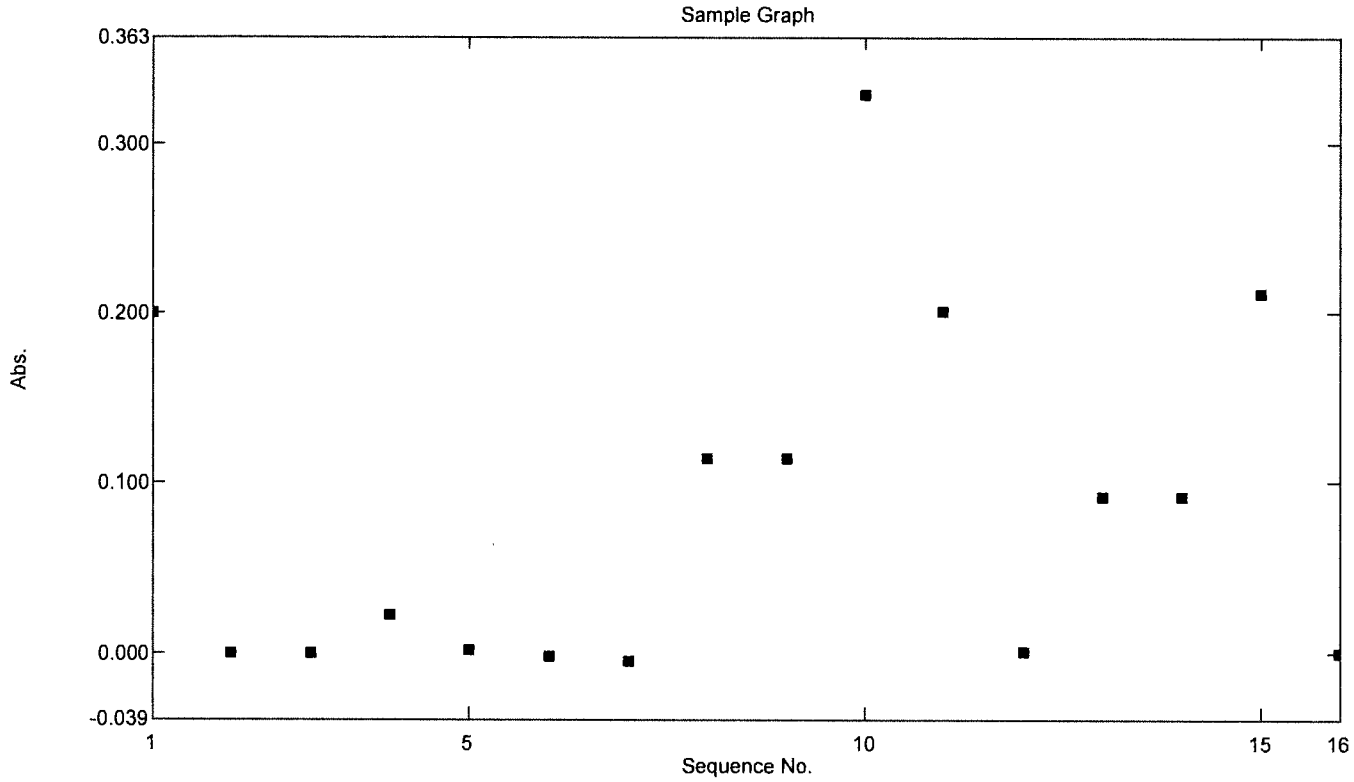


Sample Table

	Sample ID	Date	Time	Conc	WL650.	Comments
1	CCV	03/16/2023	09:38:46 AM	0.503	0.200	321103702 WC-20
2	CCB	03/16/2023	09:38:53 AM	0.003	0.000	
3	MBLK	03/16/2023	09:38:55 AM	0.003	0.000	
4	LOQ	03/16/2023	09:39:39 AM	0.058	0.022	A-321100712 WC-20
5	HS23030766.13	03/16/2023	09:40:59 AM	0.008	0.002	AS-321103703 WC-20
6	HS23030801.01	03/16/2023	09:41:18 AM	-0.001	-0.002	
7	HS23030801.02	03/16/2023	09:41:36 AM	-0.010	-0.005	
8	HS23030801.02MS	03/16/2023	09:42:19 AM	0.290	0.115	
9	HS23030801.02MSD	03/16/2023	09:42:21 AM	0.290	0.115	
10	HS23030817.01	03/16/2023	09:43:09 AM	0.827	0.329	PF:10X
11	CCV2	03/16/2023	09:43:24 AM	0.506	0.201	
12	CCB2	03/16/2023	09:43:30 AM	0.004	0.000	
13	LCS	03/17/2023	09:42:19 AM	0.234	0.092	
14	LCSD	03/17/2023	09:42:21 AM	0.234	0.092	
15	CCV3	03/17/2023	09:42:34 AM	0.532	0.211	
16	CCB3	03/17/2023	09:42:49 AM	0.003	-0.000	
17						

C:\TOC-L\Data\2022_12_22_001_CAL.tlx

HS23030817

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Standard	NPOC	CAL	3100606518	12_22_2022	1.000		
2	Unknown	NPOC	ICV	3100606203	12_22_2022	1.000	NPOC:10.45mg/L	
3	Unknown	NPOC	ICB		12_22_2022	1.000	NPOC:0.3762mg/	

C:\TOC-L\Data\2022_12_22_001_CAL.tlx

	Status	Date / Time	Vial
1	Completed	12/22/2022 1:40:24	1, 2, 3, 4, 5,
2	Completed	12/22/2022 1:53:55	8
3	Completed	12/22/2022 2:06:25	1

TOC-Control L Report

2022_12_22_001_CAL.tlx

Instr.Information

Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Cal. Curve

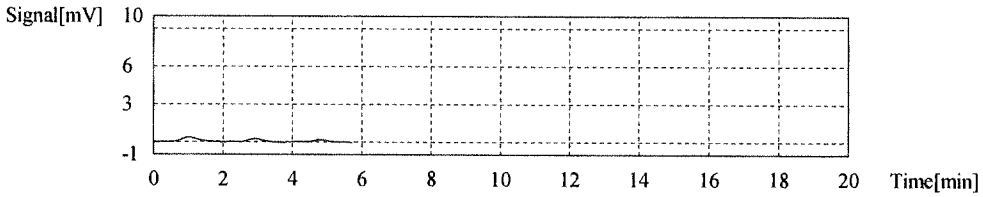
Sample Name:	CAL
Sample ID:	3100606518
Cal. Curve:	12_22_2022_CAL.2022_12_22_12_06_45.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.9953	50uL	1.000	*******		12/22/2022 12:15:19 PM
2	0.6996	50uL	1.000	*******		12/22/2022 12:17:28 PM
3	0.3943	50uL	1.000	*******		12/22/2022 12:19:35 PM

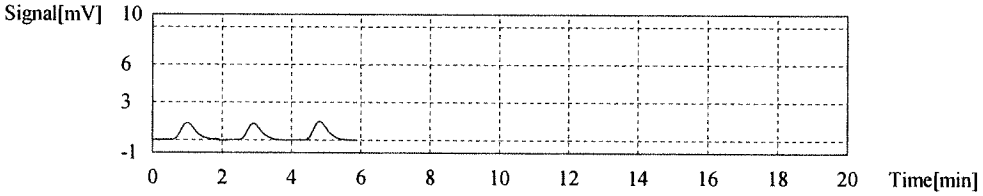
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	0.6964



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	3.828	50uL	1.000	*******		12/22/2022 12:27:39 PM
2	3.692	50uL	1.000	*******		12/22/2022 12:29:46 PM
3	4.395	50uL	1.000	*******		12/22/2022 12:32:03 PM

Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	3.972



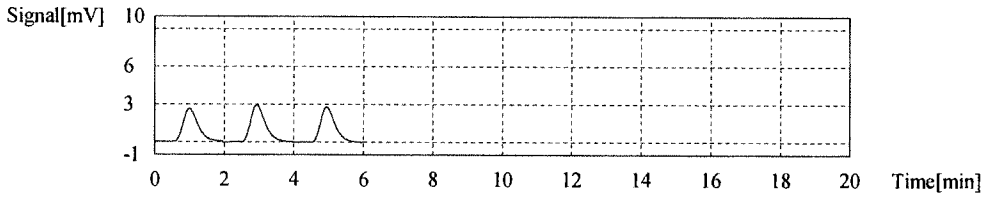
Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.632	50uL	1.000	*******		12/22/2022 12:40:09 PM
2	8.569	50uL	1.000	*******		12/22/2022 12:42:24 PM
3	8.142	50uL	1.000	*******		12/22/2022 12:44:38 PM

TOC-Control L Report

2022_12_22_001_CAL.tlx

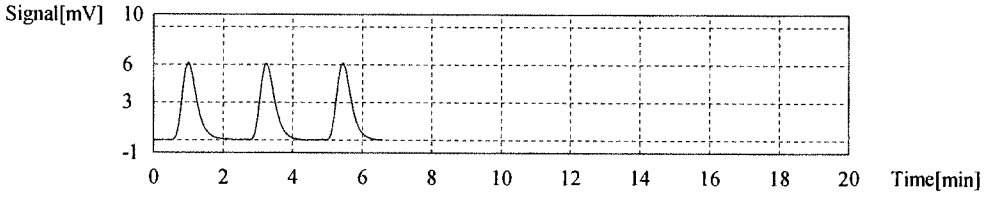
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	8.114



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	18.24	50uL	1.000	*******		12/22/2022 12:53:02 PM
2	18.17	50uL	1.000	*******		12/22/2022 12:55:30 PM
3	18.13	50uL	1.000	*******		12/22/2022 12:57:50 PM

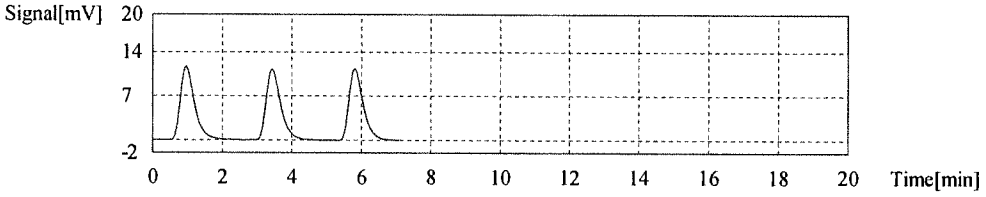
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	18.18



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	33.16	50uL	1.000	*******		12/22/2022 1:06:28 PM
2	32.94	50uL	1.000	*******		12/22/2022 1:09:05 PM
3	32.73	50uL	1.000	*******		12/22/2022 1:11:32 PM

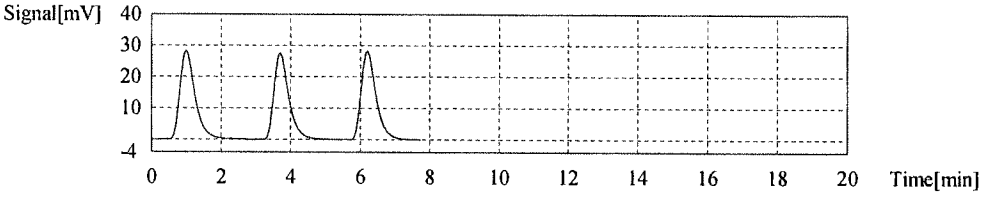
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	32.94



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	85.96	50uL	1.000	*******		12/22/2022 1:20:24 PM
2	82.23	50uL	1.000	*******		12/22/2022 1:23:09 PM
3	84.99	50uL	1.000	*******		12/22/2022 1:25:54 PM

Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	84.39



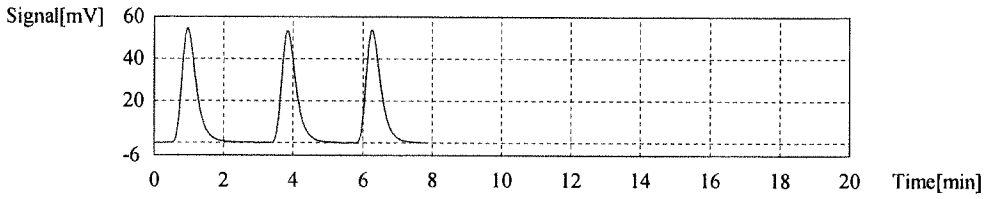
Conc: 50.00mg/L

TOC-Control L Report

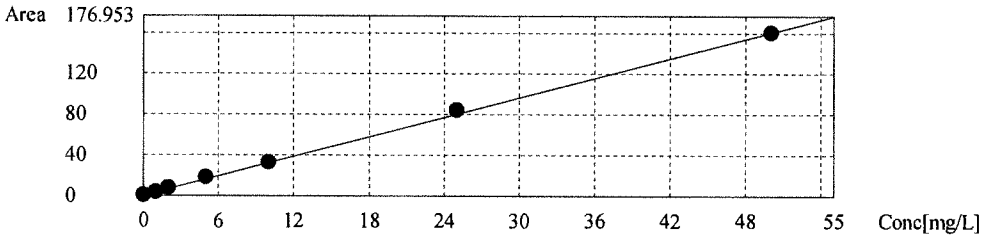
2022_12_22_001_CAL.tlx

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	162.0	50uL	1.000	*******		12/22/2022 1:34:55 PM
2	160.0	50uL	1.000	*******		12/22/2022 1:37:37 PM
3	160.6	50uL	1.000	*******		12/22/2022 1:40:24 PM

Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 160.9



Slope: 3.212
Intercept 0.000
r^2 0.9995
r 0.9998
RSE(%) N/A
Zero Shift Yes



Sample

Sample Name: ICV
Sample ID: 3100606203
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

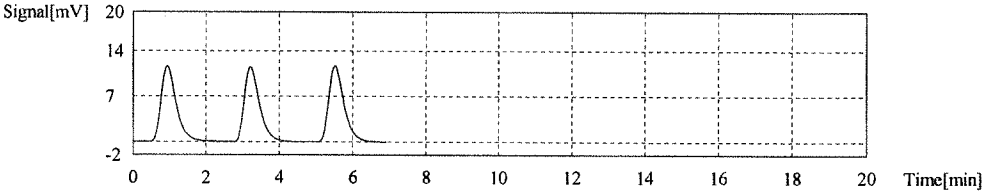
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.45mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	33.43	10.41mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	12/22/2022 1:48:50 PM
2	33.28	10.36mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	12/22/2022 1:51:22 PM
3	33.98	10.58mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	12/22/2022 1:53:55 PM

Mean Area 33.56
Mean Conc. 10.45mg/L



Sample

TOC-Control L Report

2022_12_22_001_CAL.tlx

Sample Name: ICB
Sample ID:
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

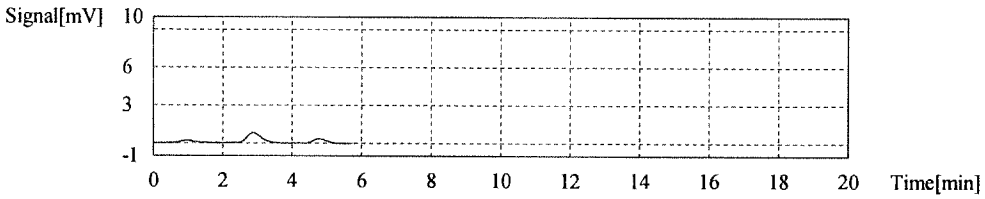
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3762mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3846	0.1197mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	12/22/2022 2:02:10 PM
2	2.321	0.7226mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	12/22/2022 2:04:18 PM
3	0.9197	0.2863mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	12/22/2022 2:06:25 PM

Mean Area 1.208
Mean Conc. 0.3762mg/L



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	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Unknown	NPOC	CCV	321104002	12_22_2022	1.000	NPOC:25.17mg/L	
2	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.1039mg/	
3	Unknown	NPOC	MBLK-03172023		12_22_2022	1.000	NPOC:0.08241mg	
4	Unknown	NPOC	LCS-03172023	31006606923	12_22_2022	1.000	NPOC:9.775mg/L	
5	Unknown	NPOC	LCSD-03172023		12_22_2022	1.000	NPOC:9.910mg/L	
6	Unknown	NPOC	HS23030832-02		12_22_2022	1.000	NPOC:0.4011mg/	
7	Unknown	NPOC	HS23030832-02MS		12_22_2022	1.000	NPOC:10.47mg/L	
8	Unknown	NPOC	HS23030832-03		12_22_2022	1.000	NPOC:0.5023mg/	
9	Unknown	NPOC	HS23030832-04		12_22_2022	1.000	NPOC:53.15mg/L	
10	Unknown	NPOC	HS23030835-02		12_22_2022	1.000	NPOC:28.93mg/L	
11	Unknown	NPOC	HS23030835-03		12_22_2022	1.000	NPOC:2.502mg/L	
12	Unknown	NPOC	HS23030835-04		12_22_2022	1.000	NPOC:0.7002mg/	
13	Unknown	NPOC	CCV	321104002	12_22_2022	1.000	NPOC:24.88mg/L	
14	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.1176mg/	
15	Unknown	NPOC	HS23030835-05		12_22_2022	1.000	NPOC:0.3782mg/	
16	Unknown	NPOC	HS23030925-02		12_22_2022	1.000	NPOC:0.4714mg/	
17	Unknown	NPOC	HS23030925-03		12_22_2022	1.000	NPOC:2.446mg/L	
18	Unknown	NPOC	HS23030925-04		12_22_2022	1.000	NPOC:1.026mg/L	
19	Unknown	NPOC	CCV	321104002	12_22_2022	1.000	NPOC:24.65mg/L	
20	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.2035mg/	
21	Unknown	NPOC	MBLK-03172023		12_22_2022	1.000	NPOC:0.1157mg/	
22	Unknown	NPOC	LCS-03172023	31006606923	12_22_2022	1.000	NPOC:10.13mg/L	
23	Unknown	NPOC	LCSD-03172023		12_22_2022	1.000	NPOC:10.16mg/L	
24	Unknown	NPOC	HS23030925-05		12_22_2022	1.000	NPOC:1.213mg/L	
25	Unknown	NPOC	HS23030925-05MS		12_22_2022	1.000	NPOC:11.17mg/L	
26	Unknown	NPOC	HS23030925-06		12_22_2022	1.000	NPOC:0.8294mg/	
27	Unknown	NPOC	HS23030929-02		12_22_2022	1.000	NPOC:0.5712mg/	
28	Unknown	NPOC	HS23030929-03		12_22_2022	1.000	NPOC:0.6940mg/	
29	Unknown	NPOC	HS23030929-04		12_22_2022	1.000	NPOC:0.4789mg/	
30	Unknown	NPOC	HS23030929-05		12_22_2022	1.000	NPOC:0.7824mg/	
31	Unknown	NPOC	CCV	321104002	12_22_2022	1.000	NPOC:24.56mg/L	
32	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.2037mg/	
33	Unknown	NPOC	HS23030929-06		12_22_2022	1.000	NPOC:1.066mg/L	
34	Unknown	NPOC	HS23030497-01		12_22_2022	1.000	NPOC:14.36mg/L	
35	Unknown	NPOC	HS23030497-02		12_22_2022	1.000	NPOC:0.9036mg/	
36	Unknown	NPOC	HS23030497-03		12_22_2022	1.000	NPOC:10.06mg/L	
37	Unknown	NPOC	CCV	321104002	12_22_2022	1.000	NPOC:25.09mg/L	
38	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.1676mg/	
39	Unknown	NPOC	MBLK-03172023		12_22_2022	1.000	NPOC:0.1100mg/	
40	Unknown	NPOC	LCS-03172023	31006606923	12_22_2022	1.000	NPOC:10.16mg/L	
41	Unknown	NPOC	LCSD-03172023		12_22_2022	1.000	NPOC:10.14mg/L	
42	Unknown	NPOC	HS23030817-01		12_22_2022	1.000	NPOC:11.96mg/L	
43	Unknown	NPOC	HS23030817-01MS		12_22_2022	1.000	NPOC:22.15mg/L	
44	Unknown	NPOC	HS23030681-09		12_22_2022	1.000	NPOC:9.854mg/L	
45	Unknown	NPOC	HS23030845-01		12_22_2022	1.000	NPOC:16.59mg/L	
46	Unknown	NPOC	HS23030845-02		12_22_2022	1.000	NPOC:20.28mg/L	
47	Unknown	NPOC	HS23030845-03		12_22_2022	1.000	NPOC:13.27mg/L	
48	Unknown	NPOC	HS23030845-04		12_22_2022	1.000	NPOC:109.0mg/L	
49	Unknown	NPOC	CCV	321104002	12_22_2022	1.000	NPOC:25.99mg/L	
50	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.3858mg/	
51	Unknown	NPOC	HS23030845-05		12_22_2022	1.000	NPOC:114.7mg/L	

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	Status	Date / Time	Vial
1	Completed	3/17/2023 8:12:33	1
2	Completed	3/17/2023 8:24:50	2
3	Completed	3/17/2023 8:37:08	3
4	Completed	3/17/2023 8:50:11	4
5	Completed	3/17/2023 9:03:33	5
6	Completed	3/17/2023 9:15:50	6
7	Completed	3/17/2023 9:29:04	7
8	Completed	3/17/2023 9:41:20	8
9	Completed	3/17/2023 9:55:33	9
10	Completed	3/17/2023 10:09:40	10
11	Completed	3/17/2023 10:22:58	11
12	Completed	3/17/2023 10:36:24	12
13	Completed	3/17/2023 10:50:56	1
14	Completed	3/17/2023 11:03:17	2
15	Completed	3/17/2023 11:15:44	13
16	Completed	3/17/2023 11:28:03	14
17	Completed	3/17/2023 11:40:36	15
18	Completed	3/17/2023 11:52:59	16
19	Completed	3/18/2023 12:07:22	1
20	Completed	3/18/2023 12:19:42	2
21	Completed	3/18/2023 12:32:01	3
22	Completed	3/18/2023 12:45:21	4
23	Completed	3/18/2023 12:58:45	5
24	Completed	3/18/2023 1:11:13	17
25	Completed	3/18/2023 1:24:54	18
26	Completed	3/18/2023 1:37:14	19
27	Completed	3/18/2023 1:49:34	20
28	Completed	3/18/2023 2:01:54	21
29	Completed	3/18/2023 2:14:14	22
30	Completed	3/18/2023 2:26:34	23
31	Completed	3/18/2023 2:40:44	24
32	Completed	3/18/2023 2:53:01	25
33	Completed	3/18/2023 3:05:18	26
34	Completed	3/18/2023 3:19:08	27
35	Completed	3/18/2023 3:31:28	28
36	Completed	3/18/2023 3:45:24	29
37	Completed	3/18/2023 3:59:46	24
38	Completed	3/18/2023 4:12:04	25
39	Completed	3/18/2023 4:24:26	3
40	Completed	3/18/2023 4:37:51	4
41	Completed	3/18/2023 4:51:05	5
42	Completed	3/18/2023 5:04:40	30
43	Completed	3/18/2023 5:18:22	31
44	Completed	3/18/2023 5:31:52	32
45	Completed	3/18/2023 5:45:50	33
46	Completed	3/18/2023 6:00:01	34
47	Completed	3/18/2023 6:13:51	35
48	Completed	3/18/2023 6:29:10	36
49	Completed	3/18/2023 6:43:43	24
50	Completed	3/18/2023 6:56:03	25
51	Completed	3/18/2023 7:11:30	37

C:\TOC-L\Data\2023_03_17_002.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
52	Unknown	NPOC	HS23030845-06		12_22_2022	1.000	NPOC:15.98mg/L	
53	Unknown	NPOC	HS23030501-01		12_22_2022	1.000	NPOC:4.349mg/L	
54	Unknown	NPOC	HS23030832-03		12_22_2022	1.000	NPOC:0.5859mg/	
55	Unknown	NPOC	CCV	321104002	12_22_2022	1.000	NPOC:24.96mg/L	
56	Unknown	NPOC	CCB		12_22_2022	1.000	NPOC:0.2449mg/	

C:\TOC-L\Data\2023_03_17_002.tlx

	Status	Date / Time	Vial
52	Completed	3/18/2023 7:26:06	38
53	Completed	3/18/2023 7:38:55	39
54	Completed	3/18/2023 7:51:18	40
55	Completed	3/18/2023 8:05:52	24
56	Completed	3/18/2023 8:18:13	25

TOC-Control L Report

2023_03_17_002.tlx

Instr.Information

Instrument Options: TOC/ASI/IC Unit/
Catalyst: Regular Sensitivity

Sample

Sample Name: CCV
Sample ID: 321104002
Origin: 12_22_2022_CAL.cal
Status: Completed
Chk. Result:

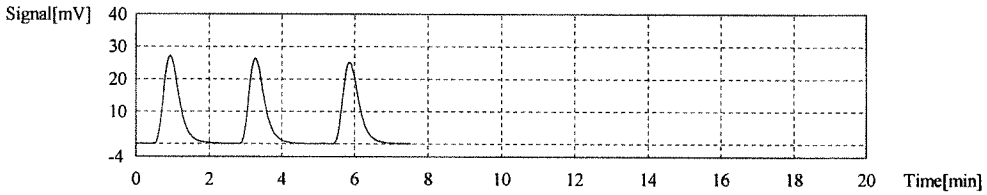
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.09mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	82.67	25.74mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 3:54:07 AM
2	80.33	25.01mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 3:56:58 AM
3	78.80	24.53mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 3:59:46 AM

Mean Area: 80.60
Mean Conc.: 25.09mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 12_22_2022_CAL.cal
Status: Completed
Chk. Result:

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1676mg/L

1. Det

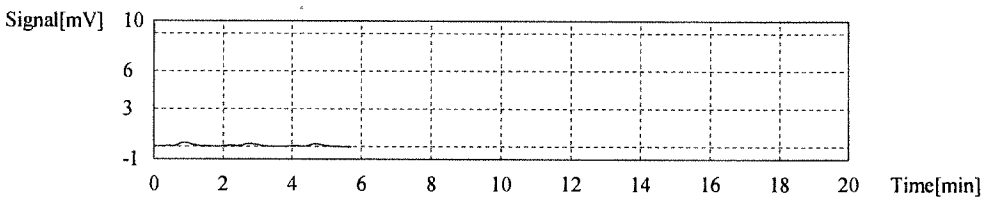
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7188	0.2238mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 4:07:49 AM
2	0.4574	0.1424mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 4:09:56 AM
3	0.4388	0.1366mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 4:12:04 AM

TOC-Control L Report

2023_03_17_002.tlx

Mean Area 0.5383
Mean Conc. 0.1676mg/L



Sample

Sample Name: MBLK-03172023
Sample ID:
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

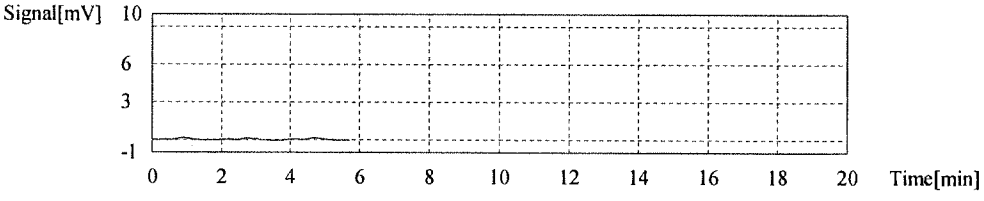
Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1100mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol	Aut. Dil	Ex	Cal. Curve	Date / Time
1	0.3625	0.1129mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 4:20:10 AM
2	0.3270	0.1018mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 4:22:18 AM
3	0.3703	0.1153mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 4:24:26 AM

Mean Area 0.3533
Mean Conc. 0.1100mg/L



Sample

Sample Name: LCS-03172023
Sample ID: 31006606923
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

Type	Anal	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.16mg/L

1. Det

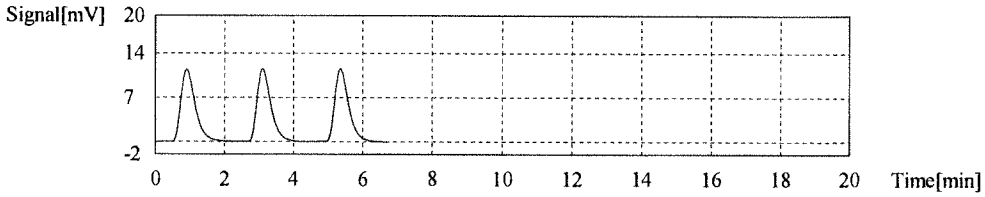
Anal.: NPOC

TOC-Control L Report

2023_03_17_002.tlx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	33.05	10.29mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 4:32:47 AM
2	32.51	10.12mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 4:35:18 AM
3	32.30	10.06mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 4:37:51 AM

Mean Area 32.62
Mean Conc. 10.16mg/L



Sample

Sample Name: LCSD-03172023
Sample ID:
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

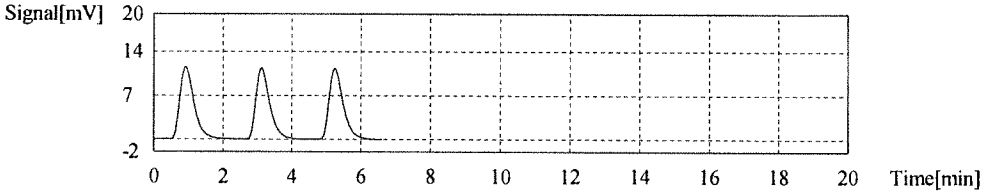
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.14mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	33.01	10.28mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 4:46:13 AM
2	32.30	10.06mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 4:48:35 AM
3	32.36	10.08mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 4:51:05 AM

Mean Area 32.56
Mean Conc. 10.14mg/L



Sample

Sample Name: HS23030817-01
Sample ID:
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.96mg/L

1. Det

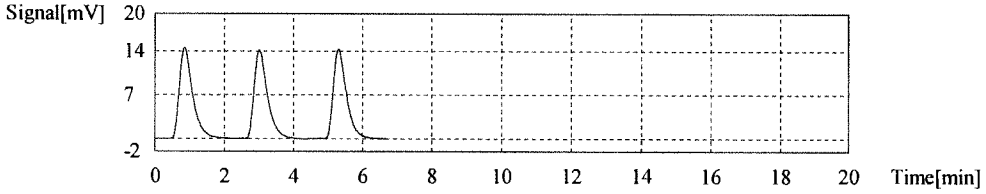
TOC-Control L Report

2023_03_17_002.tlx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.77	12.07mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 4:59:40 AM
2	38.15	11.88mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 5:02:13 AM
3	38.30	11.92mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 5:04:40 AM

Mean Area 38.41
Mean Conc. 11.96mg/L



Sample

Sample Name: HS23030817-01MS
Sample ID:
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

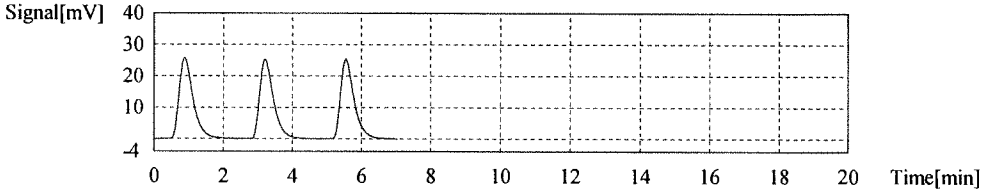
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:22.15mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	72.45	22.56mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 5:13:11 AM
2	70.97	22.10mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 5:15:47 AM
3	69.98	21.79mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 5:18:22 AM

Mean Area 71.13
Mean Conc. 22.15mg/L



Sample

Sample Name: CCV
Sample ID: 321104002
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.99mg/L

TOC-Control L Report

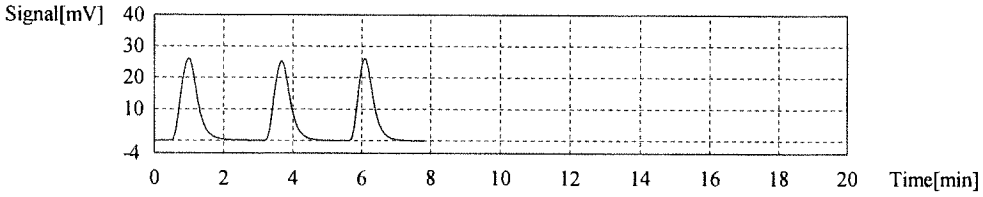
2023_03_17_002.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	87.35	27.20mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 6:38:08 AM
2	81.72	25.44mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 6:40:50 AM
3	81.40	25.34mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 6:43:43 AM

Mean Area 83.49
Mean Conc. 25.99mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

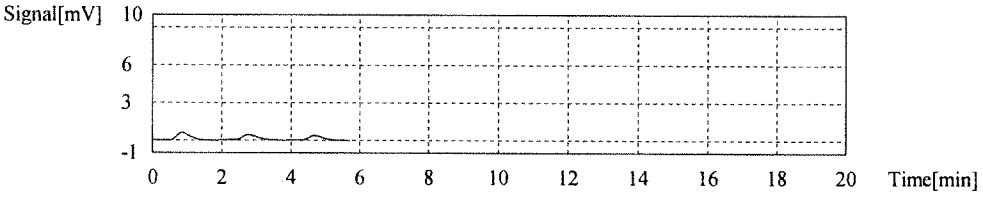
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3858mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.623	0.5053mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 6:51:47 AM
2	1.113	0.3465mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 6:53:55 AM
3	0.9812	0.3055mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 6:56:03 AM

Mean Area 1.239
Mean Conc. 0.3858mg/L



Sample

Sample Name: CCV
Sample ID: 321104002
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

TOC-Control L Report

2023_03_17_002.tlx

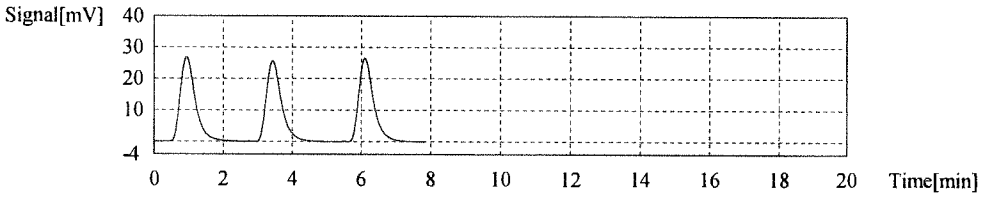
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.96mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	81.24	25.29mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 8:00:00 AM
2	79.58	24.78mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 8:02:58 AM
3	79.69	24.81mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 8:05:52 AM

Mean Area 80.17
Mean Conc. 24.96mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 12_22_2022_CAL.cal
Status Completed
Chk. Result

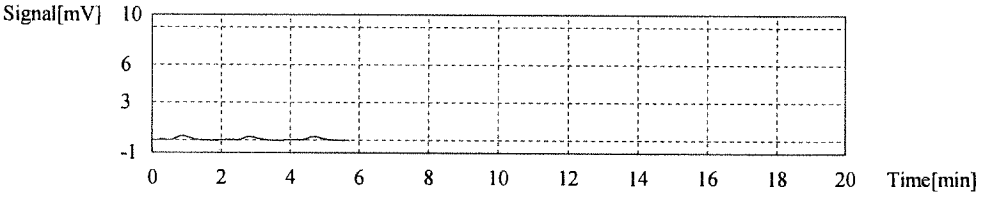
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2449mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8070	0.2513mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 8:13:56 AM
2	0.8111	0.2525mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 8:16:05 AM
3	0.7421	0.2310mg/L	50uL	1.000		12_22_2022_CAL.2022_12_22_12_06_45.cal	3/18/2023 8:18:13 AM

Mean Area 0.7867
Mean Conc. 0.2449mg/L



HS23030817-E2300251 Perchlorate Report
Level IV

ALS WO# HS23030817

March 16, 2023 Service Request No:E2300251

Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS23030817

Dear Dane,

Enclosed are the results of the sample(s) submitted to our laboratory March 15, 2023
For your reference, these analyses have been assigned our service request number **E2300251.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

Certificate of Analysis

ALS Environmental - Houston HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300251
Project:	HS23030817	**Date Received:**	03/15/23
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test. Report revised 03/29/23 to correct the prep start time to 08:20 and prep end time to 08:40.

Sample Receipt

Two samples were received for analysis at ALS Environmental in Houston on 03/15/23.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2300131: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2300251
Project: HS23030817

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300251-001	LH18/24-SP650_031423_AIX	3/14/2023	1300
E2300251-002	LH18/24-SP650_031423_BIX	3/14/2023	1300

Service Request Summary

Folder #: **E2300251**
Client Name: ALS Environmental - US
Project Name: HS23030817
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: JGUIN
Date Received: 03/15/23
Internal Due Date: 3/16/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23030817
EDD: BASIC_WQC_CASNo_LOD

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:
Rush

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2300251-001	LH18/24-SP650_031423_AIX	Water	03/14/23 1300	**IV**
E2300251-002	LH18/24-SP650_031423_BIX	Water	03/14/23 1300	**IV**

Service Request Summary

Folder #: **E2300251**
Client Name: ALS Environmental - US
Project Name: HS23030817
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: JGUIN
Date Received: 03/15/23
Internal Due Date: 3/16/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23030817
EDD: BASIC_WQC_CASNo_LOD

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:
Rush

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793	5/27/2023
Arkansas Department of Environmental Quality	22-041-0	3/27/2023
California Department of Health Services	2919-2023	4/30/2023
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Hawaii Department of Health	2022	4/30/2023
Illinois Environmental Protection Agency	2000322022-9	5/9/2023
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Michigan Depratment of Environmental Quality	9971-2022	4/30/2023
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2023
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209422	4/24/2023
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	11707	3/31/2023
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002	5/15/2023
Pennsylvania Department of Environmental Protection	68-03441-016	6/30/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	04016-2022	4/30/2023
Texas Commision on Environmental Quality	T104704231-22-29	4/30/2023
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

ALS

Chain of Custody

ALS Environmental - Houston HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **21127**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS23030817
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23030817-02**	**LH18/24-SP650_031423_AIX**	**Water**	**14 Mar 2023 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			16 Mar 2023
2.	**HS23030817-03**	**LH18/24-SP650_031423_BIX**	**Water**	**14 Mar 2023 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			16 Mar 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: CH Date/Time: 03/15/23 1150

Received By: Date/Time: 03/15/23 1155

Cooler ID(s): Temperature(s):

ALS Environmental

Cooler Receipt Form

Project Chemist JG

Client/Project A/S Houston

Thermometer ID IR31

Date/Time Received: 03/15/23 1150 Initials: JG

Date/Time Logged in: 03/15/23 1200 Initials JG

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ○ Courier ✓ Client

2. Samples received in: ✓ Cooler ○ Box ○ Envelope ○ Other _____

3. Were custody seals on coolers? ✓ Yes ○ No

Were they intact? ✓ Yes ○ No ○ N/A

Were they signed and dated? ✓ Yes ○ No ○ N/A

If yes, how many and where?

4. Packing Material: ○ Inserts ○ Baggies ○ Bubble Wrap ○ Gel Packs ✓ Wet Ice ○ Sleeves ○ Other _____

5. Foreign or Regulated Soil? ○ Yes ○ No Location of Sampling: _____

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
		03/15/23	1150	CG		☐
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ✓ Yes ○ No

7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ✓ Yes ○ No

8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ✓ Yes ○ No

9. Were appropriate bottles/containers and volumes received for the requested tests? ✓ Yes ○ No

10. Did sample labels and tags agree with custody documents? ✓ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label:

10450 Stancliff Rd., Suite 210
Houston, TX 77099
T: +1 713 266 1599
F: +1 713 266 1599
www.alsglobal.com

SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 416556 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** Method **Prep Date/Time:** 3/16/23 08:20

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300238-001	130_030923	.01	6850/ClO4 DOD			Water	10mL	
2	E2300238-002	130_030923_a	.01	6850/ClO4 DOD			Water	10mL	
3	E2300238-003	17WW03_030923	.01	6850/ClO4 DOD			Water	10mL	
4	E2300238-004	17WW01_030923	.02	6850/ClO4 DOD			Water	10mL	
5	E2300238-005	17WW02_030923	.01	6850/ClO4 DOD			Water	10mL	
6	E2300238-006	17WW06_030923	.01	6850/ClO4 DOD			Water	10mL	
7	E2300241-001	RSA-195-INT-07	.01	6850/ClO4 DOD			Water	10mL	
8	E2300241-002	RSA-195-INT-06	.01	6850/ClO4 DOD			Water	10mL	
9	E2300241-003	RSA-FB-06-080323	.01	6850/ClO4 DOD			Water	10mL	
10	E2300241-004	RSA-EB-06-080323	.01	6850/ClO4 DOD			Water	10mL	
11	E2300241-005	RSA-094-INT-01	.01	6850/ClO4 DOD			Water	10mL	
12	E2300251-001	LH18/24-SP650_031423_AIX	.01	6850/ClO4 DOD			Water	10mL	
13	E2300251-002	LH18/24-SP650_031423_BIX	.01	6850/ClO4 DOD			Water	10mL	
14	EQ2300131-01	LCS		6850/ClO4 DOD			Liquid	10mL	
15	EQ2300131-02	DLCS		6850/ClO4 DOD			Liquid	10mL	
16	EQ2300131-03	MB		6850/ClO4 DOD			Liquid	10mL	
17	EQ2300131-04	17WW01_030923 MS	.02	6850/ClO4 DOD			Liquid	10mL	
18	EQ2300131-05	17WW01_030923 DMS	.02	6850/ClO4 DOD			Liquid	10mL	
19	K2302951-001	LGAC-INT1-031323	.01	6850/ClO4			Water	10mL	

Spiking Solutions

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 226778 Logbook Ref: Perchlorate Internal Standard Expires On: 05/31/2023

E2300238-001	100.00µL	E2300238-002	100.00µL	E2300238-003	100.00µL	E2300238-004	100.00µL	E2300238-005	100.00µL	E2300238-006	100.00µL
E2300241-001	100.00µL	E2300241-002	100.00µL	E2300241-003	100.00µL	E2300241-004	100.00µL	E2300241-005	100.00µL	E2300251-001	100.00µL
E2300251-002	100.00µL	EQ2300131-01	100.00µL	EQ2300131-01	100.00µL	EQ2300131-02	100.00µL	EQ2300131-02	100.00µL	EQ2300131-03	100.00µL
EQ2300131-03	100.00µL	EQ2300131-04	100.00µL	EQ2300131-05	100.00µL	K2302951-001	100.00µL				

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300131-01	1.00µL	EQ2300131-01	1.00µL	EQ2300131-02	1.00µL	EQ2300131-02	1.00µL	EQ2300131-04	1.00µL	EQ2300131-05	1.00µL

Preparation Materials

Water HPLC Grade	02/16/2023 Water (227655)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 0.45um syringe filters	6850 Syringe Filters (224414)
6850 Luer-Lok Syringes	Luer-Lok Syringes (221305)				

Preparation Information Benchsheet

Prep Run#: 416556 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/XMI **Prep Method:** **Prep Date/Time:** 3/16/23 08:20

Preparation Steps

Step: Preparation
Started: 3/16/23 08:20
Finished: 3/16/23 08:40
By: XMI
Comments

Comments: _____

Reviewed By: XMI Date: 03/16/23

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300251
Project:	HS23030817	**Date Collected:**	3/14/23 1300
Sample Matrix:	Water	**Date Received:**	3/15/23
Sample Name:	LH18/24-SP650_031423_AIX	**Units:**	µg/L
Lab Code:	E2300251-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0764**	J	0.100	0.0500	0.0250	1	3/16/23	3/16/23 10:07	416556	797870	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300251
Project:	HS23030817	**Date Collected:**	3/14/23 1300
Sample Matrix:	Water	**Date Received:**	3/15/23
Sample Name:	LH18/24-SP650_031423_BIX	**Units:**	µg/L
Lab Code:	E2300251-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**24.0**		0.100	0.0500	0.0250	1	3/16/23	3/16/23 10:12	416556	797870	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300251
Project:	HS23030817	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300131-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	3/16/23	3/16/23 10:01	416556	797870	

Accuracy & Precision

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23030817
Sample Matrix: Water

Service Request: E2300251
Date Analyzed: 3/16/23

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 416556

	Lab Control Sample EQ2300131-01			Duplicate Lab Control Sample EQ2300131-02					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.103	0.100	103	0.0972	0.100	97	84 - 119	5	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300251
Project:	HS23030817	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300131-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.103**		0.100	0.0500	0.0250	1	3/16/23	3/16/23 12:21	416556	797870	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300251
Project:	HS23030817	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300131-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0972**	J	0.100	0.0500	0.0250	1	3/16/23	3/16/23 09:55	416556	797870	

Initial Calibration

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

20230201-793296

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XMI
2nd Review: Kneir

ICAL Date: 2/1/2023
Cal. Std. xp: 07/31/2023
ICAL ID: EC2300002

Mobile Phases : A:0.10% Formic Acid/Water 3210303-02 **B:**MeOH 224417

	Sample Name		File Name	Acquisition Method	Dilution	R	Comments	Date/Time
1	PERCHLORATE1		20230201-003	Perchlorate6850c.lcm	1x	☒	227245	2/1/2023 11:50
2	PERCHLORATE2		20230201-004	Perchlorate6850c.lcm	1x	☒	227246	2/1/2023 11:55
3	PERCHLORATE3		20230201-005	Perchlorate6850c.lcm	1x	☒	227247	2/1/2023 12:01
4	PERCHLORATE4		20230201-006	Perchlorate6850c.lcm	1x	☒	227248	2/1/2023 12:07
5	PERCHLORATE5		20230201-007	Perchlorate6850c.lcm	1x	☒	227249	2/1/2023 12:13
6	PERCHLORATE6		20230201-008	Perchlorate6850c.lcm	1x	☒	227250	2/1/2023 12:19
7	PERCHLORATE7		20230201-009	Perchlorate6850c.lcm	1x	☒	227251	2/1/2023 12:25
8	PERCHLORATE8		20230201-010	Perchlorate6850c.lcm	1x	☒	227252	2/1/2023 12:30
9	PERCHLORATE9		20230201-011	Perchlorate6850c.lcm	1x	☒	227253	2/1/2023 12:36
10	PERCHLORATE10		20230201-012	Perchlorate6850c.lcm	1x	☒	227254	2/1/2023 12:42
11	PERCHLORATEICV		20230201-013	Perchlorate6850c.lcm	1x	☒	227256	2/1/2023 12:48
12	LODV		20230201-014	Perchlorate6850c.lcm	1x	☒	225199	2/1/2023 12:54
13	ICS		20230201-015	Perchlorate6850c.lcm	1x	☒	32103024	2/1/2023 13:00
14	PERCHLORATE7		20230201-016	Perchlorate6850c.lcm	1x	☒	227251	2/1/2023 15:24
15	EQ2300047-01		20230201-017	Perchlorate6850c.lcm	1x	☒		2/1/2023 15:30
16	EQ2300047-02		20230201-018	Perchlorate6850c.lcm	1x	☒		2/1/2023 15:36
17	EQ2300047-03		20230201-019	Perchlorate6850c.lcm	1x	☒		2/1/2023 15:41
18	R2300589-005		20230201-020	Perchlorate6850c.lcm	1x	☒		2/1/2023 15:48
19	R2300589-010		20230201-021	Perchlorate6850c.lcm	1x	☒	DNU-BAD PEAK SHAPE	2/1/2023 15:54
20	R2300648-018		20230201-022	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:00
21	R2300648-025		20230201-023	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:06
22	PERCHLORATE7		20230201-024	Perchlorate6850c.lcm	1x	☒	227251	2/1/2023 16:17
23	E2300092-001		20230201-025	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:23
24	E2300092-002		20230201-026	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:29
25	E2300092-003		20230201-027	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:35
26	E2300092-004		20230201-028	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:41
27	E2300094-001		20230201-029	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:47
28	E2300094-002		20230201-030	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:52
29	E2300094-003		20230201-031	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:58
30	E2300094-004		20230201-032	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:04
31	E2300094-005		20230201-033	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:10
32	PERCHLORATE7		20230201-034	Perchlorate6850c.lcm	1x	☒	227251	2/1/2023 17:16
33	E2300096-001		20230201-035	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:21
34	E2300096-002		20230201-036	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:27
35	E2300096-003		20230201-037	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:33
36	E2300096-004		20230201-038	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:39
37	E2300096-005		20230201-039	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:45
38	E2300096-006		20230201-040	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:51
39	E2300096-007		20230201-041	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:56
40	PERCHLORATE7		20230201-042	Perchlorate6850c.lcm	1x	☒	227251	2/1/2023 18:02

Initial Calibration - Detailed Report

Calibration ID: EC2300002 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2300002-01	PERCHLORATE1	20230201-003	02/01/2023 11:50
02	EC2300002-02	PERCHLORATE2	20230201-004	02/01/2023 11:55
03	EC2300002-03	PERCHLORATE3	20230201-005	02/01/2023 12:01
04	EC2300002-04	PERCHLORATE4	20230201-006	02/01/2023 12:07
05	EC2300002-05	PERCHLORATE5	20230201-007	02/01/2023 12:13
06	EC2300002-06	PERCHLORATE6	20230201-008	02/01/2023 12:19
07	EC2300002-07	PERCHLORATE7	20230201-009	02/01/2023 12:25
08	EC2300002-08	PERCHLORATE8	20230201-010	02/01/2023 12:30
09	EC2300002-09	PERCHLORATE9	20230201-011	02/01/2023 12:36
10	EC2300002-10	PERCHLORATE10	20230201-012	02/01/2023 12:42

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 4.86** **Average RF = 0.1385**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1253	02	0.5000	0.13	03	0.7000	0.1346	04	1.0000	0.1399
05	2.0000	0.1406	06	5.0000	0.1404	07	10.0000	0.1416	08	20.0000	0.1407
09	30.0000	0.1447	10	50.0000	0.1477						

Analyte

Perchlorate RSE = 4.86

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0904	-9.6	02	0.5000	0.469	-6.1	03	0.7000	0.680	-2.8
04	1.0000	1.01	0.9	05	2.0000	2.03	1.5	06	5.0000	5.07	1.3
07	10.0000	10.2	2.2	08	20.0000	20.3	1.5	09	30.0000	31.3	4.5
10	50.0000	53.3	6.6								

Initial Calibration Verification Summary Report

Calibration ID:	EC2300002	**Instrument ID:**	E-LCMS-01
Datafile ID:	20230201-013	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2300002-11	T	Average RF	10	10.538	ng/mL	5.4	<= 15

Insight Report

Printed at 2/1/2023 2:06:14 PM

Method File: I:\LCMS01\DATA\02012023\20230201.lcm
Project File: I:\LCMS01\DATA\02012023\20230201.damlp

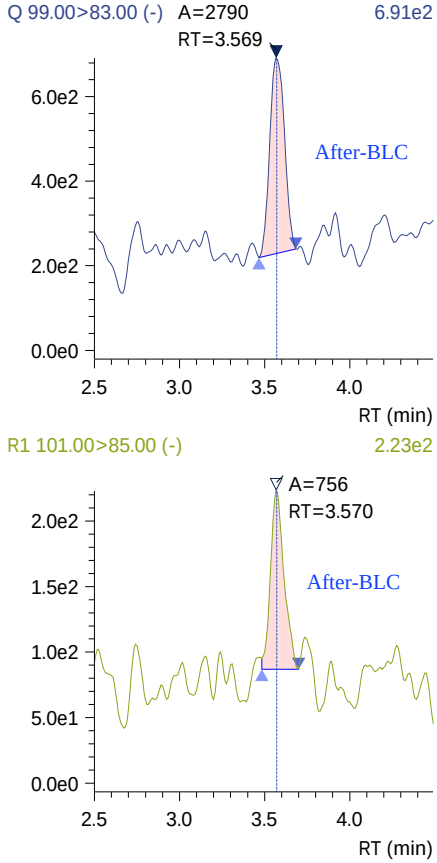
PERCHLORATE1

Sample ID: PERCHLORATE1
Date Acquired: 2/1/2023 11:50:11 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-003.lcd
Vial: 1 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.569	2790	222693	0.0904	ng/mL	101.00 >85.00	27.11	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.568	222693	222693	1.0000	ng/mL	----	----	

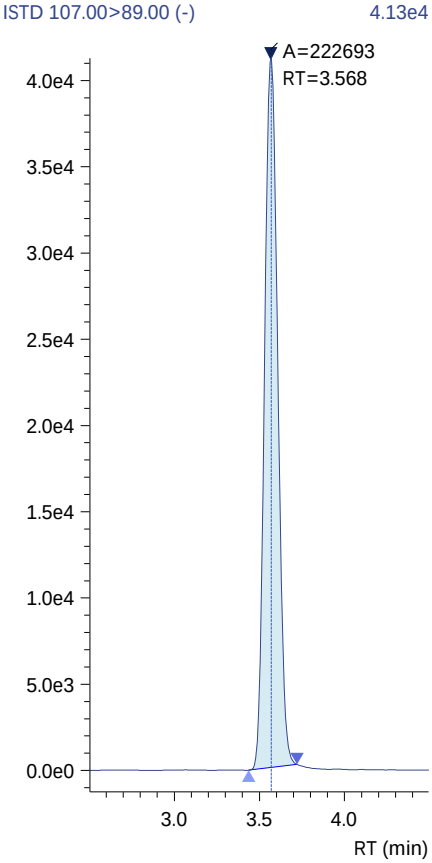
Perchlorate

Conc 0.0904
R#1 27.11 (31.99)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 2/1/2023 1:30:25 PM

Method File: I:\LCMS01\DATA\20230201\20230201ICAL.lcm
Project File: I:\LCMS01\DATA\20230201\20230201ICAL.damIp

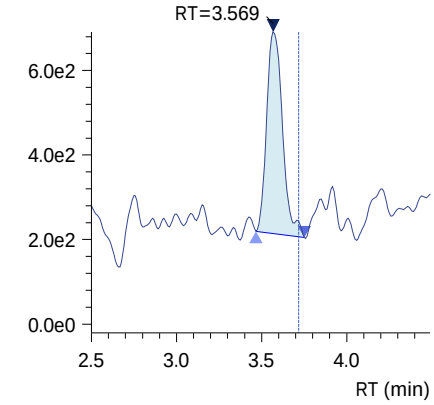
PERCHLORATE1

Sample ID: PERCHLORATE1
Date Acquired: 2/1/2023 11:50:11 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-003.lcd
Vial: 1 | Inj. Volume: 25.0000uL | Tray: 1

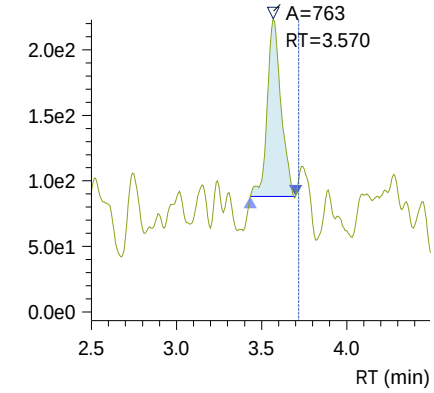
Perchlorate

Conc 0.0996
R#1 24.56 (34.45)

Q 99.00>83.00 (-) A=3105 6.91e2



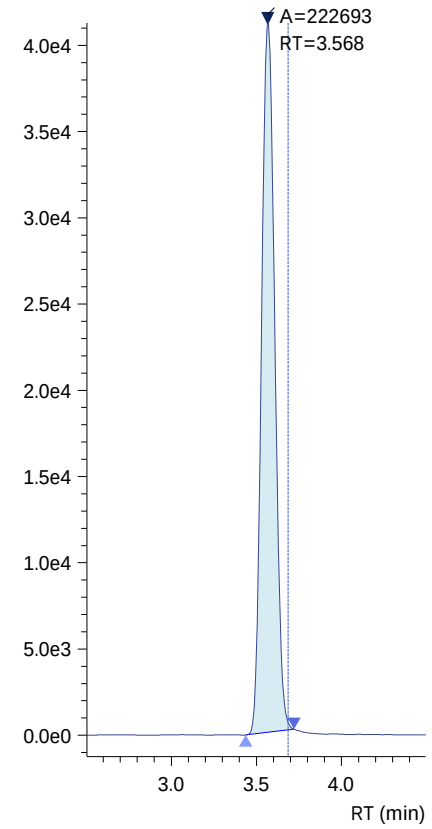
R1 101.00>85.00 (-) 2.23e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.13e4



Insight Report

Printed at 2/1/2023 2:06:14 PM

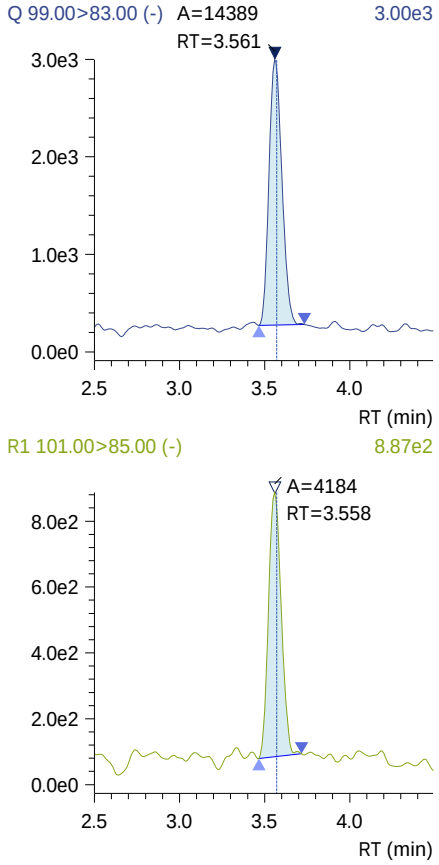
PERCHLORATE2

Sample ID: PERCHLORATE2
Date Acquired: 2/1/2023 11:55:59 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-004.lcd
Vial: 2 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.561	14389	221291	0.4694	ng/mL	101.00 >85.00	29.08	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.558	221291	221291	1.0000	ng/mL	----	----	

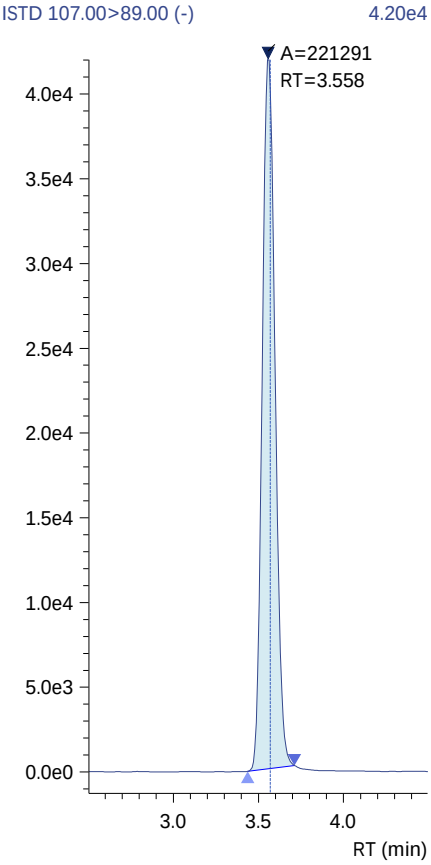
Perchlorate

Conc 0.4694
R#1 29.08 (31.99)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 2/1/2023 2:06:14 PM

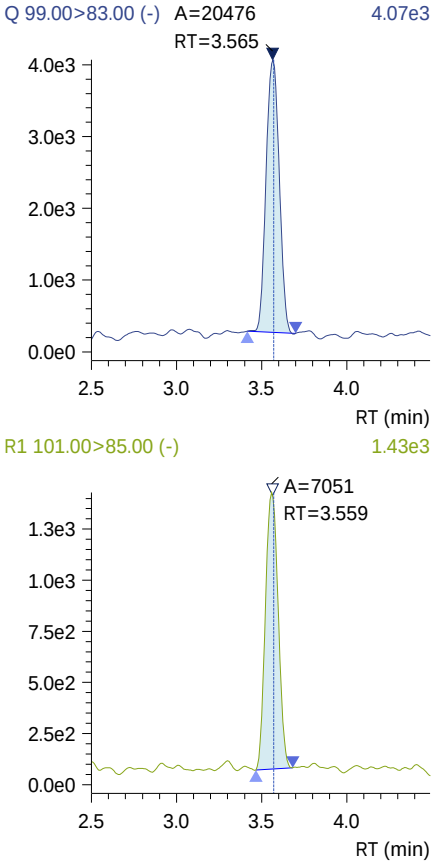
PERCHLORATE3

Sample ID: PERCHLORATE3
Date Acquired: 2/1/2023 12:01:49 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-005.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.565	20476	217325	0.6801	ng/mL	101.00 >85.00	34.44	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.559	217325	217325	1.0000	ng/mL	----	----	

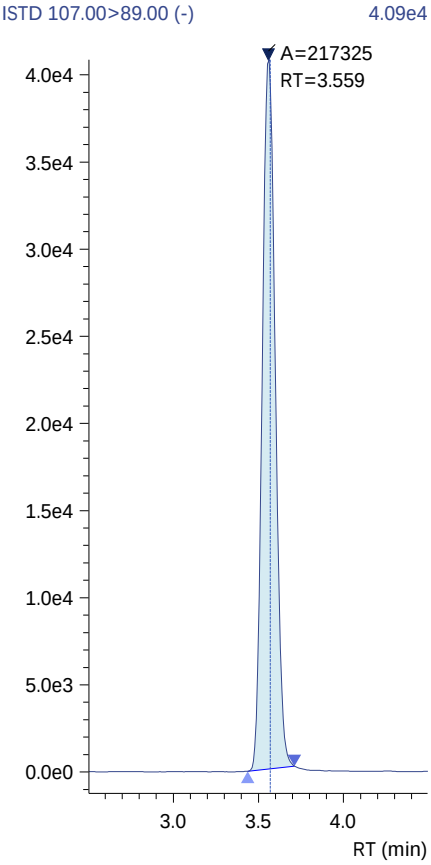
Perchlorate

Conc 0.6801
R#1 34.44 (31.99)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 2/1/2023 2:06:14 PM

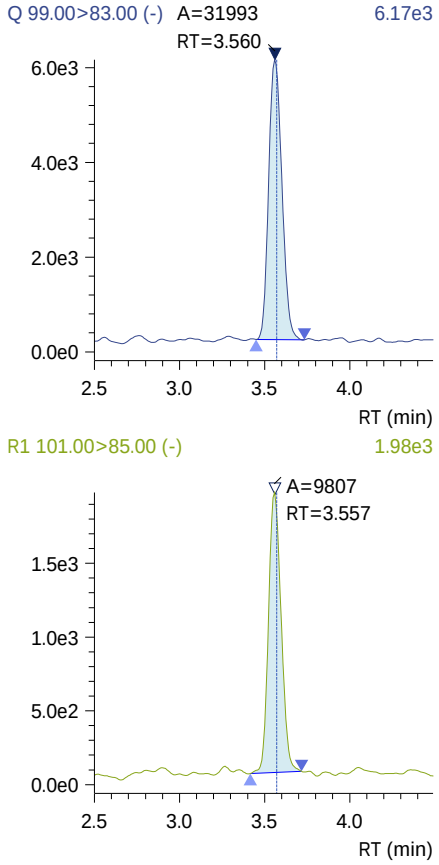
PERCHLORATE4

Sample ID: PERCHLORATE4
Date Acquired: 2/1/2023 12:07:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-006.lcd
Vial: 4 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.560	31993	228763	1.0095	ng/mL	101.00 >85.00	30.65	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.557	228763	228763	1.0000	ng/mL	----	----	

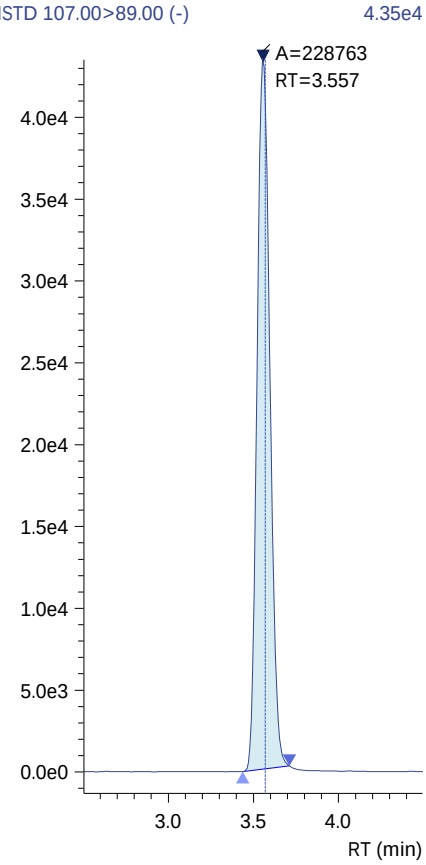
Perchlorate

Conc 1.0095
R#1 30.65 (31.99)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATE5

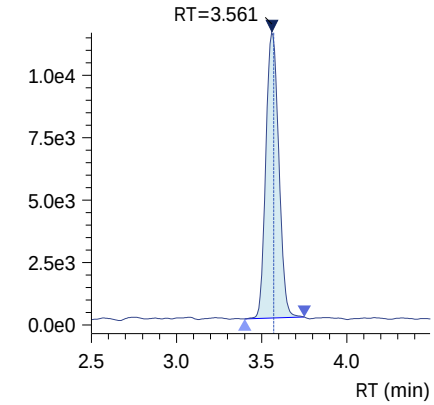
Sample ID: PERCHLORATE5
Date Acquired: 2/1/2023 12:13:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-007.lcd
Vial: 5 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.561	60751	216066	2.0296	ng/mL	101.00 >85.00	32.70	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.557	216066	216066	1.0000	ng/mL	----	----	

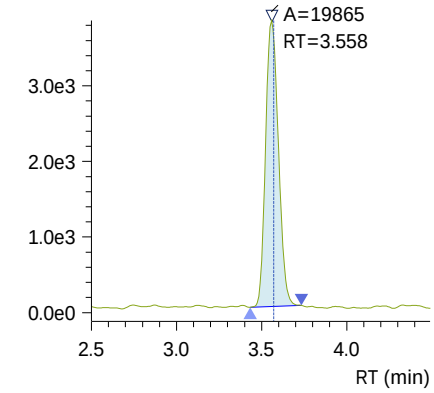
Perchlorate

Conc 2.0296
R#1 32.70 (31.99)

Q 99.00>83.00 (-) A=60751 1.17e4



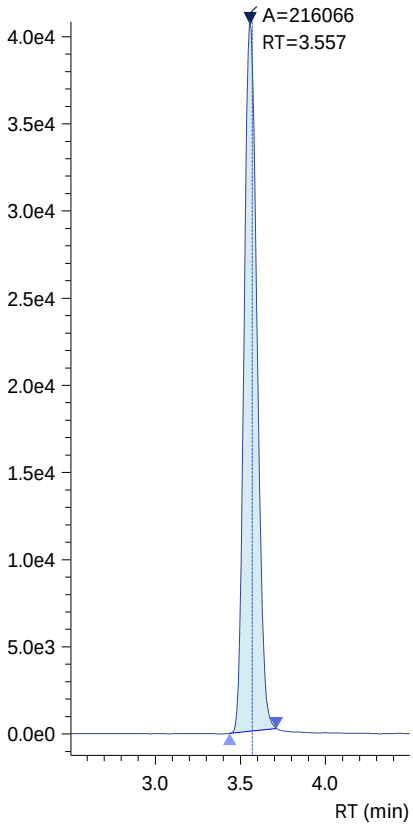
R1 101.00>85.00 (-) 3.87e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.09e4



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATE6

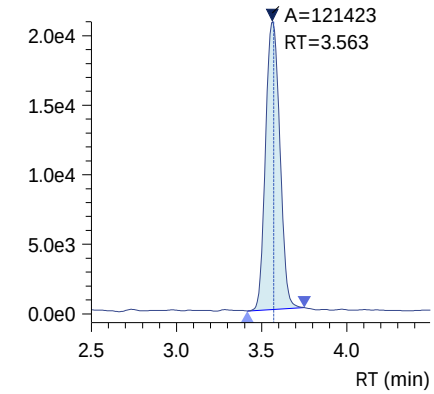
Sample ID: PERCHLORATE6
Date Acquired: 2/1/2023 12:19:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-008.lcd
Vial: 6 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.563	121423	172986	5.0667	ng/mL	101.00 >85.00	32.55	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.558	172986	172986	1.0000	ng/mL	----	----	

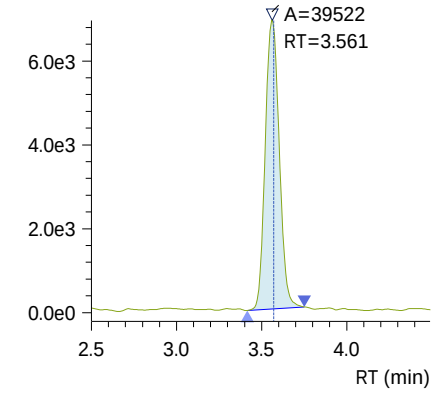
Perchlorate

Conc 5.0667
R#1 32.55 (31.99)

Q 99.00>83.00 (-) 2.10e4



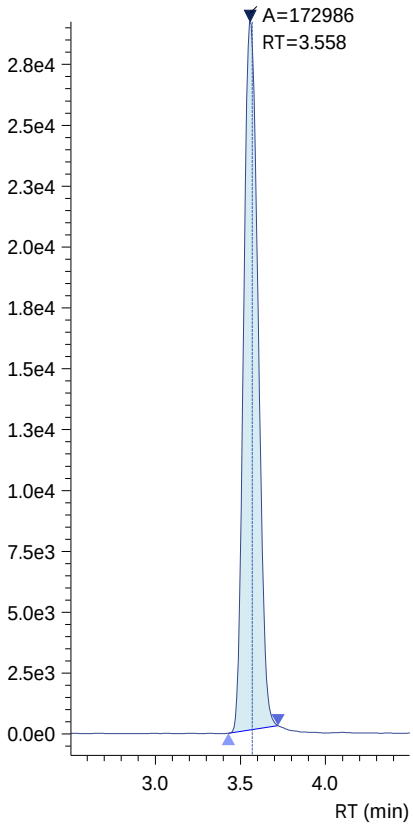
R1 101.00>85.00 (-) 6.97e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.93e4



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATE7

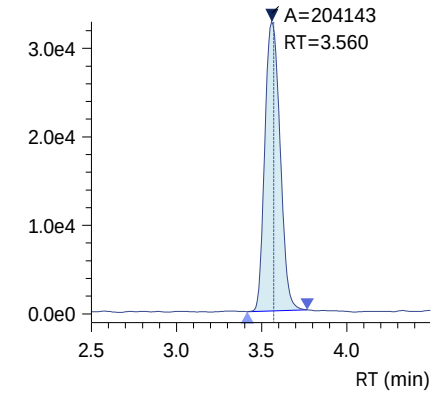
Sample ID: PERCHLORATE7
Date Acquired: 2/1/2023 12:25:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-009.lcd
Vial: 7 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.560	2041 43	144196	10.2 192	ng/mL	101.00 >85.00	31.99	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.555	144196	144196	1.0000	ng/mL	----	----	

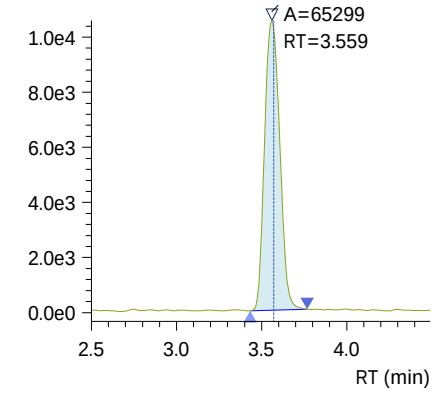
Perchlorate

Conc 10.2192
R#1 31.99 (31.99)

Q 99.00>83.00 (-) 3.30e4



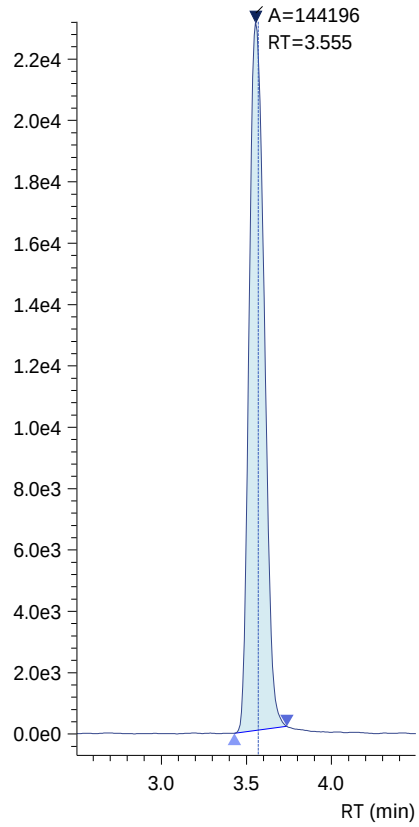
R1 101.00>85.00 (-) 1.06e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.32e4



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATE8

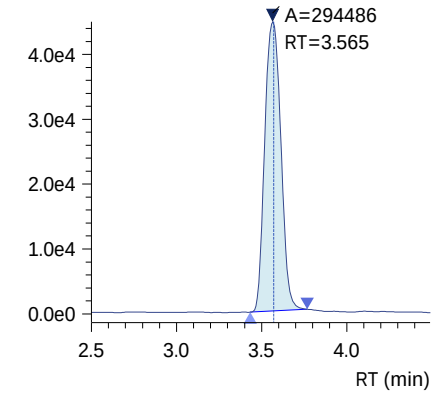
Sample ID: PERCHLORATE8
Date Acquired: 2/1/2023 12:30:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-010.lcd
Vial: 8 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.565	294486	104680	20.3065	ng/mL	101.00 >85.00	32.66	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.557	104680	104680	1.0000	ng/mL	----	----	

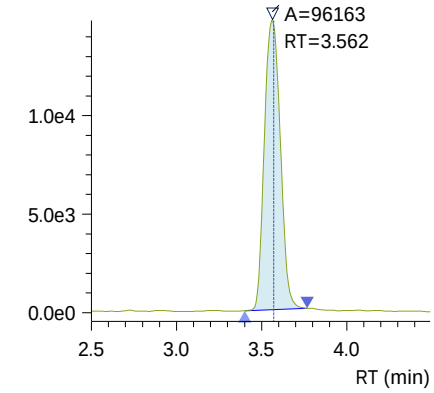
Perchlorate

Conc 20.3065
R#1 32.66 (31.99)

Q 99.00>83.00 (-) 4.50e4



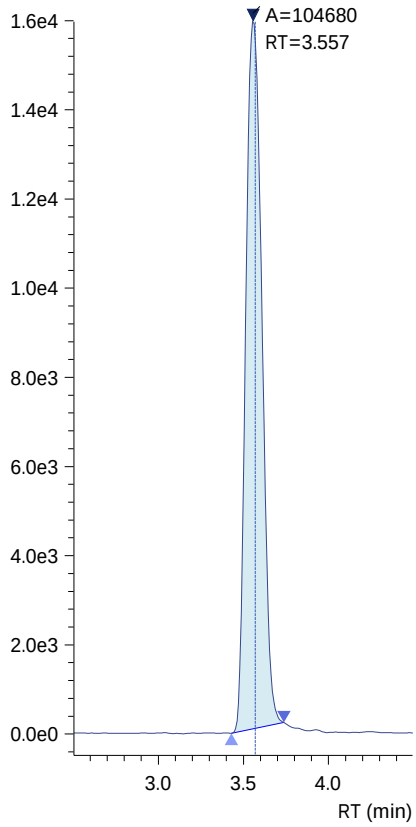
R1 101.00>85.00 (-) 1.48e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.60e4



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATE9

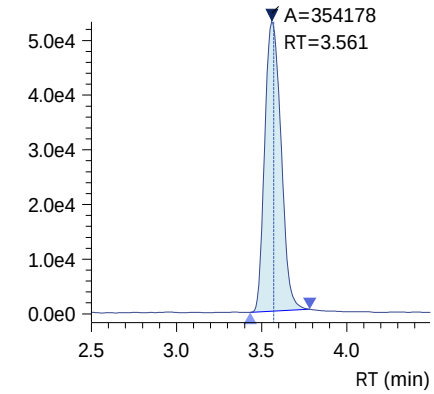
Sample ID: PERCHLORATE9
Date Acquired: 2/1/2023 12:36:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-011.lcd
Vial: 9 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.561	3541	81577	31.3	ng/mL	101.00	31.89	24.11
			78		395		>85.00		-44.78
Sodium Perchlorate-18O4 _IS	Auto	3.557	81577	81577	1.0000	ng/mL	----	----	

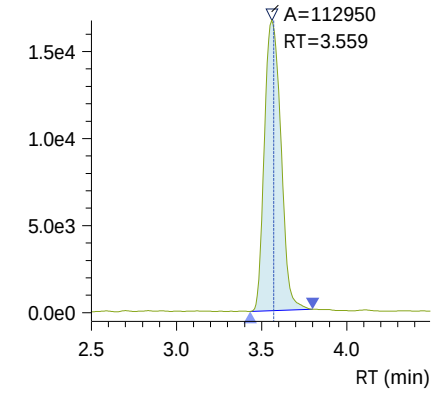
Perchlorate

Conc 31.3395
R#1 31.89 (31.99)

Q 99.00>83.00 (-) 5.34e4



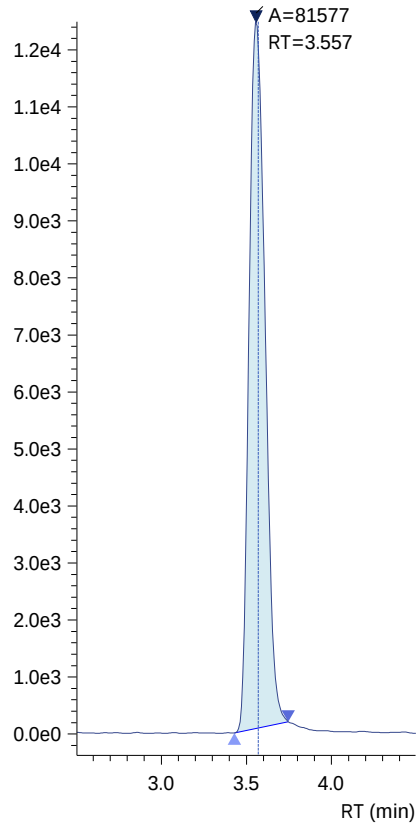
R1 101.00>85.00 (-) 1.68e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.25e4



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATE10

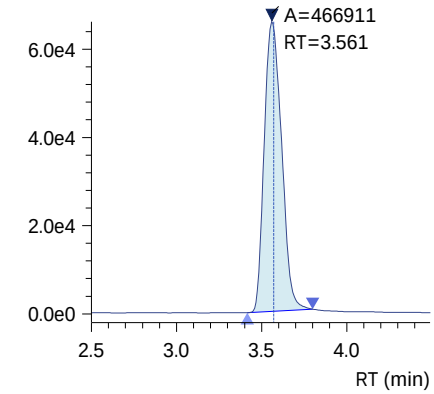
Sample ID: PERCHLORATE10
Date Acquired: 2/1/2023 12:42:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-012.lcd
Vial: 10 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.561	4669	63237	53.2	ng/mL	101.00	32.40	24.11
			11		964		>85.00		-44.78
Sodium Perchlorate-18O4_IS	Auto	3.554	63237	63237	1.0000	ng/mL	----	----	

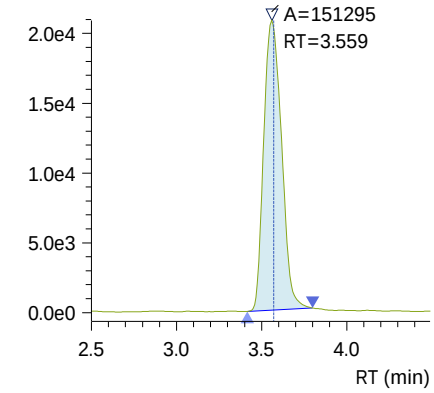
Perchlorate

Conc 53.2964
R#1 32.40 (31.99)

Q 99.00>83.00 (-) 6.62e4



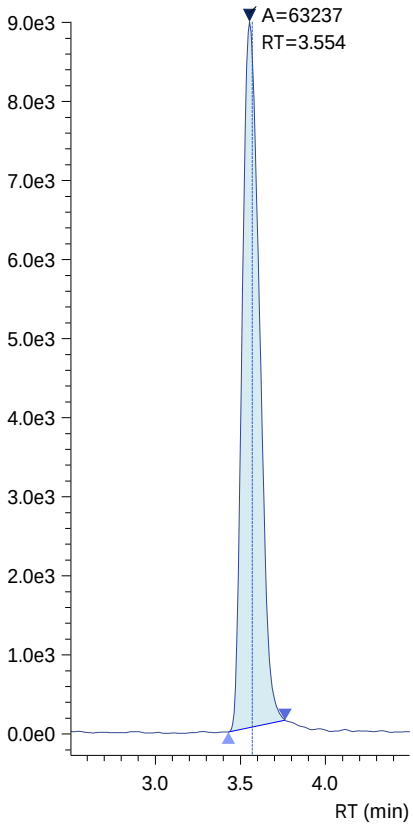
R1 101.00>85.00 (-) 2.09e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 9.01e3



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATEICV

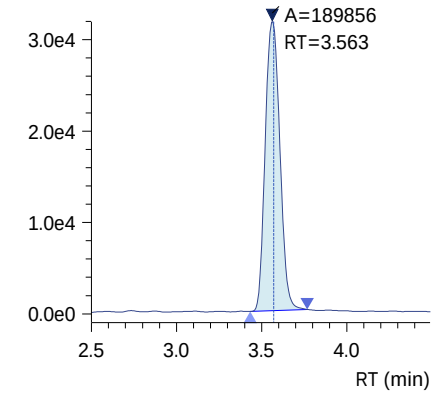
Sample ID: PERCHLORATEICV
Date Acquired: 2/1/2023 12:48:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-013.lcd
Vial: 11 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.563	189856 1	130049	10.5379	ng/mL	101.00 >85.00	32.76	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.557	130049	130049	1.0000	ng/mL	----	----	

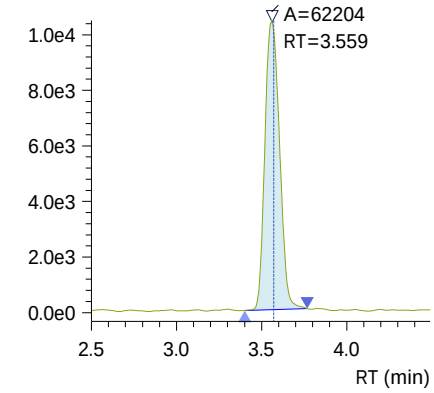
Perchlorate

Conc 10.5379
R#1 32.76 (31.99)

Q 99.00>83.00 (-) 3.20e4



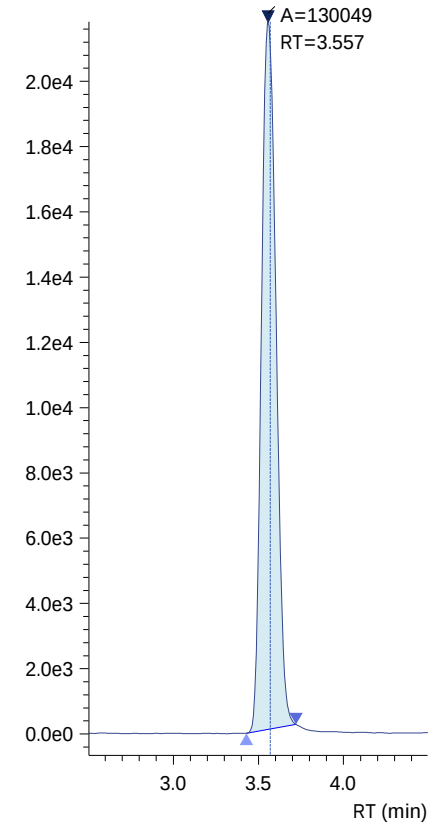
R1 101.00>85.00 (-) 1.05e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.18e4



Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

20230316-797870

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XMI
2nd Review: KNEIR

ICAL Date: 2/1/2023
Cal. Std. xp: 07/31/2023
ICAL ID: EC2300002

Mobile Phases : A:0.10% Formic Acid/Water 3210303-05 **B:**MeOH 224417

	Sample Name		File Name	Acquisition Method	Dilution	R	Comments	Date/Time
1	IB		20230316-001	Perchlorate6850c.lcm	1x	☒		3/16/2023 8:53
2	LODV		20230316-002	Perchlorate6850c.lcm	1x	☒	227501	3/16/2023 8:59
3	ICS		20230316-003	Perchlorate6850c.lcm	1x	☒	32103024	3/16/2023 9:05
4	PERCHLORATE7		20230316-004	Perchlorate6850c.lcm	1x	☒	227251	3/16/2023 9:27
5	R2301893-035		20230315R-015	Perchlorate6850c.lcm	1x	☒		3/16/2023 9:44
6	EQ2300131-01		20230316-005	Perchlorate6850c.lcm	1x	☒	DNU-IR	3/16/2023 9:50
7	EQ2300131-02		20230316-006	Perchlorate6850c.lcm	1x	☒		3/16/2023 9:55
8	EQ2300131-03		20230316-007	Perchlorate6850c.lcm	1x	☒		3/16/2023 10:01
9	E2300251-001		20230316-008	Perchlorate6850c.lcm	1x	☒		3/16/2023 10:07
10	E2300251-002		20230316-009	Perchlorate6850c.lcm	1x	☒		3/16/2023 10:12
11	K2302951-001		20230316-010	Perchlorate6850c.lcm	1x	☒		3/16/2023 10:41
12	E2300238-001		20230316-011	Perchlorate6850c.lcm	1x	☒		3/16/2023 10:47
13	E2300238-002		20230316-012	Perchlorate6850c.lcm	1x	☒		3/16/2023 10:53
14	E2300238-003		20230316-013	Perchlorate6850c.lcm	1x	☒		3/16/2023 10:58
15	PERCHLORATE7		20230316-014	Perchlorate6850c.lcm	1x	☒	227251	3/16/2023 11:04
16	E2300238-004		20230316-015	Perchlorate6850c.lcm	1x	☒		3/16/2023 11:11
17	EQ2300131-04		20230316-016	Perchlorate6850c.lcm	1x	☒	DNU-RR	3/16/2023 11:17
18	EQ2300131-05		20230316-017	Perchlorate6850c.lcm	1x	☒		3/16/2023 11:23
19	E2300238-005		20230316-018	Perchlorate6850c.lcm	1x	☒	DNU-OUT OF ICAL RANGE	3/16/2023 11:28
20	E2300238-006		20230316-019	Perchlorate6850c.lcm	1x	☒	DNU-OUT OF ICAL RANGE	3/16/2023 11:34
21	IB		20230316-020	Perchlorate6850c.lcm	1x	☒		3/16/2023 11:40
22	E2300241-001		20230316-021	Perchlorate6850c.lcm	1x	☒		3/16/2023 11:47
23	E2300241-002		20230316-022	Perchlorate6850c.lcm	1x	☒		3/16/2023 11:53
24	E2300241-003		20230316-023	Perchlorate6850c.lcm	1x	☒		3/16/2023 11:58
25	E2300241-004		20230316-024	Perchlorate6850c.lcm	1x	☒		3/16/2023 12:04
26	PERCHLORATE7		20230316-025	Perchlorate6850c.lcm	1x	☒	227251	3/16/2023 12:10
27	E2300241-005		20230316-026	Perchlorate6850c.lcm	1x	☒		3/16/2023 12:15
28	EQ2300131-01		20230316-027	Perchlorate6850c.lcm	1x	☒		3/16/2023 12:21
29	EQ2300131-04		20230316-028	Perchlorate6850c.lcm	1x	☒		3/16/2023 12:27
30	E2300238-005		20230316-029	Perchlorate6850c.lcm	1000x	☒		3/16/2023 12:33
31	E2300238-006		20230316-030	Perchlorate6850c.lcm	10000x	☒		3/16/2023 12:38
32	PERCHLORATE7		20230316-036	Perchlorate6850c.lcm	1x	☒	227251	3/16/2023 13:14

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300251
Project:	HS23030817	**Date Analyzed:**	3/16/23 11:04

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230316\20230316-014	**Lab Code:**	EQ2300134-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	797870
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	167,281	3.56
	Upper Limit ==>	250,922	5.56
	Lower Limit ==>	83,641	1.56
Associated Analyses			
Continuing Calibration Verification	EQ2300134-02	170,210	3.36

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23030817

Service Request: E2300251
Date Analyzed: 3/16/23 12:10

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20230316\20230316-025
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2300134-03
Analysis Lot: 797870
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	167,281	3.56
	Upper Limit ==>	250,922	5.56
	Lower Limit ==>	83,641	1.56
Associated Analyses			
Continuing Calibration Verification	EQ2300134-03	168,948	3.35
Lab Control Sample	EQ2300131-01	200,597	3.35

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300251
Project:	HS23030817	**Date Analyzed:**	3/16/23 13:14

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230316\20230316-036	**Lab Code:**	EQ2300134-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	797870
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	167,281	3.56
	Upper Limit ==>	250,922	5.56
	Lower Limit ==>	83,641	1.56
Associated Analyses			
Continuing Calibration Verification	EQ2300134-04	170,281	3.35

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23030817

Service Request: E2300251
Date Analyzed: 3/16/23

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20230316\20230316-014

Calibration Date: 2/1/23
Calibration ID: EC2300002
Analysis Lot: 797870
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.9	0.1385	0.1507	8.8	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23030817

Service Request: E2300251
Date Analyzed: 3/16/23

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20230316\20230316-025

Calibration Date: 2/1/23
Calibration ID: EC2300002
Analysis Lot: 797870
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.3	0.1385	0.1572	13.5	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23030817

Service Request: E2300251
Date Analyzed: 3/16/23

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20230316\20230316-036

Calibration Date: 2/1/23
Calibration ID: EC2300002
Analysis Lot: 797870
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1385	0.1450	4.7	NA	± 15 %	Average RF

Insight Report

Printed at 3/16/2023 1:24:53 PM

Method File: I:\LCMS01\DATA\20230316\20230316.lcm
Project File: I:\LCMS01\DATA\20230316\20230316.damlp

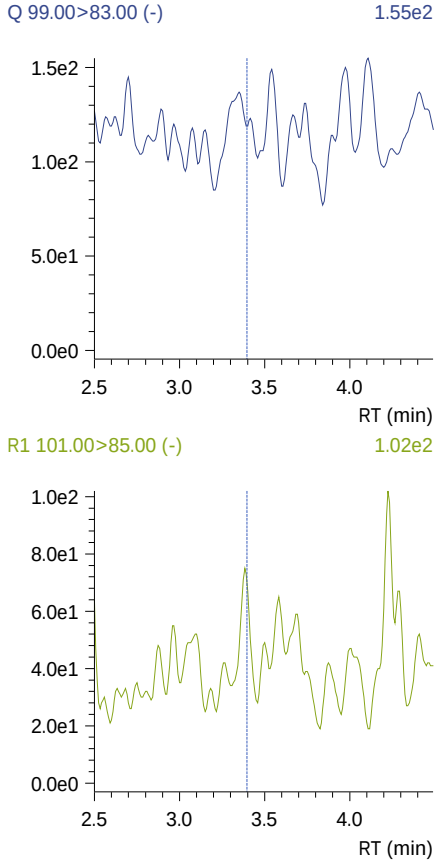
IB

Sample ID: IB
Date Acquired: 3/16/2023 8:53:56 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230316\20230316-001.lcd
Vial: 4 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	224691	----	ng/mL	101.00 >85.00	0.00	21.77 -40.42
Sodium Perchlorate-18O4_IS	Auto	3.362	224691	224691	1.0000	ng/mL	----	----	

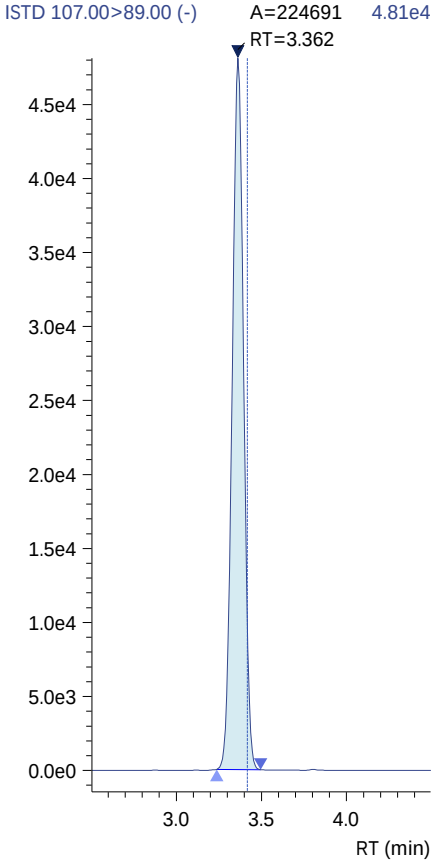
Perchlorate

Conc ----
R#1 0.00 (31.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/16/2023 1:24:53 PM

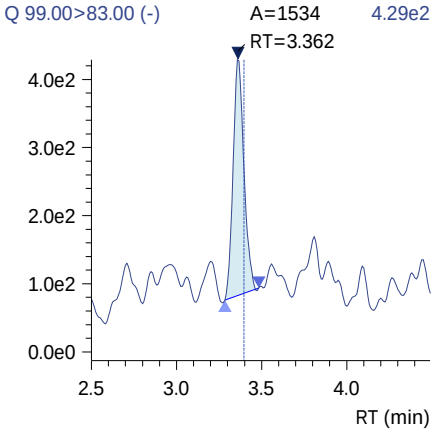
LODV

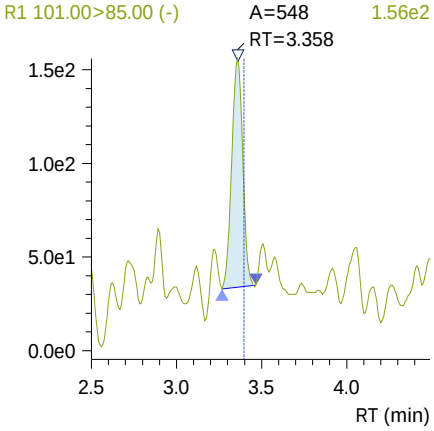
Sample ID: LODV
Date Acquired: 3/16/2023 8:59:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230316\20230316-002.lcd
Vial: 1 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.362	1534	194482	0.0569	ng/mL	101.00 >85.00	35.69	21.77 -40.42
Sodium Perchlorate-18O4_IS	Auto	3.359	194482	194482	1.0000	ng/mL	----	----	

Perchlorate

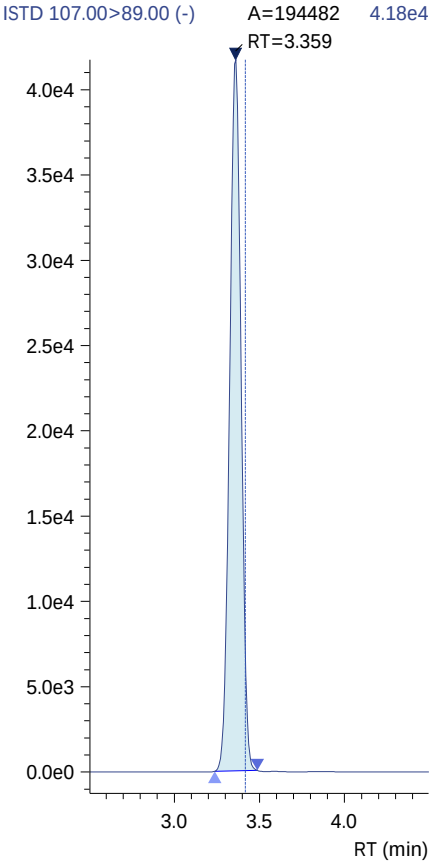
Conc 0.0569
R#1 35.69 (31.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/16/2023 1:24:53 PM

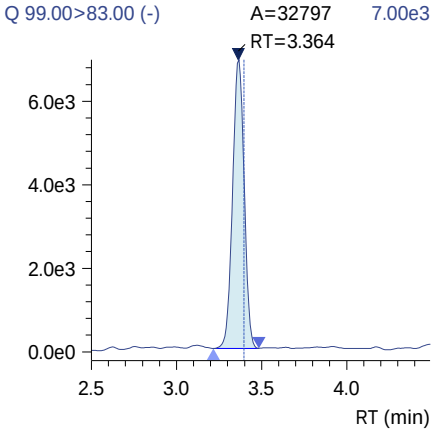
ICS

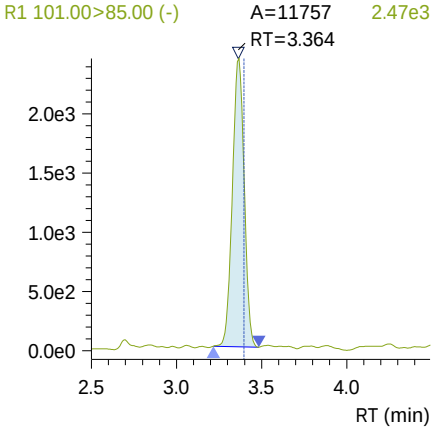
Sample ID: ICS
Date Acquired: 3/16/2023 9:05:19 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230316\20230316-003.lcd
Vial: 2 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.364	32797	224283	1.0555	ng/mL	101.00 >85.00	35.85	21.77 -40.42
Sodium Perchlorate-18O4_IS	Auto	3.360	224283	224283	1.0000	ng/mL	----	----	

Perchlorate

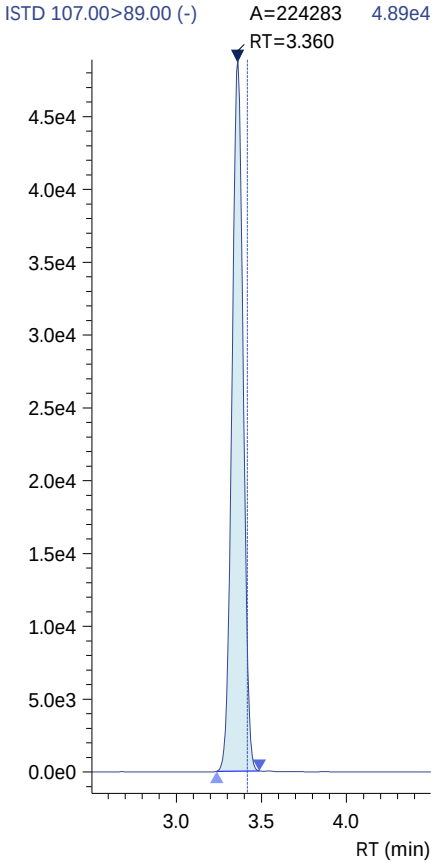
Conc 1.0555
R#1 35.85 (31.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/16/2023 1:24:53 PM

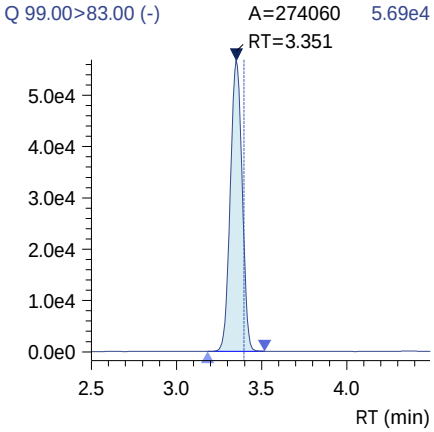
PERCHLORATE7

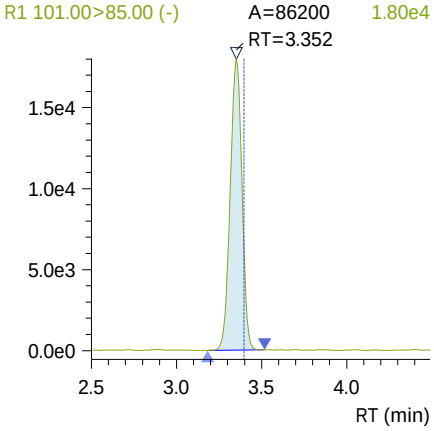
Sample ID: PERCHLORATE7
Date Acquired: 3/16/2023 9:27:04 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230316\20230316-004.lcd
Vial: 7 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.351	274060	228780	8.6470	ng/mL	101.00 >85.00	31.45	21.77 -40.42
Sodium Perchlorate-18O4_IS	Auto	3.348	228780	228780	1.0000	ng/mL	----	----	

Perchlorate

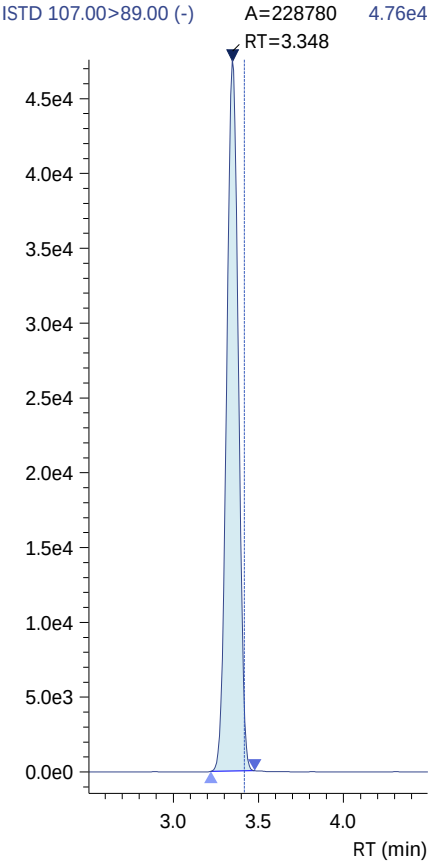
Conc 8.6470
R#1 31.45 (31.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/16/2023 1:24:53 PM

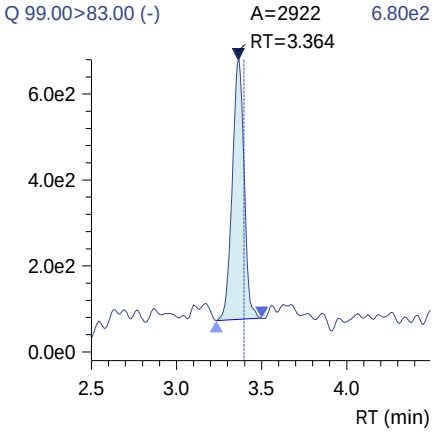
EQ2300131-02

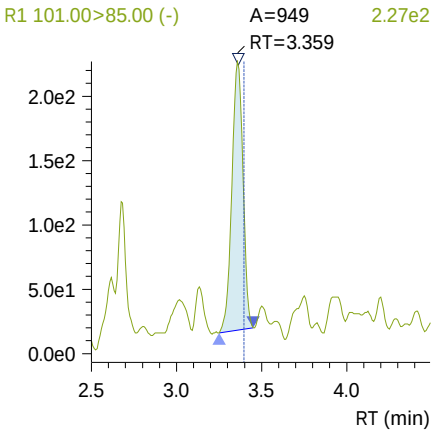
Sample ID: EQ2300131-02
Date Acquired: 3/16/2023 9:55:45 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230316\20230316-006.lcd
Vial: 49 | Inj. Volume: 25.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.364	2922	216921	0.0972	ng/mL	101.00 >85.00	32.46	21.77 -40.42
Sodium Perchlorate-18O4_IS	Auto	3.356	21691	216921	1.0000	ng/mL	----	----	

Perchlorate

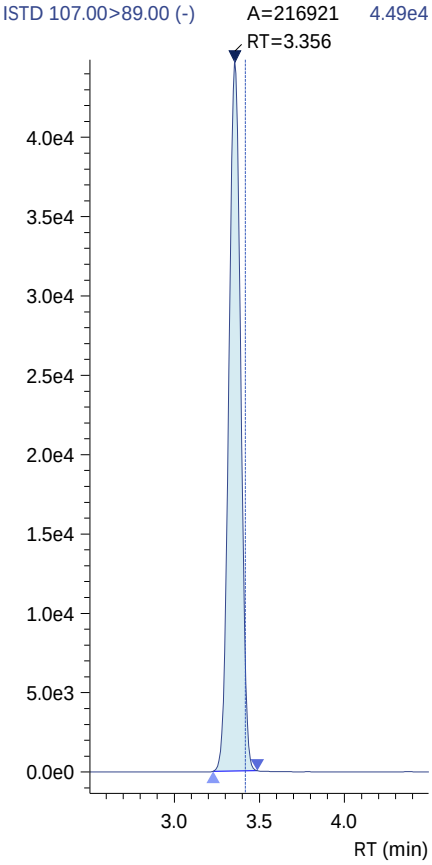
Conc 0.0972
R#1 32.46 (31.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/16/2023 1:24:53 PM

EQ2300131-03

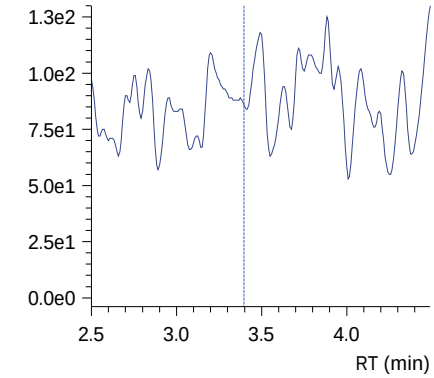
Sample ID: EQ2300131-03
Date Acquired: 3/16/2023 10:01:29 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230316\20230316-007.lcd
Vial: 50 | Inj. Volume: 25.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	221916	----	ng/mL	101.00 >85.00	0.00	21.77 -40.42
Sodium Perchlorate-18O4_IS	Auto	3.356	221916	221916	1.0000	ng/mL	----	----	

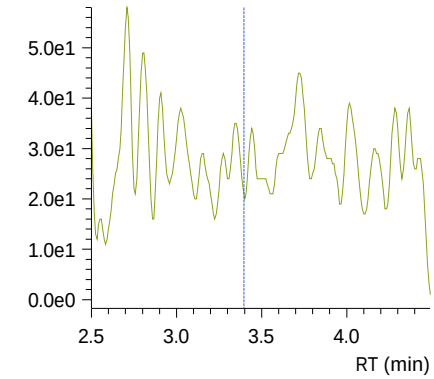
Perchlorate

Conc ----
R#1 0.00 (31.10)

Q 99.00>83.00 (-) 1.30e2



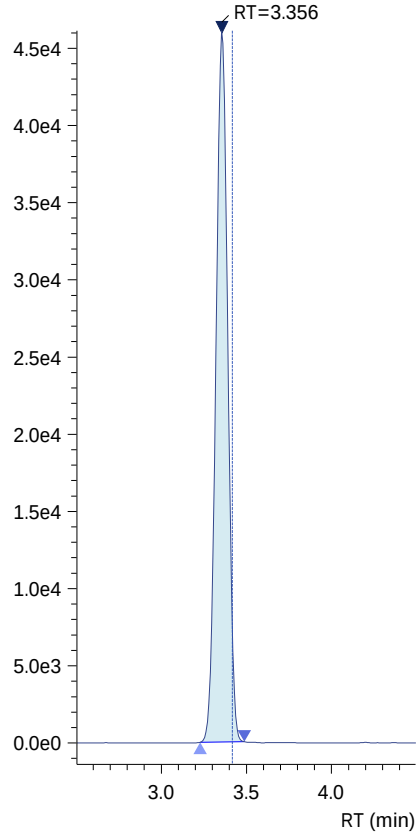
R1 101.00>85.00 (-) 5.80e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=221916 4.61e4



Insight Report

Printed at 3/16/2023 1:24:53 PM

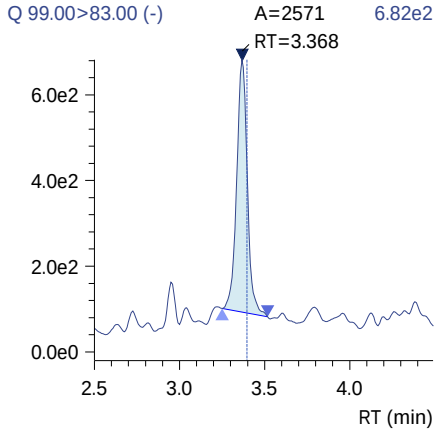
E2300251-001

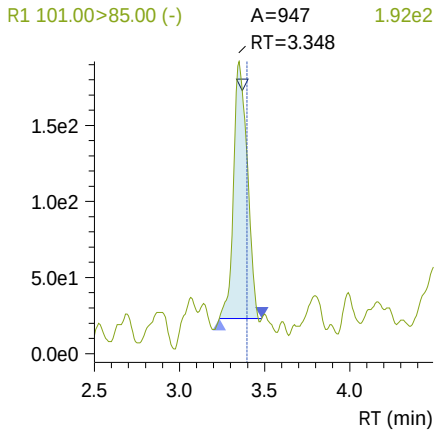
Sample ID: E2300251-001
Date Acquired: 3/16/2023 10:07:14 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230316\20230316-008.lcd
Vial: 10 | Inj. Volume: 25.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.368	2571	242895	0.0764	ng/mL	101.00 >85.00	36.83	21.77 -40.42
Sodium Perchlorate-18O4_IS	Auto	3.363	2428 95	242895	1.0000	ng/mL	----	----	

Perchlorate

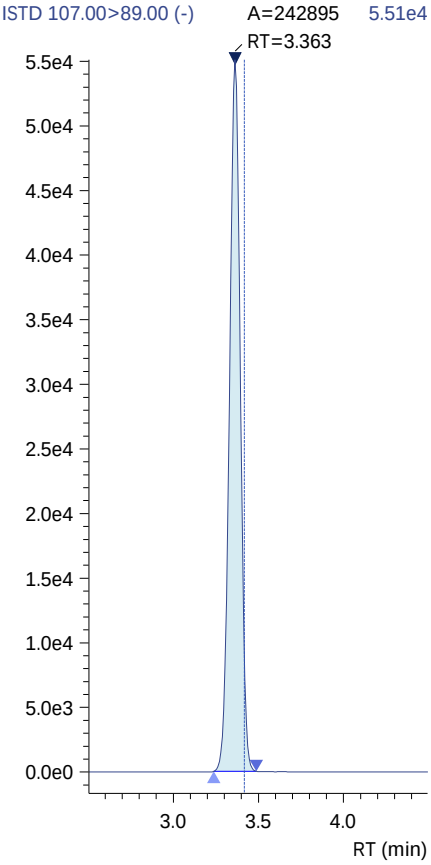
Conc 0.0764
R#1 36.83 (31.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/16/2023 1:24:53 PM

E2300251-002

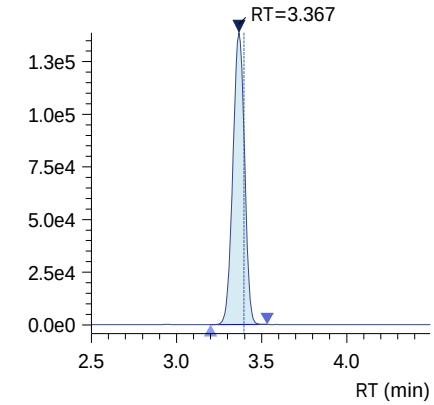
Sample ID: E2300251-002
Date Acquired: 3/16/2023 10:12:57 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230316\20230316-009.lcd
Vial: 11 | Inj. Volume: 25.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.367	661940	199463	23.9548	ng/mL	101.00 >85.00	34.49	21.77 -40.42
Sodium Perchlorate-18O4_IS	Auto	3.363	199463	199463	1.0000	ng/mL	----	----	

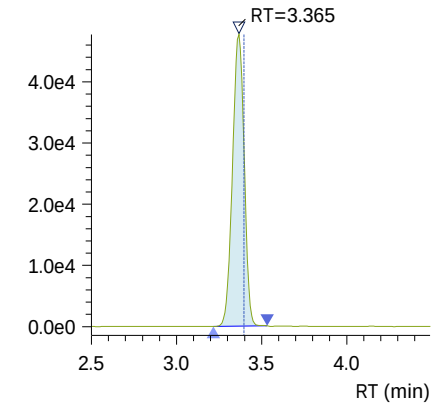
Perchlorate

Conc 23.9548
R#1 34.49 (31.10)

Q 99.00>83.00 (-) A=661940 1.39e5
RT=3.367



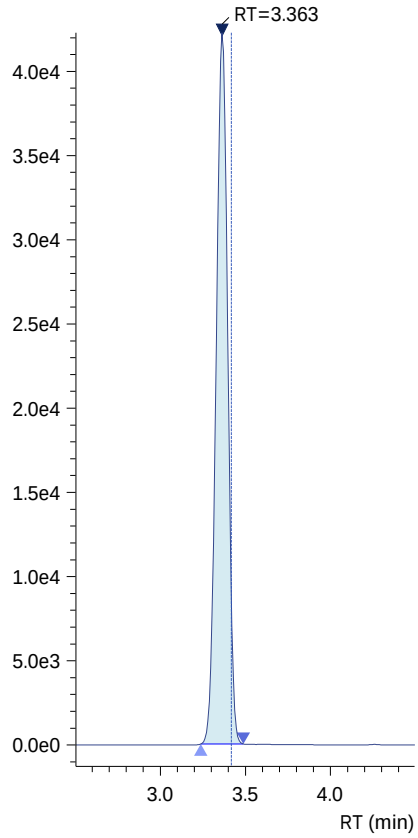
R1 101.00>85.00 (-) A=228299 4.77e4
RT=3.365



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=199463 4.23e4
RT=3.363



Insight Report

Printed at 3/16/2023 1:24:53 PM

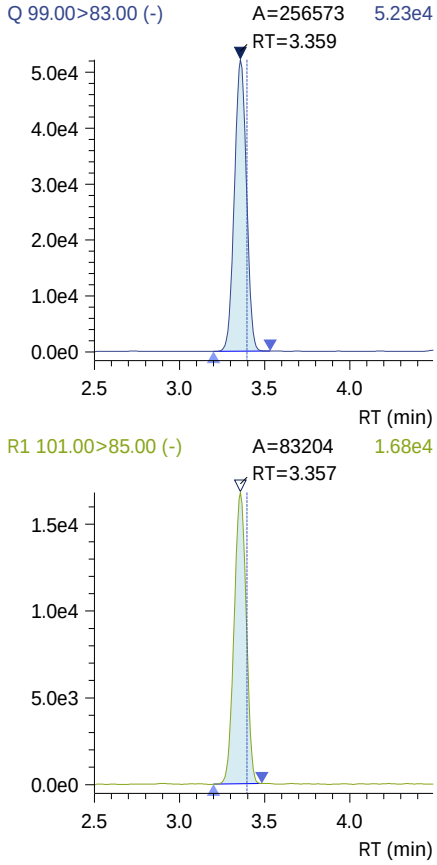
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 3/16/2023 11:04:36 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230316\20230316-014.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.359	2565 73	170210	10.8 808	ng/mL	101.00 >85.00	32.43	21.77 -40.42
Sodium Perchlorate-18O4_IS	Auto	3.355	1702 10	170210	1.0000	ng/mL	----	----	

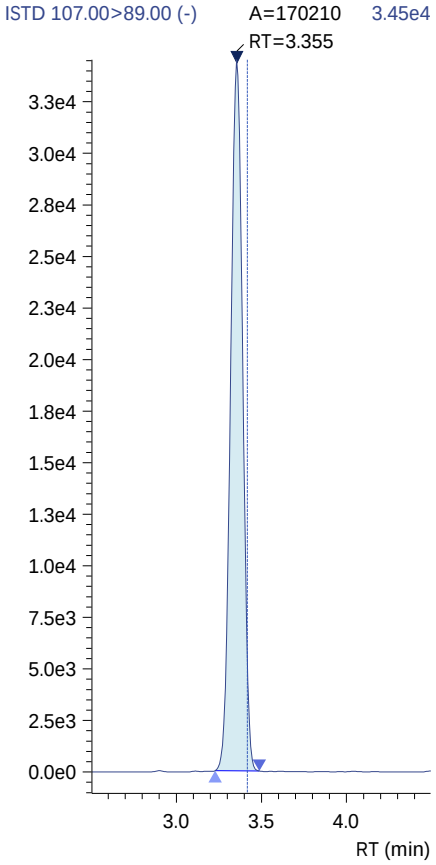
Perchlorate

Conc 10.8808
R#1 32.43 (31.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/16/2023 1:24:53 PM

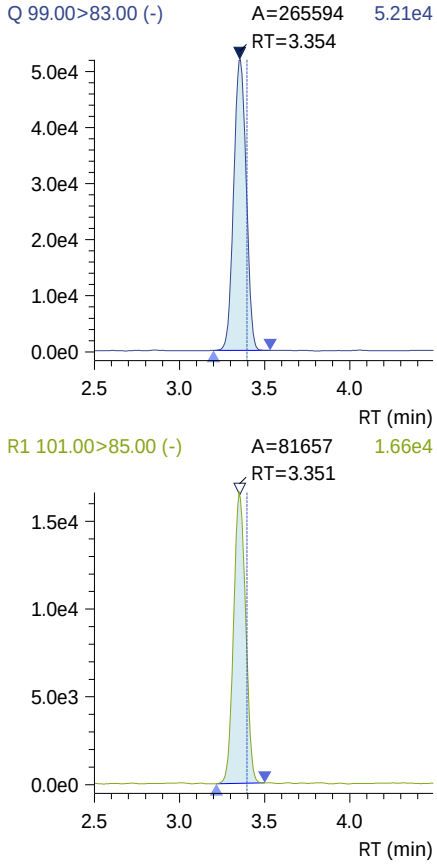
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 3/16/2023 12:10:14 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230316\20230316-025.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.354	265594 476	168948	11.3	ng/mL	101.00 >85.00	30.75	21.77 -40.42
Sodium Perchlorate-18O4_IS	Auto	3.353	168948	168948	1.0000	ng/mL	----	----	

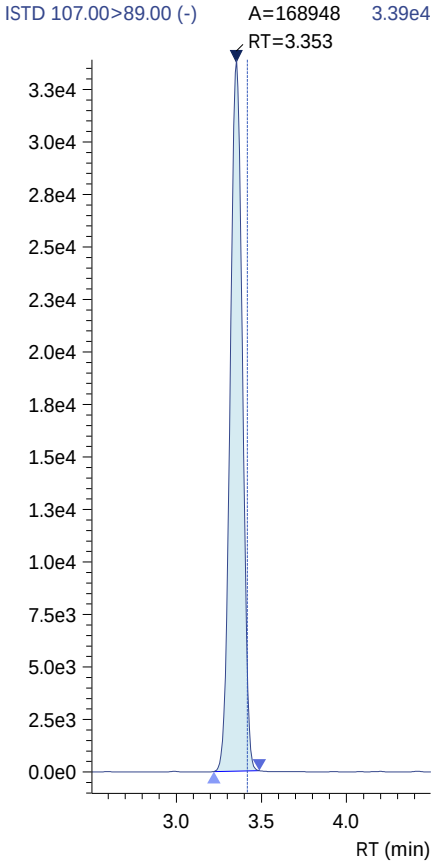
Perchlorate

Conc 11.3476
R#1 30.75 (31.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/16/2023 1:24:53 PM

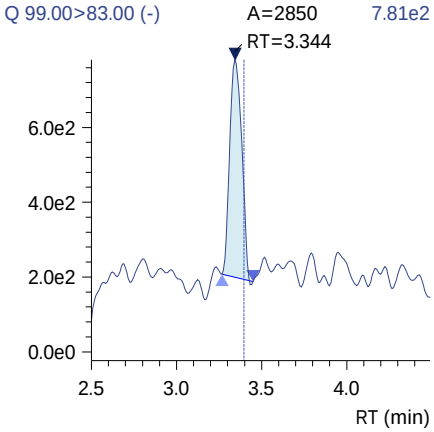
EQ2300131-01

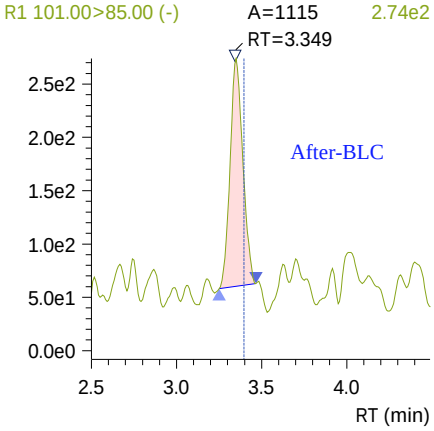
Sample ID: EQ2300131-01
Date Acquired: 3/16/2023 12:21:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230316\20230316-027.lcd
Vial: 48 | Inj. Volume: 25.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI R1	3.344	2850	200597	0.1026	ng/mL	101.00 >85.00	39.11	21.77 -40.42
Sodium Perchlorate-18O4_IS	Auto	3.352	200597	200597	1.0000	ng/mL	----	----	

Perchlorate

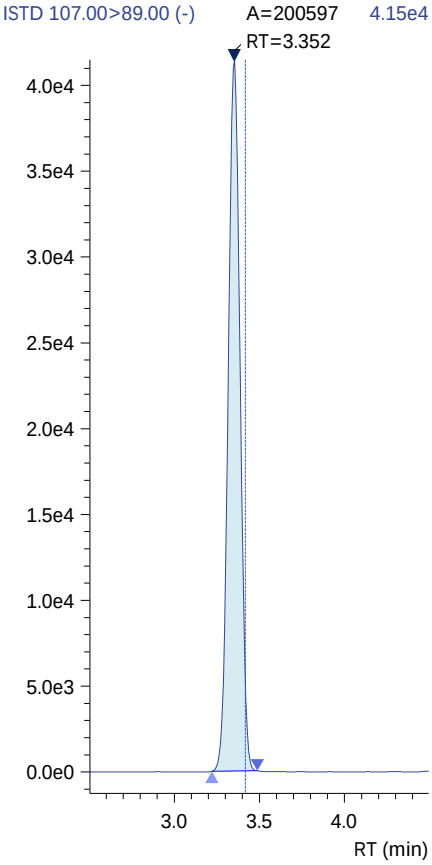
Conc 0.1026
R#1 39.11 (31.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/16/2023 1:26:23 PM

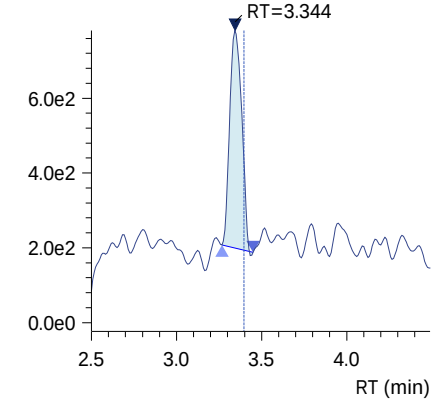
EQ2300131-01

Sample ID: EQ2300131-01
Date Acquired: 3/16/2023 12:21:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230316\20230316-027.lcd
Vial: 48 | Inj. Volume: 25.0000uL | Tray: 4

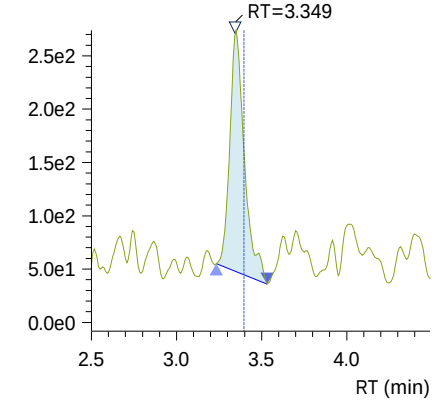
Perchlorate

Conc 0.1015
R#1 47.48 (31.10)

Q 99.00>83.00 (-) A=2850 7.81e2 RT=3.344



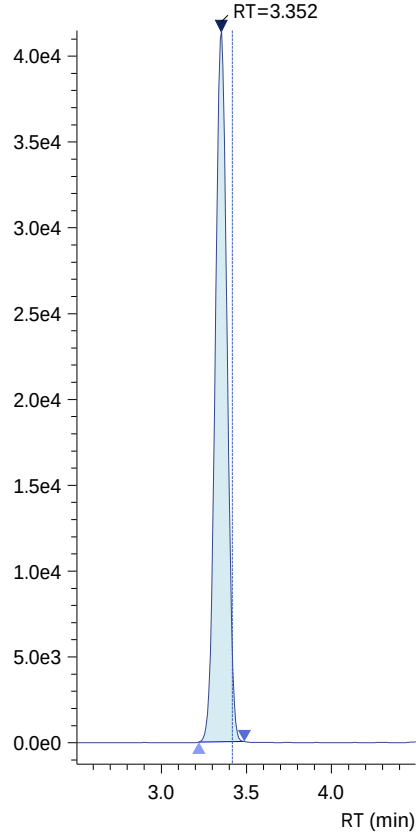
R1 101.00>85.00 (-) A=1353 2.74e2 RT=3.349



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=200597 4.15e4 RT=3.352



Insight Report

Printed at 3/16/2023 1:24:53 PM

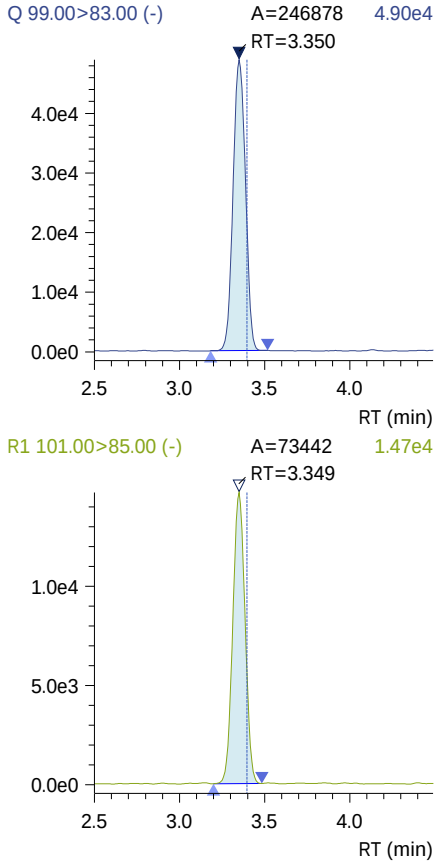
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 3/16/2023 1:14:07 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230316\20230316-036.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.350	246878 78	170281	10.4 653	ng/mL	101.00 >85.00	29.75	21.77 -40.42
Sodium Perchlorate-18O4_IS	Auto	3.350	170281	170281	1.0000	ng/mL	----	----	

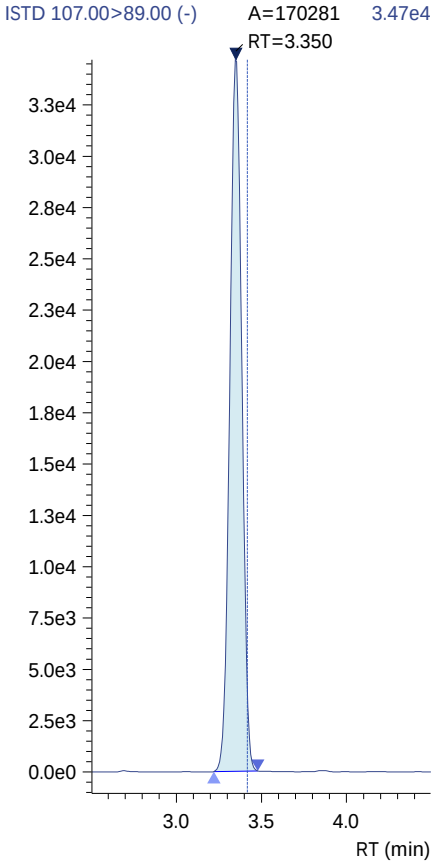
Perchlorate

Conc 10.4653
R#1 29.75 (31.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



HS23030818 Longhorn GW Treatment Plant BiWeekly Samples Cover Page

ALS WO# HS23030818

ALS Environmental
ALS Group USA, Corp
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right solutions.
right partner.

WorkOrder: HS23030818

Longhorn GW Treatment Plant Bi-Weekly Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

24-Mar-2023

HS23030818 Longhorn GW Treatment Plant BiWeekly Samples Final

ALS WO# HS23030818

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

March 20, 2023

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS23030818**

Laboratory Results for: **Longhorn GW Treatment Plant Bi-Weekly Samples**

Dear Marcia Olive,

ALS Environmental received 2 sample(s) on Mar 15, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Dane J. Wacasey

ALS Houston, US Date: 20-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
Work Order: HS23030818

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23030818-01	LH18/24-SP650_031423	Water		14-Mar-2023 13:00	15-Mar-2023 09:45	☐
HS23030818-02	Trip Blank	Water	CG-102122-676	14-Mar-2023 13:00	15-Mar-2023 09:45	☐

ALS Houston, US Date: 20-Mar-23

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
Work Order: HS23030818

GCMS Volatiles by Method SW8260

Batch ID: R430439

Sample ID: HS23030822-01MS

- MS/MSD was performed on an unrelated sample.

WetChemistry by Method SW9056

Batch ID: R430426

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 20-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
Sample ID: LH18/24-SP650_031423
Collection Date: 14-Mar-2023 13:00

ANALYTICAL REPORT
WorkOrder:HS23030818
Lab ID:HS23030818-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 15:48
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Mar-2023 15:48
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 15:48
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 15:48
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Mar-2023 15:48
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Mar-2023 15:48
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	19-Mar-2023 15:48
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 15:48
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 15:48
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	19-Mar-2023 15:48
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 15:48
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Mar-2023 15:48
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Mar-2023 15:48
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Mar-2023 15:48
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 15:48
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	19-Mar-2023 15:48
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	19-Mar-2023 15:48
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Mar-2023 15:48
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	19-Mar-2023 15:48
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	19-Mar-2023 15:48
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	19-Mar-2023 15:48
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 15:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 20-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
Sample ID: LH18/24-SP650_031423
Collection Date: 14-Mar-2023 13:00

ANALYTICAL REPORT
WorkOrder:HS23030818
Lab ID:HS23030818-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 15:48
cis-1,2-Dichloroethene	**1.4**		**0.20**	**1.0**	**1.0**	**ug/L**	1	19-Mar-2023 15:48
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	19-Mar-2023 15:48
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	19-Mar-2023 15:48
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Mar-2023 15:48
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 15:48
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 15:48
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 15:48
Surr: 1,2-Dichloroethane-d4	*90.0*			**0**	*81-118*	*%REC*	*1*	*19-Mar-2023 15:48*
Surr: 4-Bromofluorobenzene	*101*			**0**	*85-114*	*%REC*	*1*	*19-Mar-2023 15:48*
Surr: Dibromofluoromethane	*90.6*			**0**	*80-119*	*%REC*	*1*	*19-Mar-2023 15:48*
Surr: Toluene-d8	*106*			**0**	*89-112*	*%REC*	*1*	*19-Mar-2023 15:48*
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**763**		**2.00**	**2.50**	**5.00**	**mg/L**	10	20-Mar-2023 10:56
Sulfate	**45.9**		**2.00**	**2.50**	**5.00**	**mg/L**	10	20-Mar-2023 10:56

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 20-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
Sample ID: Trip Blank
Collection Date: 14-Mar-2023 13:00

ANALYTICAL REPORT
WorkOrder:HS23030818
Lab ID:HS23030818-02
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Mar-2023 14:45
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Mar-2023 14:45
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Mar-2023 14:45
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	19-Mar-2023 14:45
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	19-Mar-2023 14:45
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Mar-2023 14:45
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Mar-2023 14:45
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Mar-2023 14:45
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	19-Mar-2023 14:45
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	19-Mar-2023 14:45
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Mar-2023 14:45
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	19-Mar-2023 14:45
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	19-Mar-2023 14:45
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	19-Mar-2023 14:45
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 20-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
Sample ID: Trip Blank
Collection Date: 14-Mar-2023 13:00

ANALYTICAL REPORT
WorkOrder:HS23030818
Lab ID:HS23030818-02
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	19-Mar-2023 14:45
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	19-Mar-2023 14:45
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Mar-2023 14:45
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	19-Mar-2023 14:45
Surr: 1,2-Dichloroethane-d4	*87.3*			**0**	*81-118*	*%REC*	*1*	*19-Mar-2023 14:45*
Surr: 4-Bromofluorobenzene	*100*			**0**	*85-114*	*%REC*	*1*	*19-Mar-2023 14:45*
Surr: Dibromofluoromethane	*91.5*			**0**	*80-119*	*%REC*	*1*	*19-Mar-2023 14:45*
Surr: Toluene-d8	*95.7*			**0**	*89-112*	*%REC*	*1*	*19-Mar-2023 14:45*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 20-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23030818

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R430426 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS23030818-01	LH18/24-SP650_031423	14 Mar 2023 13:00			20 Mar 2023 10:56	10
Batch ID: R430439 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23030818-01	LH18/24-SP650_031423	14 Mar 2023 13:00			19 Mar 2023 15:48	1
HS23030818-02	Trip Blank	14 Mar 2023 13:00			19 Mar 2023 14:45	1

ALS Houston, US Date: 20-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23030818

QC BATCH REPORT

Batch ID: R430439 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230319** Units: **ug/L** Analysis Date: **19-Mar-2023 14:24**
Client ID: Run ID: **VOA6_430439** SeqNo: **7182610** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0								U
1,1,1-Trichloroethane	1.0	1.0								U
1,1,2,2-Tetrachloroethane	1.0	1.0								U
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,1-Dichloropropene	1.0	1.0								U
1,2,3-Trichlorobenzene	1.0	1.0								U
1,2,3-Trichloropropane	1.0	1.0								U
1,2,4-Trichlorobenzene	1.0	1.0								U
1,2,4-Trimethylbenzene	1.0	1.0								U
1,2-Dibromo-3-chloropropane	1.0	1.0								U
1,2-Dibromoethane	1.0	1.0								U
1,2-Dichlorobenzene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
1,2-Dichloropropane	1.0	1.0								U
1,3,5-Trimethylbenzene	1.0	1.0								U
1,3-Dichlorobenzene	1.0	1.0								U
1,3-Dichloropropane	1.0	1.0								U
1,4-Dichlorobenzene	1.0	1.0								U
2,2-Dichloropropane	1.0	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	1.0	1.0								U
2-Hexanone	1.0	2.0								U
4-Chlorotoluene	1.0	1.0								U
4-Isopropyltoluene	1.0	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	1.0	2.0								U
Benzene	1.0	1.0								U
Bromobenzene	1.0	1.0								U
Bromochloromethane	1.0	1.0								U
Bromodichloromethane	1.0	1.0								U
Bromoform	1.0	1.0								U
Bromomethane	1.0	1.0								U

ALS Houston, US Date: 20-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23030818

QC BATCH REPORT

Batch ID: R430439 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230319** Units: **ug/L** Analysis Date: **19-Mar-2023 14:24**
Client ID: Run ID: **VOA6_430439** SeqNo: **7182610** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	1.0	2.0								U
Carbon tetrachloride	1.0	1.0								U
Chlorobenzene	1.0	1.0								U
Chloroethane	1.0	1.0								U
Chloroform	1.0	1.0								U
Chloromethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
cis-1,3-Dichloropropene	1.0	1.0								U
Dibromochloromethane	1.0	1.0								U
Dibromomethane	1.0	1.0								U
Dichlorodifluoromethane	1.0	1.0								U
Ethylbenzene	1.0	1.0								U
Hexachlorobutadiene	1.0	1.0								U
Isopropylbenzene	1.0	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	1.0	2.0								U
Naphthalene	1.0	1.0								U
n-Butylbenzene	1.0	1.0								U
n-Propylbenzene	1.0	1.0								U
o-Xylene	1.0	1.0								U
sec-Butylbenzene	1.0	1.0								U
Styrene	1.0	1.0								U
tert-Butylbenzene	1.0	1.0								U
Tetrachloroethene	1.0	1.0								U
Toluene	1.0	1.0								U
trans-1,2-Dichloroethene	1.0	1.0								U
trans-1,3-Dichloropropene	1.0	1.0								U
Trichloroethene	1.0	1.0								U
Trichlorofluoromethane	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*45.92*	*1.0*	*50*	*0*	*91.8*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51*	*1.0*	*50*	*0*	*102*	*85 - 114*				
Surr: Dibromofluoromethane	*46.35*	*1.0*	*50*	*0*	*92.7*	*80 - 119*				
Surr: Toluene-d8	*52.31*	*1.0*	*50*	*0*	*105*	*89 - 112*				

ALS Houston, US Date: 20-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23030818

QC BATCH REPORT

Batch ID: R430439 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230319** Units: **ug/L** Analysis Date: **19-Mar-2023 13:42**
Client ID: Run ID: **VOA6_430439** SeqNo: **7182609** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.26	1.0	20	0	101	78 - 124				
1,1,1-Trichloroethane	21.12	1.0	20	0	106	74 - 131				
1,1,2,2-Tetrachloroethane	20.58	1.0	20	0	103	71 - 121				
1,1,2-Trichloroethane	19.83	1.0	20	0	99.1	80 - 119				
1,1-Dichloroethane	20.33	1.0	20	0	102	77 - 125				
1,1-Dichloroethene	18.43	1.0	20	0	92.1	71 - 131				
1,1-Dichloropropene	19.52	1.0	20	0	97.6	78 - 125				
1,2,3-Trichlorobenzene	17.71	1.0	20	0	88.6	69 - 129				
1,2,3-Trichloropropane	20.37	1.0	20	0	102	73 - 122				
1,2,4-Trichlorobenzene	17.83	1.0	20	0	89.2	69 - 130				
1,2,4-Trimethylbenzene	18.24	1.0	20	0	91.2	76 - 124				
1,2-Dibromo-3-chloropropane	20.09	1.0	20	0	100	62 - 128				
1,2-Dibromoethane	21.18	1.0	20	0	106	77 - 121				
1,2-Dichlorobenzene	19.7	1.0	20	0	98.5	80 - 119				
1,2-Dichloroethane	21.46	1.0	20	0	107	73 - 128				
1,2-Dichloropropane	19.85	1.0	20	0	99.2	78 - 122				
1,3,5-Trimethylbenzene	17.74	1.0	20	0	88.7	75 - 124				
1,3-Dichlorobenzene	18.75	1.0	20	0	93.8	80 - 119				
1,3-Dichloropropane	20.82	1.0	20	0	104	80 - 119				
1,4-Dichlorobenzene	18.75	1.0	20	0	93.8	79 - 118				
2,2-Dichloropropane	22.61	1.0	20	0	113	60 - 139				
2-Butanone	38.24	2.0	40	0	95.6	56 - 143				
2-Chlorotoluene	19.48	1.0	20	0	97.4	79 - 122				
2-Hexanone	43.94	2.0	40	0	110	57 - 139				
4-Chlorotoluene	19.82	1.0	20	0	99.1	78 - 122				
4-Isopropyltoluene	17.21	1.0	20	0	86.0	77 - 127				
4-Methyl-2-pentanone	43.77	2.0	40	0	109	67 - 130				
Acetone	36.02	2.0	40	0	90.1	39 - 160				
Benzene	19.84	1.0	20	0	99.2	79 - 120				
Bromobenzene	20.12	1.0	20	0	101	80 - 120				
Bromochloromethane	19.62	1.0	20	0	98.1	78 - 123				
Bromodichloromethane	21.31	1.0	20	0	107	79 - 125				
Bromoform	20.9	1.0	20	0	105	66 - 130				
Bromomethane	24.25	1.0	20	0	121	53 - 141				

ALS Houston, US Date: 20-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23030818

QC BATCH REPORT

Batch ID: R430439 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230319** Units: **ug/L** Analysis Date: **19-Mar-2023 13:42**
Client ID: Run ID: **VOA6_430439** SeqNo: **7182609** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	34.7	2.0	40	0	86.7	64 - 133				
Carbon tetrachloride	19.72	1.0	20	0	98.6	72 - 136				
Chlorobenzene	20.18	1.0	20	0	101	82 - 118				
Chloroethane	18.73	1.0	20	0	93.6	60 - 138				
Chloroform	20.67	1.0	20	0	103	79 - 124				
Chloromethane	21.29	1.0	20	0	106	50 - 139				
cis-1,2-Dichloroethene	20.5	1.0	20	0	102	78 - 123				
cis-1,3-Dichloropropene	20.64	1.0	20	0	103	75 - 124				
Dibromochloromethane	20.46	1.0	20	0	102	74 - 126				
Dibromomethane	20.98	1.0	20	0	105	79 - 123				
Dichlorodifluoromethane	20.16	1.0	20	0	101	32 - 152				
Ethylbenzene	19.03	1.0	20	0	95.2	79 - 121				
Hexachlorobutadiene	17.55	1.0	20	0	87.7	66 - 134				
Isopropylbenzene	17.92	1.0	20	0	89.6	72 - 131				
m,p-Xylene	37.73	2.0	40	0	94.3	80 - 121				
Methylene chloride	20.33	2.0	20	0	102	74 - 124				
Naphthalene	19.42	1.0	20	0	97.1	61 - 128				
n-Butylbenzene	18.09	1.0	20	0	90.5	75 - 128				
n-Propylbenzene	18.04	1.0	20	0	90.2	76 - 126				
o-Xylene	19.25	1.0	20	0	96.2	78 - 122				
sec-Butylbenzene	16.45	1.0	20	0	82.2	77 - 126				
Styrene	20.46	1.0	20	0	102	78 - 123				
tert-Butylbenzene	17.03	1.0	20	0	85.2	78 - 124				
Tetrachloroethene	19.09	1.0	20	0	95.5	74 - 129				
Toluene	20.61	1.0	20	0	103	80 - 121				
trans-1,2-Dichloroethene	20.24	1.0	20	0	101	75 - 124				
trans-1,3-Dichloropropene	21.23	1.0	20	0	106	73 - 127				
Trichloroethene	19.7	1.0	20	0	98.5	79 - 123				
Trichlorofluoromethane	20.49	1.0	20	0	102	65 - 141				
Vinyl chloride	20.96	1.0	20	0	105	58 - 137				
Surr: 1,2-Dichloroethane-d4	*56.6*	*1.0*	*50*	*0*	*113*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*52.65*	*1.0*	*50*	*0*	*105*	*85 - 114*				
Surr: Dibromofluoromethane	*53.83*	*1.0*	*50*	*0*	*108*	*80 - 119*				
Surr: Toluene-d8	*49.42*	*1.0*	*50*	*0*	*98.8*	*89 - 112*				

ALS Houston, US Date: 20-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23030818

QC BATCH REPORT

Batch ID: R430439 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23030822-01MS** Units: **ug/L** Analysis Date: **19-Mar-2023 17:54**
Client ID: Run ID: **VOA6_430439** SeqNo: **7182617** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.35	1.0	20	0	96.7	78 - 124				
1,1,1-Trichloroethane	20.19	1.0	20	0	101	74 - 131				
1,1,2,2-Tetrachloroethane	19.71	1.0	20	0	98.5	71 - 121				
1,1,2-Trichloroethane	18.66	1.0	20	0	93.3	80 - 119				
1,1-Dichloroethane	17.35	1.0	20	0	86.7	77 - 125				
1,1-Dichloroethene	17.23	1.0	20	0	86.1	71 - 131				
1,1-Dichloropropene	21.56	1.0	20	0	108	78 - 125				
1,2,3-Trichlorobenzene	20.27	1.0	20	0	101	69 - 129				
1,2,3-Trichloropropane	19.39	1.0	20	0	96.9	73 - 122				
1,2,4-Trichlorobenzene	20.39	1.0	20	0	102	69 - 130				
1,2,4-Trimethylbenzene	22.32	1.0	20	0	112	76 - 124				
1,2-Dibromo-3-chloropropane	20.1	1.0	20	0	101	62 - 128				
1,2-Dibromoethane	20.22	1.0	20	0	101	77 - 121				
1,2-Dichlorobenzene	21.26	1.0	20	0	106	80 - 119				
1,2-Dichloroethane	19.9	1.0	20	0	99.5	73 - 128				
1,2-Dichloropropane	17.69	1.0	20	0	88.5	78 - 122				
1,3,5-Trimethylbenzene	22.31	1.0	20	0	112	75 - 124				
1,3-Dichlorobenzene	21.12	1.0	20	0	106	80 - 119				
1,3-Dichloropropane	19.91	1.0	20	0	99.5	80 - 119				
1,4-Dichlorobenzene	20.46	1.0	20	0	102	79 - 118				
2,2-Dichloropropane	19.9	1.0	20	0	99.5	60 - 139				
2-Butanone	26.98	2.0	40	0	67.5	56 - 143				
2-Chlorotoluene	22.27	1.0	20	0	111	79 - 122				
2-Hexanone	38.77	2.0	40	0	96.9	57 - 139				
4-Chlorotoluene	22.22	1.0	20	0	111	78 - 122				
4-Isopropyltoluene	23.91	1.0	20	0	120	77 - 127				
4-Methyl-2-pentanone	39.61	2.0	40	0	99.0	67 - 130				
Acetone	21.18	2.0	40	0	52.9	39 - 160				
Benzene	18.46	1.0	20	0	92.3	79 - 120				
Bromobenzene	20.79	1.0	20	0	104	80 - 120				
Bromochloromethane	15.79	1.0	20	0	79.0	78 - 123				
Bromodichloromethane	18.98	1.0	20	0	94.9	79 - 125				
Bromoform	19.33	1.0	20	0	96.7	66 - 130				
Bromomethane	10.73	1.0	20	0	53.7	53 - 141				

ALS Houston, US Date: 20-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23030818

QC BATCH REPORT

Batch ID: R430439 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23030822-01MS** Units: **ug/L** Analysis Date: **19-Mar-2023 17:54**
Client ID: Run ID: **VOA6_430439** SeqNo: **7182617** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	35.29	2.0	40	0	88.2	64 - 133				
Carbon tetrachloride	22.85	1.0	20	0	114	72 - 136				
Chlorobenzene	20.34	1.0	20	0	102	82 - 118				
Chloroethane	15.89	1.0	20	0	79.4	60 - 138				
Chloroform	17.14	1.0	20	0	85.7	79 - 124				
Chloromethane	19.23	1.0	20	0	96.2	50 - 139				
cis-1,2-Dichloroethene	18.82	1.0	20	0	94.1	78 - 123				
cis-1,3-Dichloropropene	17.82	1.0	20	0	89.1	75 - 124				
Dibromochloromethane	19.32	1.0	20	0	96.6	74 - 126				
Dibromomethane	18.43	1.0	20	0	92.1	79 - 123				
Dichlorodifluoromethane	15.4	1.0	20	0	77.0	32 - 152				
Ethylbenzene	20.78	1.0	20	0	104	79 - 121				
Hexachlorobutadiene	24.41	1.0	20	0	122	66 - 134				
Isopropylbenzene	22.31	1.0	20	0	112	72 - 131				
m,p-Xylene	41.9	2.0	40	0	105	80 - 121				
Methylene chloride	14.38	2.0	20	0	71.9	74 - 124				S
Naphthalene	20.69	1.0	20	0	103	61 - 128				
n-Butylbenzene	25.76	1.0	20	0	129	75 - 128				S
n-Propylbenzene	23.6	1.0	20	0	118	76 - 126				
o-Xylene	20.31	1.0	20	0	102	78 - 122				
sec-Butylbenzene	24.39	1.0	20	0	122	77 - 126				
Styrene	20.62	1.0	20	0	103	78 - 123				
tert-Butylbenzene	23.79	1.0	20	0	119	78 - 124				
Tetrachloroethene	24.9	1.0	20	0	125	74 - 129				
Toluene	21.19	1.0	20	0	106	80 - 121				
trans-1,2-Dichloroethene	17.55	1.0	20	0	87.7	75 - 124				
trans-1,3-Dichloropropene	18.46	1.0	20	0	92.3	73 - 127				
Trichloroethene	23.45	1.0	20	0	117	79 - 123				
Trichlorofluoromethane	19.12	1.0	20	0	95.6	65 - 141				
Vinyl chloride	17.71	1.0	20	0	88.6	58 - 137				
Surr: 1,2-Dichloroethane-d4	*46.31*	*1.0*	*50*	*0*	*92.6*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*50.62*	*1.0*	*50*	*0*	*101*	*85 - 114*				
Surr: Dibromofluoromethane	*45.75*	*1.0*	*50*	*0*	*91.5*	*80 - 119*				
Surr: Toluene-d8	*52.43*	*1.0*	*50*	*0*	*105*	*89 - 112*				

ALS Houston, US Date: 20-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23030818

QC BATCH REPORT

Batch ID: R430439 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23030822-01MSD** Units: **ug/L** Analysis Date: **19-Mar-2023 18:15**
Client ID: Run ID: **VOA6_430439** SeqNo: **7182618** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.77	1.0	20	0	104	78 - 124	19.35	7.08	20	
1,1,1-Trichloroethane	20.75	1.0	20	0	104	74 - 131	20.19	2.74	20	
1,1,2,2-Tetrachloroethane	20.55	1.0	20	0	103	71 - 121	19.71	4.2	20	
1,1,2-Trichloroethane	19.94	1.0	20	0	99.7	80 - 119	18.66	6.62	20	
1,1-Dichloroethane	18.13	1.0	20	0	90.6	77 - 125	17.35	4.41	20	
1,1-Dichloroethene	17.7	1.0	20	0	88.5	71 - 131	17.23	2.73	20	
1,1-Dichloropropene	22.34	1.0	20	0	112	78 - 125	21.56	3.54	20	
1,2,3-Trichlorobenzene	21.56	1.0	20	0	108	69 - 129	20.27	6.16	20	
1,2,3-Trichloropropane	20.22	1.0	20	0	101	73 - 122	19.39	4.19	20	
1,2,4-Trichlorobenzene	21.98	1.0	20	0	110	69 - 130	20.39	7.52	20	
1,2,4-Trimethylbenzene	23.14	1.0	20	0	116	76 - 124	22.32	3.62	20	
1,2-Dibromo-3-chloropropane	20.12	1.0	20	0	101	62 - 128	20.1	0.0702	20	
1,2-Dibromoethane	21.34	1.0	20	0	107	77 - 121	20.22	5.4	20	
1,2-Dichlorobenzene	22.11	1.0	20	0	111	80 - 119	21.26	3.93	20	
1,2-Dichloroethane	20.83	1.0	20	0	104	73 - 128	19.9	4.6	20	
1,2-Dichloropropane	19.2	1.0	20	0	96.0	78 - 122	17.69	8.16	20	
1,3,5-Trimethylbenzene	23.24	1.0	20	0	116	75 - 124	22.31	4.09	20	
1,3-Dichlorobenzene	21.98	1.0	20	0	110	80 - 119	21.12	4	20	
1,3-Dichloropropane	21.21	1.0	20	0	106	80 - 119	19.91	6.34	20	
1,4-Dichlorobenzene	21.53	1.0	20	0	108	79 - 118	20.46	5.11	20	
2,2-Dichloropropane	20.46	1.0	20	0	102	60 - 139	19.9	2.8	20	
2-Butanone	31.32	2.0	40	0	78.3	56 - 143	26.98	14.9	20	
2-Chlorotoluene	22.62	1.0	20	0	113	79 - 122	22.27	1.57	20	
2-Hexanone	41.18	2.0	40	0	103	57 - 139	38.77	6.02	20	
4-Chlorotoluene	23.46	1.0	20	0	117	78 - 122	22.22	5.43	20	
4-Isopropyltoluene	24.6	1.0	20	0	123	77 - 127	23.91	2.86	20	
4-Methyl-2-pentanone	41.64	2.0	40	0	104	67 - 130	39.61	4.99	20	
Acetone	22.21	2.0	40	0	55.5	39 - 160	21.18	4.77	20	
Benzene	19.69	1.0	20	0	98.5	79 - 120	18.46	6.49	20	
Bromobenzene	21.89	1.0	20	0	109	80 - 120	20.79	5.14	20	
Bromochloromethane	17.21	1.0	20	0	86.1	78 - 123	15.79	8.61	20	
Bromodichloromethane	20.5	1.0	20	0	102	79 - 125	18.98	7.66	20	
Bromoform	20.17	1.0	20	0	101	66 - 130	19.33	4.23	20	
Bromomethane	13.35	1.0	20	0	66.8	53 - 141	10.73	21.8	20	R

ALS Houston, US Date: 20-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23030818

QC BATCH REPORT

Batch ID: R430439 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23030822-01MSD** Units: **ug/L** Analysis Date: **19-Mar-2023 18:15**
Client ID: Run ID: **VOA6_430439** SeqNo: **7182618** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	34.91	2.0	40	0	87.3	64 - 133	35.29	1.07	20	
Carbon tetrachloride	23.31	1.0	20	0	117	72 - 136	22.85	1.99	20	
Chlorobenzene	21.6	1.0	20	0	108	82 - 118	20.34	5.99	20	
Chloroethane	15.96	1.0	20	0	79.8	60 - 138	15.89	0.455	20	
Chloroform	18.52	1.0	20	0	92.6	79 - 124	17.14	7.69	20	
Chloromethane	19.11	1.0	20	0	95.6	50 - 139	19.23	0.624	20	
cis-1,2-Dichloroethene	18.88	1.0	20	0	94.4	78 - 123	18.82	0.348	20	
cis-1,3-Dichloropropene	19.28	1.0	20	0	96.4	75 - 124	17.82	7.86	20	
Dibromochloromethane	20.85	1.0	20	0	104	74 - 126	19.32	7.61	20	
Dibromomethane	19.97	1.0	20	0	99.8	79 - 123	18.43	8.01	20	
Dichlorodifluoromethane	15.2	1.0	20	0	76.0	32 - 152	15.4	1.28	20	
Ethylbenzene	21.66	1.0	20	0	108	79 - 121	20.78	4.16	20	
Hexachlorobutadiene	25.29	1.0	20	0	126	66 - 134	24.41	3.52	20	
Isopropylbenzene	23.12	1.0	20	0	116	72 - 131	22.31	3.57	20	
m,p-Xylene	43.99	2.0	40	0	110	80 - 121	41.9	4.85	20	
Methylene chloride	17.19	2.0	20	0	86.0	74 - 124	14.38	17.8	20	
Naphthalene	21.5	1.0	20	0	107	61 - 128	20.69	3.81	20	
n-Butylbenzene	26.63	1.0	20	0	133	75 - 128	25.76	3.32	20	S
n-Propylbenzene	24.31	1.0	20	0	122	76 - 126	23.6	2.97	20	
o-Xylene	21.44	1.0	20	0	107	78 - 122	20.31	5.44	20	
sec-Butylbenzene	24.79	1.0	20	0	124	77 - 126	24.39	1.6	20	
Styrene	21.82	1.0	20	0	109	78 - 123	20.62	5.66	20	
tert-Butylbenzene	24.43	1.0	20	0	122	78 - 124	23.79	2.63	20	
Tetrachloroethene	24.78	1.0	20	0	124	74 - 129	24.9	0.494	20	
Toluene	22.15	1.0	20	0	111	80 - 121	21.19	4.42	20	
trans-1,2-Dichloroethene	17.92	1.0	20	0	89.6	75 - 124	17.55	2.1	20	
trans-1,3-Dichloropropene	19.77	1.0	20	0	98.9	73 - 127	18.46	6.85	20	
Trichloroethene	22.09	1.0	20	0	110	79 - 123	23.45	5.98	20	
Trichlorofluoromethane	21.42	1.0	20	0	107	65 - 141	19.12	11.3	20	
Vinyl chloride	18.41	1.0	20	0	92.0	58 - 137	17.71	3.83	20	
Surr: 1,2-Dichloroethane-d4	*44.67*	*1.0*	*50*	*0*	*89.3*	*81 - 118*	*46.31*	*3.62*	*20*	
Surr: 4-Bromofluorobenzene	*51.83*	*1.0*	*50*	*0*	*104*	*85 - 114*	*50.62*	*2.36*	*20*	
Surr: Dibromofluoromethane	*45.47*	*1.0*	*50*	*0*	*90.9*	*80 - 119*	*45.75*	*0.615*	*20*	
Surr: Toluene-d8	*51.81*	*1.0*	*50*	*0*	*104*	*89 - 112*	*52.43*	*1.18*	*20*	

ALS Houston, US Date: 20-Mar-23

Client:	Bhate Environmental Associates, Inc.
Project:	Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder:	HS23030818

QC BATCH REPORT

Batch ID:	**R430439 (0)**	**Instrument:**	**VOA6**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch: HS23030818-01 HS23030818-02

ALS Houston, US Date: 20-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23030818

QC BATCH REPORT

Batch ID: R430426 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **20-Mar-2023 09:34**
Client ID: Run ID: **ICS-Integrion_430426** SeqNo: **7182168** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.250	0.500								U
Sulfate	0.250	0.500								U

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **20-Mar-2023 09:40**
Client ID: Run ID: **ICS-Integrion_430426** SeqNo: **7182169** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.21	0.500	20	0	101	80 - 120				
Sulfate	20.54	0.500	20	0	103	80 - 120				

MS Sample ID: **HS23030537-01MS** Units: **mg/L** Analysis Date: **20-Mar-2023 09:52**
Client ID: Run ID: **ICS-Integrion_430426** SeqNo: **7182171** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	35.82	0.500	10	26.04	97.7	80 - 120				
Sulfate	24.58	0.500	10	14.74	98.4	80 - 120				

MSD Sample ID: **HS23030537-01MSD** Units: **mg/L** Analysis Date: **20-Mar-2023 09:58**
Client ID: Run ID: **ICS-Integrion_430426** SeqNo: **7182172** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	35.83	0.500	10	26.04	97.9	80 - 120	35.82	0.0391	20	
Sulfate	24.6	0.500	10	14.74	98.7	80 - 120	24.58	0.0923	20	

The following samples were analyzed in this batch: HS23030818-01

ALS Houston, US Date: 20-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: **HS23030818**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	22-041-0	27-Mar-2023
California	2919 2022-2023	30-Apr-2023
Dept of Defense	L21-682	31-Dec-2023
Florida	E87611-36	30-Jun-2023
Illinois	2000322022-9	09-May-2023
Kansas	E-10352; 2022-2023	31-Jul-2023
Kentucky	123043, 2022-2023	30-Apr-2023
Louisiana	03087, 2022-2023	30-Jun-2023
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2022-2023	30-Apr-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-22-29	30-Apr-2023
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US Date: 20-Mar-23

Sample Receipt Checklist

Work Order ID: HS23030818 **Date/Time Received:** 15-Mar-2023 09:45

Client Name: Bhate Environmental **Received by:** Corey Grandits

Completed By:	/S/ Corey Grandits	15-Mar-2023 11:53	**Reviewed by:**	/S/ Dane J. Wacasey	20-Mar-2023 17:15
	eSignature	Date/Time		eSignature	Date/Time

Matrices: W Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	2.9UC/2.4C	IR31
Cooler(s)/Kit(s):	50196	
Date/Time sample(s) sent to storage:	3/15/23	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd. Suite 210, Houston, Tx. 77099 ATTN: Dane Wacasey

Project: BHATE
LONGHORN ARMY AMMN. PLANT (LHAAP)
GROUNDWATER TREATMENT PLANT (GWTP)
KARNACK, TEXAS

Project No. NWO1312.0150.0 16.0001

Job: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Prepared By: Scott Beesinger

P.O Number

HS23030818

Bhate Environmental Associates, Inc.
Longhorn GW Treatment Plant Bi-Weekly Samples

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analyses: VOC	Analyses: CHLORIDE, SULFATE	Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_031423	Water	03/14/23 / 13:00		3	3		HCL	
LH18/24-SP650_031423	Water	03/14/23 / 13:00		1		1	NONE	
Trip Blank	Water	03/14/23		2	2		HCL	

Additional Remarks: **Standard TAT on all parameters**

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	03/14/23	13:30		3-14-23	0945						

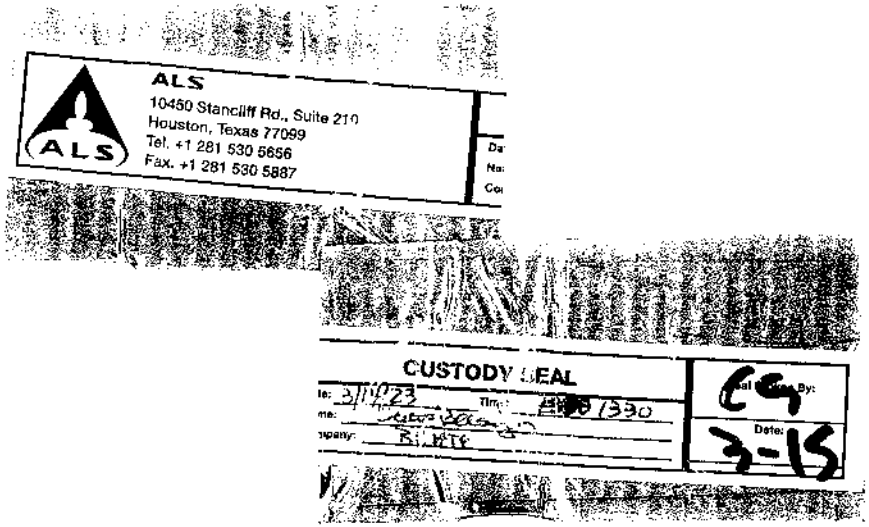
9For Lab Use Only

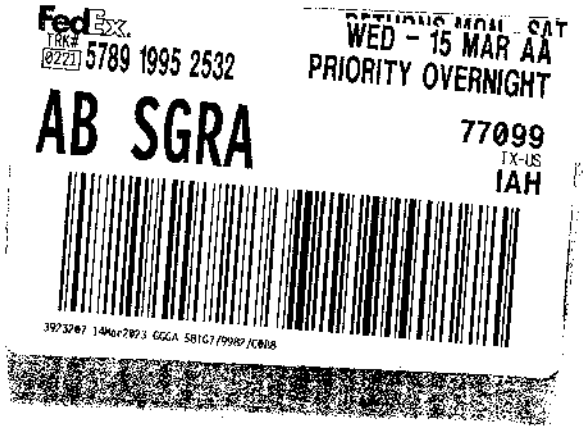
Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition

Remarks

1231 Soil 2.9

(Word) S:\1-ces\Forms\Chain of Custody - BiWeekly


ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887
CUSTODY SEAL
Date:
3-15


FedEx
TRK# 0221 5789 1995 2532
WED - 15 MAR AA
PRIORITY OVERNIGHT
AB SGRA
77099
TX-US
IAH

HS23030818-MSVOA-SW8260

ALS WO# HS23030818

01183747

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA 8260

Workorder

HS23030818

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

03/22/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder **HS23030818**

Volatiles by EPA 8260

HS23030818-01	Collected	Received	Matrix	Basis
LH18/24-SP650_031423	03/14/23 13:00	03/15/23 09:45	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder **HS23030818**

Volatiles by EPA 8260

HS23030818-01	Collected	Received	Matrix	Basis
LH18/24-SP650_031423	03/14/23 13:00	03/15/23 09:45	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
cis-1,2-Dichloroethene	ug/L	1.4		0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 15:48	VOA6_430439_R43043	X031911

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder **HS23030818**

Volatiles by EPA 8260

HS23030818-02	Collected	Received	Matrix	Basis
Trip Blank	03/14/23 13:00	03/15/23 09:45	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder **HS23030818**

Volatiles by EPA 8260

HS23030818-02	Collected	Received	Matrix	Basis
Trip Blank	03/14/23 13:00	03/15/23 09:45	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:45	VOA6_430439_R43043	X031908

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder **HS23030818**

Volatiles by EPA 8260

VBLKW-230319	Collected	Received	Matrix	Basis
VBLKW-230319	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder **HS23030818**

Volatiles by EPA 8260

VBLKW-230319	Collected	Received	Matrix	Basis
VBLKW-230319	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	03/19/23 14:24	VOA6_430439_R43043	X031907

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA 8260

Workorder

HS23030818

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

03/22/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder **HS23030818**

RunID VOA6_430439_R430439

Volatiles by EPA 8260

CCV	Analyzed 03/19/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	53.49	50	107	80-120	
4-Bromofluorobenzene	52.56	50	105	80-120	
Dibromofluoromethane	53.96	50	108	80-120	
Toluene-d8	49.26	50	98.5	80-120	

CCB	Analyzed 03/19/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	41.12	50	82.2	80-120	
4-Bromofluorobenzene	52.14	50	104	80-120	
Dibromofluoromethane	44.93	50	89.9	80-120	
Toluene-d8	53.75	50	108	80-120	

VLCSW-230319	Analyzed 03/19/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	56.6	50	113	81-118	
4-Bromofluorobenzene	52.65	50	105	85-114	
Dibromofluoromethane	53.83	50	108	80-119	
Toluene-d8	49.42	50	98.8	89-112	

VBLKW-230319	Analyzed 03/19/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	45.92	50	91.8	81-118	
4-Bromofluorobenzene	51	50	102	85-114	
Dibromofluoromethane	46.35	50	92.7	80-119	
Toluene-d8	52.31	50	105	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder
HS23030818

RunID
VOA6_430439_R430439

Volatiles by EPA 8260

HS23030818-02	Analyzed 03/19/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	44	50	87.3	81-118	
4-Bromofluorobenzene	50	50	100	85-114	
Dibromofluoromethane	46	50	91.5	80-119	
Toluene-d8	48	50	95.7	89-112	

HS23030818-01	Analyzed 03/19/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	45	50	90.0	81-118	
4-Bromofluorobenzene	50	50	101	85-114	
Dibromofluoromethane	45	50	90.6	80-119	
Toluene-d8	53	50	106	89-112	

HS23030822-01MS	Analyzed 03/19/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	46.31	50	92.6	81-118	
4-Bromofluorobenzene	50.62	50	101	85-114	
Dibromofluoromethane	45.75	50	91.5	80-119	
Toluene-d8	52.43	50	105	89-112	

HS23030822-01MSD	Analyzed 03/19/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	44.67	50	89.3	81-118	
4-Bromofluorobenzene	51.83	50	104	85-114	
Dibromofluoromethane	45.47	50	90.9	80-119	
Toluene-d8	51.81	50	104	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA 8260

Workorder

HS23030818

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

03/22/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder **HS23030818**

	HS23030822-01	HS23030822-01MS	HS23030822-01MSD	
Sample Matrix Aqueous	**Run Date** 03/19/23	03/19/23	03/19/23	
Units µg/L	**Run Time** 16:09	17:54	18:15	
	Data File X031912.D	X031917.D	X031918.D	

Analyte	%R Limits	DF	Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	1	0	19.35	20.00	97		20.77	20.00	104		20	7.10	
1,1,1-Trichloroethane	74-131	1	0	20.19	20.00	101		20.75	20.00	104		20	2.70	
1,1,2,2-Tetrachloroethane	71-121	1	0	19.71	20.00	99		20.55	20.00	103		20	4.20	
1,1,2-Trichloroethane	80-119	1	0	18.66	20.00	93		19.94	20.00	100		20	6.60	
1,1-Dichloroethane	77-125	1	0	17.35	20.00	87		18.13	20.00	91		20	4.40	
1,1-Dichloroethene	71-131	1	0	17.23	20.00	86		17.7	20.00	89		20	2.70	
1,1-Dichloropropene	78-125	1	0	21.56	20.00	108		22.34	20.00	112		20	3.50	
1,2,3-Trichlorobenzene	69-129	1	0	20.27	20.00	101		21.56	20.00	108		20	6.20	
1,2,3-Trichloropropane	73-122	1	0	19.39	20.00	97		20.22	20.00	101		20	4.20	
1,2,4-Trichlorobenzene	69-130	1	0	20.39	20.00	102		21.98	20.00	110		20	7.50	
1,2,4-Trimethylbenzene	76-124	1	0	22.32	20.00	112		23.14	20.00	116		20	3.60	
1,2-Dibromo-3-chloropropane	62-128	1	0	20.10	20.00	101		20.12	20.00	101		20	0.100	
1,2-Dibromoethane	77-121	1	0	20.22	20.00	101		21.34	20.00	107		20	5.40	
1,2-Dichlorobenzene	80-119	1	0	21.26	20.00	106		22.11	20.00	111		20	3.90	
1,2-Dichloroethane	73-128	1	0	19.90	20.00	100		20.83	20.00	104		20	4.60	
1,2-Dichloropropane	78-122	1	0	17.69	20.00	89		19.2	20.00	96		20	8.20	
1,3,5-Trimethylbenzene	75-124	1	0	22.31	20.00	112		23.24	20.00	116		20	4.10	
1,3-Dichlorobenzene	80-119	1	0	21.12	20.00	106		21.98	20.00	110		20	4.00	
1,3-Dichloropropane	80-119	1	0	19.91	20.00	100		21.21	20.00	106		20	6.30	
1,4-Dichlorobenzene	79-118	1	0	20.46	20.00	102		21.53	20.00	108		20	5.10	
2,2-Dichloropropane	60-139	1	0	19.90	20.00	100		20.46	20.00	102		20	2.80	
2-Butanone	56-143	1	0	26.98	40.00	68		31.32	40.00	78		20	14.9	
2-Chlorotoluene	79-122	1	0	22.27	20.00	111		22.62	20.00	113		20	1.60	
2-Hexanone	57-139	1	0	38.77	40.00	97		41.18	40.00	103		20	6.00	
4-Chlorotoluene	78-122	1	0	22.22	20.00	111		23.46	20.00	117		20	5.40	
4-Isopropyltoluene	77-127	1	0	23.91	20.00	120		24.6	20.00	123		20	2.90	
4-Methyl-2-pentanone	67-130	1	0	39.61	40.00	99		41.64	40.00	104		20	5.00	
Acetone	39-160	1	0	21.18	40.00	53		22.21	40.00	56		20	4.80	
Benzene	79-120	1	0	18.46	20.00	92		19.69	20.00	99		20	6.50	
Bromobenzene	80-120	1	0	20.79	20.00	104		21.89	20.00	109		20	5.10	
Bromochloromethane	78-123	1	0	15.79	20.00	79		17.21	20.00	86		20	8.60	
Bromodichloromethane	79-125	1	0	18.98	20.00	95		20.5	20.00	102		20	7.70	
Bromoform	66-130	1	0	19.33	20.00	97		20.17	20.00	101		20	4.20	
Bromomethane	53-141	1	0	10.73	20.00	54		13.35	20.00	67		20	21.8	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder **HS23030818**

	HS23030822-01	HS23030822-01MS	HS23030822-01MSD	
Sample Matrix Aqueous	**Run Date** 03/19/23	03/19/23	03/19/23	
Units µg/L	**Run Time** 16:09	17:54	18:15	
	Data File X031912.D	X031917.D	X031918.D	

Analyte	%R Limits	DF	Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Carbon disulfide	64-133	1	0	35.29	40.00	88		34.91	40.00	87		20	1.10	
Carbon tetrachloride	72-136	1	0	22.85	20.00	114		23.31	20.00	117		20	2.00	
Chlorobenzene	82-118	1	0	20.34	20.00	102		21.6	20.00	108		20	6.00	
Chloroethane	60-138	1	0	15.89	20.00	79		15.96	20.00	80		20	0.500	
Chloroform	79-124	1	0	17.14	20.00	86		18.52	20.00	93		20	7.70	
Chloromethane	50-139	1	0	19.23	20.00	96		19.11	20.00	96		20	0.600	
cis-1,2-Dichloroethene	78-123	1	0	18.82	20.00	94		18.88	20.00	94		20	0.300	
cis-1,3-Dichloropropene	75-124	1	0	17.82	20.00	89		19.28	20.00	96		20	7.90	
Dibromochloromethane	74-126	1	0	19.32	20.00	97		20.85	20.00	104		20	7.60	
Dibromomethane	79-123	1	0	18.43	20.00	92		19.97	20.00	100		20	8.00	
Dichlorodifluoromethane	32-152	1	0	15.40	20.00	77		15.2	20.00	76		20	1.30	
Ethylbenzene	79-121	1	0	20.78	20.00	104		21.66	20.00	108		20	4.20	
Hexachlorobutadiene	66-134	1	0	24.41	20.00	122		25.29	20.00	126		20	3.50	
Isopropylbenzene	72-131	1	0	22.31	20.00	112		23.12	20.00	116		20	3.60	
m,p-Xylene	80-121	1	0	41.90	40.00	105		43.99	40.00	110		20	4.80	
Methylene chloride	74-124	1	0	14.38	20.00	72	*	17.19	20.00	86		20	17.8	
n-Butylbenzene	75-128	1	0	25.76	20.00	129	*	26.63	20.00	133	*	20	3.30	
n-Propylbenzene	76-126	1	0	23.60	20.00	118		24.31	20.00	122		20	3.00	
Naphthalene	61-128	1	0	20.69	20.00	103		21.5	20.00	107		20	3.80	
o-Xylene	78-122	1	0	20.31	20.00	102		21.44	20.00	107		20	5.40	
sec-Butylbenzene	77-126	1	0	24.39	20.00	122		24.79	20.00	124		20	1.60	
Styrene	78-123	1	0	20.62	20.00	103		21.82	20.00	109		20	5.70	
tert-Butylbenzene	78-124	1	0	23.79	20.00	119		24.43	20.00	122		20	2.60	
Tetrachloroethene	74-129	1	0	24.90	20.00	125		24.78	20.00	124		20	0.500	
Toluene	80-121	1	0	21.19	20.00	106		22.15	20.00	111		20	4.40	
trans-1,2-Dichloroethene	75-124	1	0	17.55	20.00	88		17.92	20.00	90		20	2.10	
trans-1,3-Dichloropropene	73-127	1	0	18.46	20.00	92		19.77	20.00	99		20	6.90	
Trichloroethene	79-123	1	0	23.45	20.00	117		22.09	20.00	110		20	6.00	
Trichlorofluoromethane	65-141	1	0	19.12	20.00	96		21.42	20.00	107		20	11.3	
Vinyl chloride	58-137	1	0	17.71	20.00	89		18.41	20.00	92		20	3.80	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA 8260

Workorder

HS23030818

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

03/22/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder
HS23030818

Volatiles by EPA 8260

VOA6_430439_R430439		QC ID	LCS-R430439
QC Matrix Aqueous	Units	Run Date	03/19/23
	ug/L	Run Time	13:42

Analyte	%R Limits	Spike Added	LCS Result	%R	Q
1,1,1,2-Tetrachloroethane	78-124	20	20.26	101	
1,1,1-Trichloroethane	74-131	20	21.12	106	
1,1,2,2-Tetrachloroethane	71-121	20	20.58	103	
1,1,2-Trichloroethane	80-119	20	19.83	99	
1,1-Dichloroethane	77-125	20	20.33	102	
1,1-Dichloroethene	71-131	20	18.43	92	
1,1-Dichloropropene	78-125	20	19.52	98	
1,2,3-Trichlorobenzene	69-129	20	17.71	89	
1,2,3-Trichloropropane	73-122	20	20.37	102	
1,2,4-Trichlorobenzene	69-130	20	17.83	89	
1,2,4-Trimethylbenzene	76-124	20	18.24	91	
1,2-Dibromo-3-chloropropane	62-128	20	20.09	100	
1,2-Dibromoethane	77-121	20	21.18	106	
1,2-Dichlorobenzene	80-119	20	19.7	98	
1,2-Dichloroethane	73-128	20	21.46	107	
1,2-Dichloroethane-d4	81-118	50	56.6	113	
1,2-Dichloropropane	78-122	20	19.85	99	
1,3,5-Trimethylbenzene	75-124	20	17.74	89	
1,3-Dichlorobenzene	80-119	20	18.75	94	
1,3-Dichloropropane	80-119	20	20.82	104	
1,4-Dichlorobenzene	79-118	20	18.75	94	
2,2-Dichloropropane	60-139	20	22.61	113	
2-Butanone	56-143	40	38.24	96	
2-Chlorotoluene	79-122	20	19.48	97	
2-Hexanone	57-139	40	43.94	110	
4-Bromofluorobenzene	85-114	50	52.65	105	
4-Chlorotoluene	78-122	20	19.82	99	
4-Isopropyltoluene	77-127	20	17.21	86	
4-Methyl-2-pentanone	67-130	40	43.77	109	
Acetone	39-160	40	36.02	90	
Benzene	79-120	20	19.84	99	
Bromobenzene	80-120	20	20.12	101	
Bromochloromethane	78-123	20	19.62	98	
Bromodichloromethane	79-125	20	21.31	107	
Bromoform	66-130	20	20.9	105	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder
HS23030818

Volatiles by EPA 8260

VOA6_430439_R430439		QC ID	LCS-R430439
QC Matrix Aqueous	**Units**	**Run Date**	03/19/23
	ug/L	**Run Time**	13:42

Analyte	%R Limits	Spike Added	LCS Result	%R	Q
Bromomethane	53-141	20	24.25	121	
Carbon disulfide	64-133	40	34.7	87	
Carbon tetrachloride	72-136	20	19.72	99	
Chlorobenzene	82-118	20	20.18	101	
Chloroethane	60-138	20	18.73	94	
Chloroform	79-124	20	20.67	103	
Chloromethane	50-139	20	21.29	106	
cis-1,2-Dichloroethene	78-123	20	20.5	102	
cis-1,3-Dichloropropene	75-124	20	20.64	103	
Dibromochloromethane	74-126	20	20.46	102	
Dibromofluoromethane	80-119	50	53.83	108	
Dibromomethane	79-123	20	20.98	105	
Dichlorodifluoromethane	32-152	20	20.16	101	
Ethylbenzene	79-121	20	19.03	95	
Hexachlorobutadiene	66-134	20	17.55	88	
Isopropylbenzene	72-131	20	17.92	90	
m,p-Xylene	80-121	40	37.73	94	
Methylene chloride	74-124	20	20.33	102	
Naphthalene	61-128	20	19.42	97	
n-Butylbenzene	75-128	20	18.09	90	
n-Propylbenzene	76-126	20	18.04	90	
o-Xylene	78-122	20	19.25	96	
sec-Butylbenzene	77-126	20	16.45	82	
Styrene	78-123	20	20.46	102	
tert-Butylbenzene	78-124	20	17.03	85	
Tetrachloroethene	74-129	20	19.09	96	
Toluene	80-121	20	20.61	103	
Toluene-d8	89-112	50	49.42	99	
trans-1,2-Dichloroethene	75-124	20	20.24	101	
trans-1,3-Dichloropropene	73-127	20	21.23	106	
Trichloroethene	79-123	20	19.7	98	
Trichlorofluoromethane	65-141	20	20.49	102	
Vinyl chloride	58-137	20	20.96	105	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

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Form 4

Method Blank Summary

Volatiles by EPA 8260

Workorder

HS23030818

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

03/22/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder
HS23030818

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230319	X031907.D	03/19/23 14:24	VOA6_430439_R430439
VLCSW-230319	LCS	VLCSW-230319	X031905.D	03/19/23 13:42	VOA6_430439_R430439
Trip Blank	SAMP	HS23030818-02	X031908.D	03/19/23 14:45	VOA6_430439_R430439
LH18/24-SP650_031423	SAMP	HS23030818-01	X031911.D	03/19/23 15:48	VOA6_430439_R430439
BatchQC	MS	HS23030822-01MS	X031917.D	03/19/23 17:54	VOA6_430439_R430439
BatchQC	MSD	HS23030822-01MSD	X031918.D	03/19/23 18:15	VOA6_430439_R430439

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Form 5

Instrument Performance Check

Volatiles by EPA 8260

Workorder

HS23030818

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

03/22/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder
HS23030818

RunID
VOA6_430425

Tune File X031701.D 03/17/23 11:08

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	15.2 (15.2)
75	30.0 - 60.0% of mass 95	44.4 (44.4)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.9 (6.87)
173	Less than 2.0% of mass 174	0.7 (0.806) 1
174	50.0 - 120.0% of mass 95	82.7 (82.7)
175	4.0 - 9.0% of mass 174	6 (7.26) 1
176	93.0 - 101.0% of mass 174	81.9 (99.1) 1
177	5.0 - 9.0% of mass 176	5.1 (6.23) 2

Value is % of mass 1) 174 2) 176 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	ICAL1	03/17/23 11:29	X031702	VSTD000.25
2	ICAL2	03/17/23 12:11	X031703	VSTD000.5
3	ICAL3	03/17/23 12:32	X031704	VSTD001
4	ICAL4	03/17/23 12:53	X031705	VSTD002
5	ICAL5	03/17/23 13:14	X031706	VSTD005
6	ICAL6	03/17/23 13:35	X031707	VSTD020
7	ICAL7	03/17/23 13:55	X031708	VSTD050
8	ICAL8	03/17/23 14:16	X031709	VSTD100
9	ICAL9	03/17/23 14:37	X031710	VSTD150
10	ICAL	03/17/23 14:58	X031711	VSTD200
11	ICV	03/17/23 15:40	X031713	CCV

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder
HS23030818

RunID
VOA6_430439

Tune File X031901.D 03/19/23 12:18

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	15.8 (15.8)
75	30.0 - 60.0% of mass 95	45.9 (45.9)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.7 (6.74)
173	Less than 2.0% of mass 174	0.5 (0.664) 1
174	50.0 - 120.0% of mass 95	82.3 (82.3)
175	4.0 - 9.0% of mass 174	5.9 (7.11) 1
176	93.0 - 101.0% of mass 174	79.9 (97.1) 1
177	5.0 - 9.0% of mass 176	5.8 (7.2) 2

Value is % of mass 1) 174 2) 176 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	03/19/23 12:39	X031902	CCV
2	CCB	03/19/23 13:21	X031904	CCB
3	LCS	03/19/23 13:42	X031905	VLCSW-230319
4	MBLK	03/19/23 14:24	X031907	VBLKW-230319
5	SAMP	03/19/23 14:45	X031908	Trip Blank
6	SAMP	03/19/23 15:48	X031911	LH18/24-SP650_031423
7	MS	03/19/23 17:54	X031917	ZZZZZZMS
8	MSD	03/19/23 18:15	X031918	ZZZZZZMSD
9	CCV_EN	03/19/23 18:36	X031919	CCV-END

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Form 6

Initial Calibration Data

Volatiles by EPA 8260

Workorder

HS23030818

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

03/22/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129

ICAL End Date 17-MAR-2023 1458

Calibration Files

Level 1 ..voa6.i\X230317.b\X031702.D
Level 2 ..voa6.i\X230317.b\X031703.D
Level 3 ..voa6.i\X230317.b\X031704.D
Level 4 ..voa6.i\X230317.b\X031705.D
Level 5 ..voa6.i\X230317.b\X031706.D
Level 6 ..voa6.i\X230317.b\X031707.D
Level 7 ..voa6.i\X230317.b\X031708.D
Level 8 ..voa6.i\X230317.b\X031709.D
Level 9 ..voa6.i\X230317.b\X031710.D
Level 10 ..voa6.i\X230317.b\X031711.D

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Dichlorodifluoromethane	NE 117977	1644 277552	2581 404362	5239 NE	9602	49131	QUAD	0.01170	3.00325	-0.32334	0.99876	
Chloromethane	NE 0.44767	0.52882 0.47768	0.44328 0.50506	0.42183 0.48835	0.40199	0.42464	AVRG		0.45993		9.22052	
Propionitrile	NE 0.07225	0.07162 0.06705	0.08328 0.06253	0.06867 0.06930	0.07298	0.06639	AVRG		0.07045		8.25720	
Vinyl Chloride	NE 0.39920	0.42741 0.43351	0.35353 0.42226	0.40661 0.39814	0.32884	0.37489	AVRG		0.39382		8.94531	
Bromomethane	NE 0.23372	0.22648 0.23091	0.22809 0.23372	0.21383 NE	0.22055	0.22415	AVRG		0.22643		3.02149	
Chloroethane	NE 0.27457	0.33361 0.26536	0.31290 0.25345	0.29534 0.23826	0.26635	0.27379	AVRG		0.27929		10.66890	
Trichlorofluoromethane	NE 0.44131	0.52203 0.51302	0.47567 0.50556	0.46921 0.47503	0.34616	0.45614	AVRG		0.46712		11.26602	
Acrolein	NE 19125	179 43228	474 65230	794 87434	1386	7235	LINR	0.06233	0.02933		0.99811	
Acetone	NE 109249	2266 202318	2978 258914	5122 386486	12577	45236	LINR	-0.10404	0.12437		0.99647	
1,1-Dichloroethene	NE 0.28641	0.33823 0.29732	0.33665 0.29251	0.31845 0.27983	0.25876	0.29417	AVRG		0.30026		8.75947	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 / Level 7 50.0	Level 2 0.500 / Level 8 100.0	Level 3 1.00 / Level 9 150.0	Level 4 2.00 / Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Isobutyl Alcohol	NE 0.07036	0.04807 0.06883	0.07135 0.06417	0.07350 0.07641	0.07205	0.06923	AVRG		0.06822		12.13006	
Acetonitrile	NE 0.04839	0.04489 0.04708	0.05402 0.04478	0.04508 0.04586	0.04417	0.04455	AVRG		0.04653		6.69442	
Allyl Chloride	NE 1.15153	1.23465 1.12223	1.28620 1.06223	1.20030 1.09513	1.14657	1.06036	AVRG		1.15102		6.71360	
Iodomethane	NE 207928	1037 585867	1627 998873	2950 1450729	7971	49371	QUAD	0.18536	2.69908	-0.17861	0.99452	
Acrylonitrile	NE 0.17540	0.16259 0.16940	0.17203 0.16448	0.17163 0.17396	0.14550	0.16669	AVRG		0.16685		5.44145	
Methylene Chloride	NE 192572	2729 376597	4854 522386	8273 711938	22035	76634	LINR	-0.03460	0.47251		0.99853	
Methyl tert-butyl ether	NE 1.51899	1.87250 1.48183	1.75350 1.39555	1.74224 1.40673	1.58536	1.47207	AVRG		1.58098		10.74933	
Carbon Disulfide	NE 1.04077	1.24824 1.16653	1.07163 1.18572	1.14727 1.13989	0.91974	1.00894	AVRG		1.10319		9.20968	
trans-1,2-Dichloroethene	NE 0.41318	0.48015 0.41980	0.45234 0.40841	0.44967 0.39167	0.39337	0.40283	AVRG		0.42349		7.19260	
Vinyl Acetate	NE 1.37711	1.19101 1.32703	1.17318 1.24455	1.24812 1.27332	1.35121	1.29926	AVRG		1.27609		5.44297	
1,1-Dichloroethane	NE 0.77338	0.80832 0.76084	0.79859 0.74101	0.83084 0.73400	0.71414	0.74169	AVRG		0.76698		5.06212	
Chloroprene	NE 0.11812	0.15797 0.13923	0.15233 0.13748	0.15035 0.12833	0.12853	0.12172	AVRG		0.13712		10.29751	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
2-Butanone	NE	0.14492	0.17464	0.16738	0.18277	0.17916						
	0.20265	0.18775	0.17682	0.19514			AVRG		0.17902		9.32872	
Methacrylonitrile	NE	0.47961	0.50874	0.46304	0.45981	0.44912						
	0.47291	0.44657	0.40953	0.45807			AVRG		0.46082		5.83293	
2,2-Dichloropropane	NE	2270	4259	9195	21125	89332						
	222642	466243	659792	905769			LINR	-0.00507	0.60113		0.99932	
cis-1,2-Dichloroethene	NE	0.56607	0.53866	0.54421	0.48693	0.48900						
	0.51187	0.50480	0.48720	0.48364			AVRG		0.51249		5.89360	
Chloroform	NE	1.06526	0.89370	0.90907	0.82447	0.79702						
	0.82178	0.79907	0.77111	0.77989			AVRG		0.85126		10.96560	
Bromochloromethane	NE	0.34747	0.31208	0.31221	0.28652	0.27224						
	0.28100	0.27176	0.26212	0.26476			AVRG		0.29002		9.78295	
1,1,1-Trichloroethane	NE	0.70881	0.63528	0.69613	0.54594	0.60592						
	0.59600	0.65244	0.64488	0.64378			AVRG		0.63658		7.84280	
1,1-Dichloropropene	NE	0.37001	0.37886	0.37422	0.32360	0.32672						
	0.32541	0.37427	0.37465	0.36304			AVRG		0.35675		6.73568	
1,2-Dichloroethane	NE	0.49578	0.43027	0.41447	0.39204	0.39261						
	0.41424	0.39760	0.39827	0.40563			AVRG		0.41566		7.82096	
Carbon Tetrachloride	NE	0.38512	0.37621	0.36020	0.31858	0.29724						
	0.29421	0.34865	0.35346	0.33997			AVRG		0.34151		9.47408	
Benzene	NE	1.36837	1.31455	1.30883	1.11213	1.15853						
	1.18290	1.21513	1.21268	1.19201			AVRG		1.22946		6.78629	
Trichloroethene	NE	0.37499	0.34162	0.34158	0.29240	0.30874						
	0.31254	0.33993	0.34226	0.32635			AVRG		0.33116		7.33053	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Bromodichloromethane	NE 0.42403	0.50192 0.42979	0.44325 0.42750	0.43356 0.43696	0.41657	0.41421	AVRG		0.43642		6.01375	
Methyl Methacrylate	NE 0.45468	0.47227 0.43739	0.44671 0.40542	0.42094 0.49066	0.44389	0.44056	AVRG		0.44584		5.68680	
2-Chloroethylvinyl ether	NE 0.14073	0.12154 0.13903	0.13088 0.13558	0.12336 0.14218	0.13070	0.13017	AVRG		0.13269		5.51544	
1,2-Dichloropropane	NE 0.32307	0.37615 0.32517	0.35844 0.31847	0.33371 0.32560	0.30960	0.31171	AVRG		0.33133		6.67382	
2-Nitropropane	NE 0.15278	0.15579 0.14676	0.17580 0.14210	0.17304 0.17749	0.14859	0.14043	AVRG		0.15698		9.34615	
Dibromomethane	NE 0.21088	0.21416 0.20453	0.22034 0.20083	0.22768 0.20439	0.21298	0.20627	AVRG		0.21134		4.06226	
4-Methyl-2-Pentanone	NE 0.32803	0.32067 0.31028	0.28645 0.29815	0.32186 0.33845	0.32581	0.31752	AVRG		0.31636		5.03158	
cis-1,3-Dichloropropene	NE 0.54728	0.61789 0.55999	0.51064 0.56057	0.54139 0.57565	0.52144	0.52623	AVRG		0.55123		5.90538	
Ethyl Methacrylate	NE 0.34518	0.37532 0.34442	0.40046 0.34169	0.36790 0.38217	0.39437	0.36115	AVRG		0.36808		5.93608	
Toluene	NE 1.31784	1.36360 1.33486	1.35460 1.30924	1.34294 1.30143	1.22572	1.25621	AVRG		1.31183		3.47950	
trans-1,3-Dichloropropene	NE 0.46881	0.45524 0.46750	0.43480 0.47187	0.45335 0.48925	0.43511	0.44268	AVRG		0.45762		4.01514	
2-Hexanone	NE 0.22814	0.21920 0.21427	0.19213 0.20591	0.21529 0.23764	0.22029	0.22128	AVRG		0.21713		5.95075	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
1,1,2-Trichloroethane	NE 0.28140	0.32249 0.27242	0.29066 0.26403	0.30279 0.27503	0.28685	0.27117	AVRG		0.28521		6.39221	
1,3-Dichloropropane	NE 0.57930	0.58721 0.55987	0.58401 0.54766	0.55929 0.56200	0.56249	0.55961	AVRG		0.56683		2.36109	
Dibromochloromethane	NE 0.40359	0.45755 0.40217	0.39816 0.40171	0.39690 0.40940	0.38257	0.37405	AVRG		0.40290		5.77788	
Tetrachloroethene	NE 0.24481	0.30927 0.27864	0.26475 0.27518	0.27730 0.26060	0.21975	0.23646	AVRG		0.26297		10.10817	
1,2-Dibromoethane	NE 0.36394	0.36078 0.35450	0.33495 0.34546	0.34900 0.35852	0.35755	0.34806	AVRG		0.35253		2.56635	
1-Chlorohexane	NE 119361	1701 288303	3010 412465	5763 638798	10247	49375	LINR	0.04477	0.24989		0.99823	
Chlorobenzene	NE 0.92404	1.02126 0.93372	0.97096 0.93315	0.93772 0.92768	0.88987	0.89884	AVRG		0.93747		4.16730	
1,1,1,2-Tetrachloroethane	NE 0.35307	0.43057 0.36128	0.35450 0.36587	0.34011 0.37191	0.33324	0.34080	AVRG		0.36126		8.01239	
Ethylbenzene	NE 0.43812	0.54631 0.46539	0.48701 0.46890	0.46674 0.45227	0.40163	0.42592	AVRG		0.46137		8.87817	
m,p-Xylenes	NE 0.56015	0.65300 0.58544	0.60028 0.58238	0.61865 0.57932	0.50462	0.54179	AVRG		0.58063		7.40819	
o-Xylene	NE 0.56178	0.68241 0.57988	0.61521 0.57471	0.58560 0.56951	0.53785	0.54396	AVRG		0.58343		7.47056	
Styrene	NE 0.98499	0.97967 0.99427	0.91923 0.99127	0.96004 0.97711	0.90632	0.96351	AVRG		0.96405		3.25239	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Bromoform	NE 0.29082	0.30996 0.28454	0.25650 0.28902	0.24947 0.29596	0.26157	0.26945	AVRG		0.27859		7.27750	
Isopropylbenzene	NE 1.24429	1.42556 1.38661	1.45286 1.37809	1.47212 1.35267	1.12383	1.19028	AVRG		1.33626		9.14543	
1,1,2,2-Tetrachloroethane	NE 0.85932	0.99715 0.82772	0.84918 0.81837	0.88045 0.88925	0.89221	0.82734	AVRG		0.87122		6.27988	
1,2,3-Trichloropropane	NE 0.67077	0.70191 0.61192	0.64722 0.69479	0.66016 0.64266	0.64496	0.61845	AVRG		0.65476		4.69619	
trans-1,4-Dichloro-2-butene	NE 62606	541 125897	1007 181079	1998 NE	5471	23270	LINR	0.01057	0.11249		0.99985	
n-Propylbenzene	NE 2.59864	3.07273 2.98014	2.81938 2.97016	2.96967 2.86997	2.25283	2.47692	AVRG		2.77894		9.93810	
Bromobenzene	NE 0.78640	0.82667 0.82135	0.81792 0.82414	0.81212 0.83253	0.76727	0.74640	AVRG		0.80387		3.75046	
1,3,5-Trimethylbenzene	NE 2.03282	2.33558 2.25975	2.24733 2.24397	2.27828 2.22495	1.83105	1.94518	AVRG		2.15544		8.10253	
2-Chlorotoluene	NE 1.76962	1.89176 1.85674	2.04730 1.88892	1.99410 1.86296	1.74847	1.75572	AVRG		1.86840		5.54193	
4-Chlorotoluene	NE 2.03979	2.20002 2.17419	2.01524 2.17083	2.18800 2.20748	1.93389	2.02354	AVRG		2.10589		4.85891	
tert-Butylbenzene	NE 1.55788	1.89653 1.84581	1.87243 1.82858	1.87631 1.69495	1.38270	1.49567	AVRG		1.71676		11.23010	
1,2,4-Trimethylbenzene	NE 2.10068	2.54669 2.30265	2.23258 2.29594	2.27654 2.17064	1.93041	2.03887	AVRG		2.21056		8.07996	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
sec-Butylbenzene	NE 2.06318	2.65431 2.52097	2.47990 2.53562	2.54193 2.49046	1.73328	1.92216	AVRG		2.32687		14.17711	
p-Isopropyltoluene	NE 1.93839	2.19685 2.32649	2.05820 2.31463	2.15716 2.23292	1.65060	1.81141	AVRG		2.07629		11.24017	
1,3-Dichlorobenzene	NE 1.32396	1.54668 1.42092	1.38453 1.42199	1.43945 1.40436	1.26526	1.30578	AVRG		1.39033		6.02976	
1,4-Dichlorobenzene	NE 1.38005	1.70732 1.46627	1.58825 1.45591	1.57580 1.46483	1.42184	1.38831	AVRG		1.49428		7.23520	
Benzyl Chloride	NE 426174	4324 885238	6470 1294607	13841 2013195	37307	154893	LINR	0.03086	0.81749		0.99946	
n-Butylbenzene	NE 1.60041	1.63271 1.94230	1.64467 1.92058	1.68075 1.87668	1.29432	1.46836	AVRG		1.67342		12.82247	
1,2-Dichlorobenzene	NE 1.34885	1.57367 1.41654	1.34942 1.40869	1.41060 1.38069	1.27630	1.35073	AVRG		1.39061		5.85882	
1,2-Dibromo-3-Chloropropane	NE 47841	405 98490	779 139207	1655 226912	4699	18853	LINR	0.02958	0.16534		0.99809	
1,2,4-Trichlorobenzene	NE 1.00455	1.08223 1.13367	0.87450 1.11828	1.02139 1.07113	0.89791	0.94636	AVRG		1.01667		9.24691	
Hexachlorobutadiene	NE 105547	1367 283471	2560 412820	5380 NE	7780	38257	QUAD	0.03607	2.56269	-0.33486	0.99529	
Naphthalene	NE 2.52061	2.50034 2.65506	2.20357 2.54418	2.20551 2.60544	2.31690	2.40934	AVRG		2.44011		6.82059	
1,2,3-Trichlorobenzene	NE 0.95539	1.04033 1.06496	0.90929 1.02056	0.95995 1.00211	0.88752	0.91562	AVRG		0.97286		6.42308	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Ethyl Acetate	NE 0.52072	0.54051 0.50146	0.49296 0.46849	0.51096 0.49537	0.56836	0.54892	AVRG		0.51642		6.08436	
Methyl Acrylate	NE 0.51738	0.52393 0.55846	0.44836 0.52213	0.51795 0.56577	0.50638	0.49999	AVRG		0.51782		6.57767	
n-Butanol	NE 92688	783 199313	1715 285255	3165 NE	6157	30431	LINR	0.63414	0.01335		0.99896	
Ethyl Acrylate	NE 1.11405	0.99076 1.19194	1.12042 1.16984	1.06243 1.31670	0.86029	0.99327	AVRG		1.09108		12.22730	
Cyclohexanone	NE 0.02952	0.03375 0.02809	0.03195 0.02606	0.02943 0.02856	0.03083	0.02908	AVRG		0.02970		7.56510	
1,4-Dioxane	0.00696 0.00658	0.00680 0.00621	0.00654 0.00620	0.00674 0.00704	0.00709	0.00619	AVRG		0.00663		5.26390	
n-Hexane	NE 126023	1555 370085	2771 NE	5204 NE	5476	45980	QUAD	0.00698	3.42252	-1.42434	0.99926	
Freon TF	NE 91222	1102 233445	2078 333134	4071 NE	6618	37539	QUAD	0.02420	3.65908	-0.52618	0.99678	
Methyl Acetate	NE 0.32130	0.28739 0.30124	0.22397 0.28373	0.27999 0.30332	0.29368	0.29189	AVRG		0.28739		9.32474	
Methylcyclohexane	NE 0.70044	0.69100 0.75525	0.64865 0.75148	0.69990 0.78696	0.56068	0.61894	AVRG		0.69037		10.38603	
Isopropyl alcohol	NE 0.02882	0.02690 0.02870	0.02596 0.02726	0.02833 0.02956	0.02963	0.02666	AVRG		0.02798		4.73915	
Amyl alcohol	NE 0.00921	0.00938 0.00936	0.00843 0.00926	0.00802 0.01105	0.00807	0.00832	AVRG		0.00901		10.55075	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Allyl alcohol	NE 126023	1223 370085	2361 NE	4552 NE	7188	45980	QUAD	0.12531	68.55174	-28.57566	0.99968	
4-Methyl-2-pentanol	NE 0.07028	0.07218 0.06948	0.08069 0.06869	0.06890 0.07941	0.07462	0.07259	AVRG		0.07298		6.10526	
Tert-butyl alcohol	NE 0.05268	0.05876 0.05125	0.04549 0.04860	0.05641 0.05380	0.05429	0.04996	AVRG		0.05236		7.74187	
Diethyl ether	NE 0.33578	0.36270 0.31513	0.40266 0.29580	0.34183 0.30400	0.32767	0.32963	AVRG		0.33502		9.65312	
1,3-Butadiene	NE 0.33263	0.37004 0.36282	0.35545 0.35134	0.35718 0.33578	0.26683	0.31968	AVRG		0.33908		9.27765	
Cyclohexane	NE 172149	2139 457578	3748 641070	7493 NE	11367	64931	QUAD	0.03517	1.87606	-0.13528	0.99515	
Tetrahydrofuran	NE 0.08545	0.08347 0.07793	0.08090 0.07160	0.08443 0.08065	0.08832	0.08208	AVRG		0.08165		5.91459	
alpha-Methylstyrene	NE 1.05799	1.22446 1.16084	1.01331 1.15374	1.07347 1.15449	0.95125	1.02127	AVRG		1.09009		8.10663	
Diisopropyl ether	NE 1.52297	1.58592 1.50511	1.86150 1.39574	1.66827 1.40729	1.55180	1.47196	AVRG		1.55229		9.25922	
Dichlorofluoromethane	NE 0.61195	0.63540 0.60386	0.69896 0.58655	0.68022 0.57031	0.59675	0.59076	AVRG		0.61942		7.08410	
Propylene oxide	NE 0.03299	0.02841 0.03015	0.02964 NE	0.02903 NE	0.03603	0.03209	AVRG		0.03119		8.61491	
3-Methyl-1-butanol	NE 0.00925	0.00741 0.00939	0.00803 0.00907	0.00807 0.01050	0.00830	0.00852	AVRG		0.00873		10.62883	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Butyl acrylate	NE 0.74976	0.77674 0.72330	0.83254 0.71771	0.69297 0.77332	0.67129	0.70453	AVRG		0.73802		6.78319	
1,2,3-Trimethylbenzene	NE 2.22962	2.67209 2.35989	2.78492 2.35397	2.53464 2.33195	2.21000	2.10318	AVRG		2.39781		9.34724	
Ethanol	NE 0.00451	0.00541 0.00418	0.00450 0.00382	0.00454 0.00378	0.00496	0.00466	AVRG		0.00448		11.56839	
1-Propanol	NE 0.00906	NE 0.00919	NE 0.00830	0.00915 0.00806	0.00911	0.00841	AVRG		0.00875		5.46375	*
tert-Butyl formate	NE 0.42407	0.36379 0.40989	0.39051 0.39353	0.38803 0.49413	0.41115	0.39152	AVRG		0.40740		9.02997	
3,3-Dimethyl-1-butanol	NE 0.03695	0.04227 0.03569	0.04264 0.03518	0.03988 0.04030	0.03707	0.03678	AVRG		0.03853		7.27086	
tert-Amyl methyl ether	NE 1.64579	1.91681 1.64432	2.05185 1.60657	1.82890 1.86189	1.87437	1.67183	AVRG		1.78915		8.56987	
tert-Butyl ethyl ether	NE 1.58262	1.68326 1.58321	1.88099 1.49595	1.68500 1.51427	1.66573	1.54264	AVRG		1.62596		7.32298	
tert-Amyl alcohol	NE 0.04241	0.04425 0.04099	0.04293 0.03935	0.04378 0.04941	0.04282	0.03915	AVRG		0.04279		7.17678	
Epichlorohydrin	NE 0.02872	0.02662 0.02741	0.03540 0.02658	0.02981 0.02937	0.02683	0.02597	AVRG		0.02852		10.20060	
Isoprene	NE 0.09308	0.09815 0.09978	0.11295 0.09626	0.08947 0.09538	0.08836	0.08980	AVRG		0.09591		7.85895	*
n-Amyl acetate	NE 0.61472	0.59052 0.59998	0.61934 0.60781	0.59856 0.69186	0.64648	0.61861	AVRG		0.62087		5.01819	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Isopropyl acetate	NE 0.89013	0.94786 0.87195	1.00803 0.82482	0.89720 0.91369	0.92246	0.87199	AVRG		0.90535		5.75588	
n-Butyl acetate	NE 0.55489	0.52734 0.54065	0.45742 0.53179	0.48360 0.60856	0.52615	0.53537	AVRG		0.52953		8.00581	
Acetaldehyde	NE 48915	NE 91272	NE 122135	3379 184725	4487	14072	LINR	-0.01634	0.02971		0.99671	*
Methyl Amyl Ketone	NE 0.78795	0.77360 0.76154	0.89045 0.74140	0.77776 0.82302	0.77026	0.78465	AVRG		0.79007		5.51596	
Dimethyl Disulfide	NE 0.72347	0.64395 0.74389	0.60230 0.73055	0.53037 0.73800	0.56160	0.61855	AVRG		0.65474		12.50973	
Isobutylene	NE 0.03870	0.04241 0.04143	0.04405 0.04084	0.04161 0.04385	0.03879	0.04238	AVRG		0.04156		4.59996	*
2-Ethylhexyl Acrylate	NE 0.78906	0.72001 0.84406	0.70124 0.83763	0.66428 0.84354	0.58247	0.66098	AVRG		0.73814		12.86575	*
1,2-Dichloroethylene (total)	NE 0.46252	0.52311 0.46230	0.49550 0.44780	0.49694 0.43766	0.44015	0.44591	AVRG		0.46799		6.44840	
Xylenes (total)	NE 0.52260	0.63274 0.55430	0.57657 0.55866	0.58656 0.55103	0.49324	0.51792	AVRG		0.55485		7.47785	
Dibromofluoromethane	NE 170305	1948 363757	4137 489100	8112 702510	18353	75605	LINR	-0.01548	0.45880		0.99908	
1,2-Dichloroethane-d4	NE 195743	2080 399036	4794 545784	8436 874210	22180	83385	LINR	0.02097	0.55062		0.99520	
Toluene-d8	NE 1.10886	1.32113 1.24227	1.45357 1.16084	1.30957 1.14185	1.21562	1.20182	AVRG		1.23950		8.66053	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
4-Bromofluorobenzene	NE 251415	3243 535221	6673 758344	12929 1161000	32222	111601	LINR	-0.00357	0.47168		0.99980	

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA 8260

Workorder

HS23030818

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

03/22/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430425

Instrument ID voa6.i ICAL Date 17-MAR-2023
Lab File ID X031713.D ICAL Time 1355
?VAL? ?VAL? Conc Units ug/L
Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachlor	50.00	46.92	93.85	80-120	
1,1,1-Trichloroeth	50.00	45.72	91.44	80-120	
1,1,2,2-Tetrachlor	50.00	49.58	99.16	80-120	
Freon TF	50.00	40.85	81.71	80-120	
Methyl acetate	50.00	48.86	97.72	80-120	
Cyclohexane	50.00	40.96	81.93	80-120	
Methylcyclohexane	50.00	49.74	99.50	80-120	
Carbon Disulfide	100.00	81.89	81.90	80-120	
2-Hexanone	100.00	105.20	105.21	80-120	
1,1,2-Trichloroeth	50.00	47.32	94.66	80-120	
1,1-Dichloroethane	50.00	44.17	88.36	80-120	
1,1-Dichloroethene	50.00	41.61	83.22	80-120	
1,1-Dichloropropen	50.00	44.65	89.32	80-120	
1,2,3-Trichloroben	50.00	51.16	102.32	80-120	
1,2,3-Trichloropro	50.00	51.61	103.23	80-120	
1,2,4-Trichloroben	50.00	51.25	102.51	80-120	
1,2,4-Trimethylben	50.00	45.63	91.26	80-120	
1,2-Dibromo-3-Chlo	50.00	49.26	98.52	80-120	
1,2-Dibromoethane	50.00	50.57	101.16	80-120	
Acrolein	100.00	86.85	86.86	80-120	
Acrylonitrile	100.00	97.67	97.67	80-120	
1,2-Dichlorobenzen	50.00	48.96	97.93	80-120	
1,2-Dichloroethane	50.00	53.28	106.57	80-120	
1,2-Dichloropropan	50.00	48.34	96.70	80-120	
1,3,5-Trimethylben	50.00	45.34	90.70	80-120	
1,3-Dichlorobenzen	50.00	46.63	93.26	80-120	
1,3-Dichloropropan	50.00	49.10	98.22	80-120	
1,4-Dichlorobenzen	50.00	46.12	92.26	80-120	
1-Chlorohexane	50.00	44.21	88.42	80-120	
2,2-Dichloropropan	50.00	45.47	90.95	80-120	
2-Butanone	100.00	107.54	107.54	80-120	
2-Chloroethylvinyl	100.00	106.60	106.60	80-120	
2-Chlorotoluene	50.00	47.06	94.13	80-120	
4-Chlorotoluene	50.00	49.27	98.56	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430425

Instrument ID voa6.i ICAL Date 17-MAR-2023
Lab File ID X031713.D ICAL Time 1355
?VAL? ?VAL? Conc Units ug/L
Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.00	44.79	89.58	80-120	
4-Methyl-2-Pentano	100.00	103.09	103.09	80-120	
Acetone	100.00	115.87	115.88	80-120	
Acetonitrile	500.00	479.23	95.85	80-120	
Allyl Chloride	50.00	44.91	89.83	80-120	
Benzene	50.00	46.73	93.47	80-120	
Bromobenzene	50.00	48.59	97.20	80-120	
Bromochloromethane	50.00	44.80	89.62	80-120	
Bromodichlorometha	50.00	50.86	101.73	80-120	
Bromoform	50.00	50.40	100.80	80-120	
Bromomethane	50.00	52.24	104.49	80-120	
Carbon Tetrachlori	50.00	43.04	86.09	80-120	
Chlorobenzene	50.00	46.07	92.16	80-120	
Chloroethane	50.00	42.66	85.33	80-120	
Chloroform	50.00	46.58	93.17	80-120	
Chloromethane	50.00	46.05	92.11	80-120	
Chloroprene	50.00	41.81	83.63	80-120	
cis-1,2-Dichloroet	50.00	43.18	86.37	80-120	
cis-1,3-Dichloropr	50.00	51.12	102.25	80-120	
Dibromochlorometha	50.00	48.25	96.51	80-120	
Dibromomethane	50.00	50.81	101.63	80-120	
Dichlorodifluorome	50.00	41.35	82.71	80-120	
Ethylbenzene	50.00	43.74	87.48	80-120	
Ethyl Methacrylate	50.00	45.45	90.91	80-120	
Iodomethane	100.00	98.16	98.17	80-120	
Isobutyl Alcohol	1000.00	1059.98	106.00	70-130	
Propionitrile	500.00	477.22	95.45	70-130	
Hexachlorobutadien	50.00	48.89	97.80	80-120	
Isopropylbenzene	50.00	42.85	85.70	80-120	
m,p-Xylenes	100.00	88.22	88.23	80-120	
Methyl tert-butyl	50.00	44.90	89.82	80-120	
Methylene Chloride	50.00	45.58	91.17	80-120	
Methacrylonitrile	50.00	50.48	100.97	80-120	
Methyl Methacrylat	50.00	51.29	102.58	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430425

Instrument ID voa6.i ICAL Date 17-MAR-2023
Lab File ID X031713.D ICAL Time 1355
?VAL? ?VAL? Conc Units ug/L
Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.00	49.41	98.82	80-120	
n-Propylbenzene	50.00	45.80	91.61	80-120	
Naphthalene	50.00	53.24	106.49	80-120	
o-Xylene	50.00	44.53	89.08	80-120	
sec-Butylbenzene	50.00	42.06	84.13	80-120	
Styrene	50.00	48.45	96.92	80-120	
tert-Butylbenzene	50.00	42.95	85.91	80-120	
Tetrachloroethene	50.00	42.56	85.13	80-120	
Toluene	50.00	45.79	91.60	80-120	
trans-1,2-Dichloro	50.00	42.69	85.40	80-120	
trans-1,3-Dichloro	50.00	53.42	106.85	80-120	
trans-1,4-Dichloro	50.00	52.13	104.27	80-120	
Trichloroethene	50.00	42.62	85.25	80-120	
Trichlorofluoromet	50.00	44.23	88.48	80-120	
Vinyl Acetate	100.00	104.31	104.32	80-120	
Vinyl Chloride	50.00	45.61	91.22	80-120	
1,2-Dichloroethyle	100.00	85.88	85.88	80-120	
Xylenes (total)	150.00	132.76	88.51	80-120	
1,4-Dioxane	1000.00	949.60	94.96	80-120	
Dibromofluorometha	50.00	53.33	106.66	71-125	
1,2-Dichloroethane	50.00	53.95	107.91	70-125	
Toluene-d8	50.00	49.38	98.76	75-125	
4-Bromofluorobenze	50.00	52.50	105.01	72-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA 8260

Workorder

HS23030818

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

03/22/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430439

Instrument ID voa6.i Injection Date 19-MAR-2023 1239
Lab File ID X031902.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00663	0.00612	0.00612	0.001	7.70830	20.0	Averaged	
1,3-Butadiene	0.33908	0.32411	0.32411	0.100	4.41492	20.0	Averaged	
Methacrylonitrile	0.46082	0.44630	0.44630	0.100	3.15120	20.0	Averaged	
Isobutyl Alcohol	0.06822	0.07050	0.07050	0.005	-3.34542	20.0	Averaged	
Acetonitrile	0.04653	0.04430	0.04430	0.005	4.79297	20.0	Averaged	
Allyl Chloride	1.15102	0.99732	0.99732	0.100	13.35312	20.0	Averaged	
Propionitrile	0.07045	0.06334	0.06334	0.010	10.09768	20.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	51.44216	0.11455	0.050	-2.88432	20.0	Linear	
Acetaldehyde	200	214	0.03196	0.001	-7.16140	20.0	Linear	
Chloroprene	0.13712	0.13220	0.13220	0.100	3.58646	20.0	Averaged	
Ethyl Acetate	0.51642	0.51810	0.51810	0.100	-0.32532	20.0	Averaged	
Methyl Methacrylate	0.44584	0.43579	0.43579	0.100	2.25342	20.0	Averaged	
Ethyl Methacrylate	0.36808	0.30901	0.30901	0.100	16.04704	20.0	Averaged	
Methyl Acrylate	0.51782	0.52916	0.52916	0.100	-2.19169	20.0	Averaged	
n-Butanol	1000	905	0.01166	0.005	9.51806	20.0	Linear	
n-Hexane	50.0	50.23927	0.33951	0.100	-0.47853	20.0	Quadratic	
Diethyl ether	0.33502	0.31792	0.31792	0.100	5.10508	20.0	Averaged	
Tetrahydrofuran	0.08165	0.07742	0.07742	0.001	5.18054	20.0	Averaged	
alpha-Methylstyrene	1.09009	1.05480	1.05480	0.100	3.23786	20.0	Averaged	
Diisopropyl ether	1.55229	1.48456	1.48456	0.100	4.36303	20.0	Averaged	
Butyl acrylate	0.73802	0.72934	0.72934	0.100	1.17616	20.0	Averaged	
Ethanol	0.00448	0.00425	0.00425	0.001	5.15799	20.0	Averaged	
Dimethyl Disulfide	0.65474	0.68389	0.68389	0.100	-4.45200	20.0	Averaged	
Epichlorohydrin	0.02852	0.02713	0.02713	0.001	4.88702	20.0	Averaged	
1,2,3-Trimethylbenzene	2.39781	2.19806	2.19806	0.100	8.33029	20.0	Averaged	
Dichlorodifluoromethane	50.0	46.23824	0.31469	0.100	7.52352	20.0	Quadratic	
Chloromethane	0.45993	0.45281	0.45281	0.100	1.54632	20.0	Averaged	
Vinyl Chloride	0.39382	0.39126	0.39126	0.100	0.65119	20.0	Averaged	
Bromomethane	0.22643	0.22779	0.22779	0.100	-0.59910	20.0	Averaged	
Chloroethane	0.27929	0.25184	0.25184	0.100	9.82997	20.0	Averaged	
Trichlorofluoromethane	0.46712	0.42044	0.42044	0.100	9.99466	20.0	Averaged	
Acrolein	100	86.17726	0.02436	0.010	13.82274	20.0	Linear	
Acetone	100	80.60639	0.10672	0.100	19.39361	20.0	Linear	
1,1-Dichloroethene	0.30026	0.24940	0.24940	0.100	16.93687	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430439

Instrument ID voa6.i Injection Date 19-MAR-2023 1239
Lab File ID X031902.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Iodomethane	100	110	0.39209	0.100	-9.60390	20.0	Quadratic	
Acrylonitrile	0.16685	0.15823	0.15823	0.050	5.16580	20.0	Averaged	
Methylene Chloride	50.0	50.21490	0.49089	0.100	-0.42981	20.0	Linear	
Methyl tert-butyl ether	1.58098	1.44675	1.44675	0.100	8.48990	20.0	Averaged	
Carbon Disulfide	1.10319	0.90541	0.90541	0.100	17.92851	20.0	Averaged	
trans-1,2-Dichloroethene	0.42349	0.40605	0.40605	0.100	4.11756	20.0	Averaged	
Vinyl Acetate	1.27609	1.37034	1.37034	0.010	-7.38609	20.0	Averaged	
1,1-Dichloroethane	0.76698	0.75874	0.75874	0.200	1.07425	20.0	Averaged	
2-Butanone	0.17902	0.17127	0.17127	0.100	4.33269	20.0	Averaged	
2,2-Dichloropropane	50.0	54.21192	0.65482	0.100	-8.42384	20.0	Linear	
cis-1,2-Dichloroethene	0.51249	0.50046	0.50046	0.100	2.34592	20.0	Averaged	
Chloroform	0.85126	0.83661	0.83661	0.200	1.72156	20.0	Averaged	
Bromochloromethane	0.29002	0.27054	0.27054	0.100	6.71573	20.0	Averaged	
Dibromofluoromethane	50.0	53.96409	0.50228	0.100	-7.92818	20.0	Linear	
1,1,1-Trichloroethane	0.63658	0.64228	0.64228	0.100	-0.89661	20.0	Averaged	
1,1-Dichloropropene	0.35675	0.34227	0.34227	0.100	4.05930	20.0	Averaged	
1,2-Dichloroethane	0.41566	0.43563	0.43563	0.100	-4.80440	20.0	Averaged	
Carbon Tetrachloride	0.34151	0.32363	0.32363	0.100	5.23756	20.0	Averaged	
1,2-Dichloroethane-d4	50.0	53.48570	0.57746	0.100	-6.97140	20.0	Linear	
Benzene	1.22946	1.16166	1.16166	0.500	5.51461	20.0	Averaged	
Trichloroethene	0.33116	0.31585	0.31585	0.200	4.62301	20.0	Averaged	
Bromodichloromethane	0.43642	0.44398	0.44398	0.200	-1.73165	20.0	Averaged	
2-Chloroethylvinyl ether	0.13269	0.13474	0.13474	0.001	-1.54816	20.0	Averaged	
1,2-Dichloropropane	0.33133	0.32456	0.32456	0.100	2.04318	20.0	Averaged	
Dibromomethane	0.21134	0.21092	0.21092	0.100	0.19801	20.0	Averaged	
4-Methyl-2-Pentanone	0.31636	0.31229	0.31229	0.100	1.28640	20.0	Averaged	
cis-1,3-Dichloropropene	0.55123	0.56485	0.56485	0.200	-2.46975	20.0	Averaged	
Toluene-d8	1.23950	1.22107	1.22107	0.100	1.48719	20.0	Averaged	
Toluene	1.31183	1.27736	1.27736	0.400	2.62700	20.0	Averaged	
trans-1,3-Dichloropropene	0.45762	0.48234	0.48234	0.100	-5.40027	20.0	Averaged	
2-Hexanone	0.21713	0.21285	0.21285	0.100	1.96914	20.0	Averaged	
1,1,2-Trichloroethane	0.28521	0.27202	0.27202	0.100	4.62311	20.0	Averaged	
1,3-Dichloropropane	0.56683	0.55703	0.55703	0.100	1.72793	20.0	Averaged	
Dibromochloromethane	0.40290	0.39852	0.39852	0.100	1.08731	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430439

Instrument ID voa6.i Injection Date 19-MAR-2023 1239
Lab File ID X031902.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Tetrachloroethene	0.26297	0.24028	0.24028	0.200	8.63098	20.0	Averaged	
1,2-Dibromoethane	0.35253	0.35065	0.35065	0.100	0.53393	20.0	Averaged	
1-Chlorohexane	50.0	44.31884	0.21031	0.100	11.36233	20.0	Linear	
Chlorobenzene	0.93747	0.90511	0.90511	0.500	3.45173	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36126	0.35113	0.35113	0.100	2.80490	20.0	Averaged	
Ethylbenzene	0.46137	0.42218	0.42218	0.100	8.49416	20.0	Averaged	
m,p-Xylenes	0.58063	0.53530	0.53530	0.100	7.80628	20.0	Averaged	
o-Xylene	0.58343	0.54198	0.54198	0.300	7.10435	20.0	Averaged	
Styrene	0.96405	0.96481	0.96481	0.300	-0.07943	20.0	Averaged	
Bromoform	0.27859	0.28028	0.28028	0.100	-0.60775	20.0	Averaged	
Isopropylbenzene	1.33626	1.18741	1.18741	0.100	11.13902	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.87122	0.82168	0.82168	0.300	5.68687	20.0	Averaged	
4-Bromofluorobenzene	50.0	52.56130	0.49753	0.100	-5.12261	20.0	Linear	
1,2,3-Trichloropropane	0.65476	0.69531	0.69531	0.100	-6.19237	20.0	Averaged	
n-Propylbenzene	2.77894	2.56651	2.56651	0.100	7.64404	20.0	Averaged	
Bromobenzene	0.80387	0.78966	0.78966	0.100	1.76756	20.0	Averaged	
1,3,5-Trimethylbenzene	2.15544	1.94282	1.94282	0.100	9.86436	20.0	Averaged	
2-Chlorotoluene	1.86840	1.77330	1.77330	0.100	5.09009	20.0	Averaged	
4-Chlorotoluene	2.10589	2.06452	2.06452	0.100	1.96430	20.0	Averaged	
tert-Butylbenzene	1.71676	1.49885	1.49885	0.100	12.69334	20.0	Averaged	
1,2,4-Trimethylbenzene	2.21056	2.05640	2.05640	0.100	6.97376	20.0	Averaged	
sec-Butylbenzene	2.32687	1.99646	1.99646	0.100	14.19964	20.0	Averaged	
p-Isopropyltoluene	2.07629	1.86872	1.86872	0.100	9.99724	20.0	Averaged	
1,3-Dichlorobenzene	1.39033	1.32128	1.32128	0.600	4.96617	20.0	Averaged	
1,4-Dichlorobenzene	1.49428	1.38824	1.38824	0.400	7.09669	20.0	Averaged	
n-Butylbenzene	1.67342	1.59124	1.59124	0.500	4.91069	20.0	Averaged	
1,2-Dichlorobenzene	1.39061	1.34646	1.34646	0.400	3.17503	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	45.52859	0.14567	0.040	8.94283	20.0	Linear	
1,2,4-Trichlorobenzene	1.01667	0.96137	0.96137	0.100	5.43912	20.0	Averaged	
Hexachlorobutadiene	50.0	44.13209	0.34598	0.100	11.73582	20.0	Quadratic	
Naphthalene	2.44011	2.38595	2.38595	0.200	2.21949	20.0	Averaged	
1,2,3-Trichlorobenzene	0.97286	0.91370	0.91370	0.010	6.08140	20.0	Averaged	
1,2-Dichloroethylene (total	0.46799	0.45326	0.45326	0.200	3.14751	20.0	Averaged	
Xylenes (total)	0.55485	0.51574	0.51574	0.100	7.04773	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430439

Instrument ID voa6.i Injection Date 19-MAR-2023 1239
Lab File ID X031902.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Cyclohexane	50.0	44.26172	0.46897	0.100	11.47656	20.0	Quadratic	
Freon TF	50.0	41.19671	0.22590	0.100	17.60658	20.0	Quadratic	
Methylcyclohexane	0.69037	0.65119	0.65119	0.100	5.67408	20.0	Averaged	
Methyl Acetate	0.28739	0.28213	0.28213	0.100	1.83147	20.0	Averaged	
Tert-butyl alcohol	0.05236	0.04821	0.04821	0.005	7.93101	20.0	Averaged	
Isopropyl alcohol	0.02798	0.02372	0.02372	0.005	15.22645	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430439

Instrument ID voa6.i Injection Date 19-MAR-2023 1836
Lab File ID X031919.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00663	0.00580	0.00580	0.001	12.52202	50.0	Averaged	
1,3-Butadiene	0.33908	0.29884	0.29884	0.100	11.87007	50.0	Averaged	
Methacrylonitrile	0.46082	0.48481	0.48481	0.100	-5.20408	50.0	Averaged	
Isobutyl Alcohol	0.06822	0.07288	0.07288	0.005	-6.84248	50.0	Averaged	
Acetonitrile	0.04653	0.05056	0.05056	0.005	-8.63995	50.0	Averaged	
Allyl Chloride	1.15102	1.09325	1.09325	0.100	5.01941	50.0	Averaged	
Propionitrile	0.07045	0.07018	0.07018	0.010	0.38792	50.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	50.40572	0.11222	0.050	-0.81144	50.0	Linear	
Acetaldehyde	200	186	0.02777	0.001	6.93176	50.0	Linear	
Chloroprene	0.13712	0.10628	0.10628	0.100	22.48870	50.0	Averaged	
Ethyl Acetate	0.51642	0.54413	0.54413	0.100	-5.36589	50.0	Averaged	
Methyl Methacrylate	0.44584	0.47126	0.47126	0.100	-5.70320	50.0	Averaged	
Ethyl Methacrylate	0.36808	0.00299	0.00299	0.100	99	50.0	Averaged	<-
Methyl Acrylate	0.51782	0.50797	0.50797	0.100	1.90168	50.0	Averaged	
n-Butanol	1000	883	0.01137	0.005	11.66425	50.0	Linear	
n-Hexane	50.0	42.12042	0.27574	0.100	15.75916	50.0	Quadratic	
Diethyl ether	0.33502	0.30843	0.30843	0.100	7.93854	50.0	Averaged	
Tetrahydrofuran	0.08165	0.08686	0.08686	0.001	-6.38342	50.0	Averaged	
alpha-Methylstyrene	1.09009	0.98884	0.98884	0.100	9.28859	50.0	Averaged	
Diisopropyl ether	1.55229	1.53079	1.53079	0.100	1.38466	50.0	Averaged	
Butyl acrylate	0.73802	0.78374	0.78374	0.100	-6.19512	50.0	Averaged	
Ethanol	0.00448	0.00372	0.00372	0.001	16.98988	50.0	Averaged	
Dimethyl Disulfide	0.65474	0.69873	0.69873	0.100	-6.71824	50.0	Averaged	
Epichlorohydrin	0.02852	0.02810	0.02810	0.001	1.49291	50.0	Averaged	
1,2,3-Trimethylbenzene	2.39781	2.29121	2.29121	0.100	4.44549	50.0	Averaged	
Dichlorodifluoromethane	50.0	42.46082	0.28779	0.100	15.07837	50.0	Quadratic	
Chloromethane	0.45993	0.37348	0.37348	0.100	18.79580	50.0	Averaged	
Vinyl Chloride	0.39382	0.35111	0.35111	0.100	10.84539	50.0	Averaged	
Bromomethane	0.22643	0.19817	0.19817	0.100	12.48105	50.0	Averaged	
Chloroethane	0.27929	0.26808	0.26808	0.100	4.01465	50.0	Averaged	
Trichlorofluoromethane	0.46712	0.43969	0.43969	0.100	5.87377	50.0	Averaged	
Acrolein	100	89.54701	0.02535	0.010	10.45299	50.0	Linear	
Acetone	100	94.02498	0.12341	0.100	5.97502	50.0	Linear	
1,1-Dichloroethene	0.30026	0.24968	0.24968	0.100	16.84397	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430439

Instrument ID voa6.i Injection Date 19-MAR-2023 1836
Lab File ID X031919.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Iodomethane	100	90.27483	0.31310	0.100	9.72517	50.0	Quadratic	
Acrylonitrile	0.16685	0.16835	0.16835	0.050	-0.89745	50.0	Averaged	
Methylene Chloride	50.0	49.99162	0.48878	0.100	0.01676	50.0	Linear	
Methyl tert-butyl ether	1.58098	1.54793	1.54793	0.100	2.08998	50.0	Averaged	
Carbon Disulfide	1.10319	0.99826	0.99826	0.100	9.51138	50.0	Averaged	
trans-1,2-Dichloroethene	0.42349	0.39968	0.39968	0.100	5.62276	50.0	Averaged	
Vinyl Acetate	1.27609	1.38316	1.38316	0.010	-8.39046	50.0	Averaged	
1,1-Dichloroethane	0.76698	0.73639	0.73639	0.200	3.98841	50.0	Averaged	
2-Butanone	0.17902	0.17711	0.17711	0.100	1.06683	50.0	Averaged	
2,2-Dichloropropane	50.0	47.48072	0.57389	0.100	5.03855	50.0	Linear	
cis-1,2-Dichloroethene	0.51249	0.50069	0.50069	0.100	2.30191	50.0	Averaged	
Chloroform	0.85126	0.83669	0.83669	0.200	1.71151	50.0	Averaged	
Bromochloromethane	0.29002	0.28076	0.28076	0.100	3.19202	50.0	Averaged	
Dibromofluoromethane	50.0	56.60574	0.52652	0.100	-13.21148	50.0	Linear	
1,1,1-Trichloroethane	0.63658	0.60928	0.60928	0.100	4.28715	50.0	Averaged	
1,1-Dichloropropene	0.35675	0.30715	0.30715	0.100	13.90573	50.0	Averaged	
1,2-Dichloroethane	0.41566	0.44064	0.44064	0.100	-6.01114	50.0	Averaged	
Carbon Tetrachloride	0.34151	0.29281	0.29281	0.100	14.25999	50.0	Averaged	
1,2-Dichloroethane-d4	50.0	56.73438	0.61323	0.100	-13.46876	50.0	Linear	
Benzene	1.22946	1.10901	1.10901	0.500	9.79723	50.0	Averaged	
Trichloroethene	0.33116	0.30171	0.30171	0.200	8.89175	50.0	Averaged	
Bromodichloromethane	0.43642	0.43706	0.43706	0.200	-0.14742	50.0	Averaged	
2-Chloroethylvinyl ether	0.13269	0.12817	0.12817	0.001	3.40298	50.0	Averaged	
1,2-Dichloropropane	0.33133	0.30468	0.30468	0.100	8.04279	50.0	Averaged	
Dibromomethane	0.21134	0.21278	0.21278	0.100	-0.68091	50.0	Averaged	
4-Methyl-2-Pentanone	0.31636	0.33241	0.33241	0.100	-5.07306	50.0	Averaged	
cis-1,3-Dichloropropene	0.55123	0.53145	0.53145	0.200	3.58873	50.0	Averaged	
Toluene-d8	1.23950	1.22776	1.22776	0.100	0.94779	50.0	Averaged	
Toluene	1.31183	1.23581	1.23581	0.400	5.79449	50.0	Averaged	
trans-1,3-Dichloropropene	0.45762	0.46440	0.46440	0.100	-1.48064	50.0	Averaged	
2-Hexanone	0.21713	0.22657	0.22657	0.100	-4.35042	50.0	Averaged	
1,1,2-Trichloroethane	0.28521	0.27583	0.27583	0.100	3.28662	50.0	Averaged	
1,3-Dichloropropane	0.56683	0.56451	0.56451	0.100	0.40850	50.0	Averaged	
Dibromochloromethane	0.40290	0.40057	0.40057	0.100	0.57790	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430439

Instrument ID voa6.i Injection Date 19-MAR-2023 1836
Lab File ID X031919.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Tetrachloroethene	0.26297	0.23074	0.23074	0.200	12.25567	50.0	Averaged	
1,2-Dibromoethane	0.35253	0.35863	0.35863	0.100	-1.73022	50.0	Averaged	
1-Chlorohexane	50.0	40.47517	0.19110	0.100	19.04967	50.0	Linear	
Chlorobenzene	0.93747	0.87830	0.87830	0.500	6.31139	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36126	0.34295	0.34295	0.100	5.06708	50.0	Averaged	
Ethylbenzene	0.46137	0.40123	0.40123	0.100	13.03452	50.0	Averaged	
m,p-Xylenes	0.58063	0.51215	0.51215	0.100	11.79315	50.0	Averaged	
o-Xylene	0.58343	0.52249	0.52249	0.300	10.44632	50.0	Averaged	
Styrene	0.96405	0.93867	0.93867	0.300	2.63206	50.0	Averaged	
Bromoform	0.27859	0.28342	0.28342	0.100	-1.73238	50.0	Averaged	
Isopropylbenzene	1.33626	1.12359	1.12359	0.100	15.91517	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.87122	0.84463	0.84463	0.300	3.05221	50.0	Averaged	
4-Bromofluorobenzene	50.0	53.25905	0.50411	0.100	-6.51809	50.0	Linear	
1,2,3-Trichloropropane	0.65476	0.66062	0.66062	0.100	-0.89524	50.0	Averaged	
n-Propylbenzene	2.77894	2.38009	2.38009	0.100	14.35239	50.0	Averaged	
Bromobenzene	0.80387	0.76896	0.76896	0.100	4.34272	50.0	Averaged	
1,3,5-Trimethylbenzene	2.15544	1.84451	1.84451	0.100	14.42531	50.0	Averaged	
2-Chlorotoluene	1.86840	1.68662	1.68662	0.100	9.72910	50.0	Averaged	
4-Chlorotoluene	2.10589	1.96858	1.96858	0.100	6.52031	50.0	Averaged	
tert-Butylbenzene	1.71676	1.41813	1.41813	0.100	17.39521	50.0	Averaged	
1,2,4-Trimethylbenzene	2.21056	1.98417	1.98417	0.100	10.24103	50.0	Averaged	
sec-Butylbenzene	2.32687	1.86725	1.86725	0.100	19.75260	50.0	Averaged	
p-Isopropyltoluene	2.07629	1.76178	1.76178	0.100	15.14786	50.0	Averaged	
1,3-Dichlorobenzene	1.39033	1.26619	1.26619	0.600	8.92866	50.0	Averaged	
1,4-Dichlorobenzene	1.49428	1.33934	1.33934	0.400	10.36894	50.0	Averaged	
n-Butylbenzene	1.67342	1.45773	1.45773	0.500	12.88898	50.0	Averaged	
1,2-Dichlorobenzene	1.39061	1.30646	1.30646	0.400	6.05111	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	48.76935	0.15638	0.040	2.46131	50.0	Linear	
1,2,4-Trichlorobenzene	1.01667	0.92546	0.92546	0.100	8.97186	50.0	Averaged	
Hexachlorobutadiene	50.0	38.07522	0.29440	0.100	23.84956	50.0	Quadratic	
Naphthalene	2.44011	2.44551	2.44551	0.200	-0.22137	50.0	Averaged	
1,2,3-Trichlorobenzene	0.97286	0.89558	0.89558	0.010	7.94335	50.0	Averaged	
1,2-Dichloroethylene (total	0.46799	0.45018	0.45018	0.200	3.80445	50.0	Averaged	
Xylenes (total)	0.55485	0.48888	0.48888	0.100	11.88852	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23030818

RunID VOA6_430439

Instrument ID voa6.i Injection Date 19-MAR-2023 1836
Lab File ID X031919.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Cyclohexane	50.0	40.21728	0.42289	0.100	19.56544	50.0	Quadratic	
Freon TF	50.0	38.51245	0.21025	0.100	22.97510	50.0	Quadratic	
Methylcyclohexane	0.69037	0.69378	0.69378	0.100	-0.49380	50.0	Averaged	
Methyl Acetate	0.28739	0.31003	0.31003	0.100	-7.87878	50.0	Averaged	
Tert-butyl alcohol	0.05236	0.05154	0.05154	0.005	1.56752	50.0	Averaged	
Isopropyl alcohol	0.02798	0.02661	0.02661	0.005	4.89232	50.0	Averaged	

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Form 8

Internal Standard Area and RT Summary

Volatiles by EPA 8260

Workorder

HS23030818

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

03/22/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder
HS23030818

RunID
VOA6_430439

		IS1				IS2				IS3				IS4			
Sample ID	File ID	Area		RT		Area		RT		Area		RT		Area		RT	
12-HOUR STD (CCV)	X031902	440175	#	4.18	#	697076	#	4.96	#	668823	#	7.67	#	365279	#	9.66	#
CCB	X031904	486140		4.18		690825		4.96		620772		7.67		362961		9.66	
VLCSW-230319	X031905	444159		4.18		702809		4.96		667260		7.67		367486		9.66	
VBLKW-230319	X031907	574984		4.18		823958		4.96		727797		7.67		388625		9.66	
HS23030818-02	X031908	499806		4.18		721241		4.96		708462		7.67		368503		9.66	
HS23030818-01	X031911	508136		4.18		832170		4.97		728919		7.67		372020		9.66	
ZZZZZZMS	X031917	579517		4.18		826653		4.97		739624		7.67		392495		9.66	
ZZZZZZMSD	X031918	578469		4.18		824024		4.96		747786		7.67		404951		9.66	
CCV-END	X031919	424552		4.18		684491		4.97		649027		7.67		361221		9.66	

IS1 - Pentafluorobenzene IS2 - 1,4-Difluorobenzene IS3 - Chlorobenzene-d5 IS4 - 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention Time IS - Internal Standard

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

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Analysis Run Log

Volatiles by EPA 8260

Workorder

HS23030818

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

03/22/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder
HS23030818

RunID
VOA6_430425

Run ID VOA6_430425 **Start Date** 03/17/23 **EndDate** 03/17/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
11:08	BFB	TUNE	BFB	X031701.D	03/17/23	1
11:29	VSTD000.25	ICAL1	VSTD000.25	X031702.D	03/17/23	1
12:11	VSTD000.5	ICAL2	VSTD000.5	X031703.D	03/17/23	1
12:32	VSTD001	ICAL3	VSTD001	X031704.D	03/17/23	1
12:53	VSTD002	ICAL4	VSTD002	X031705.D	03/17/23	1
13:14	VSTD005	ICAL5	VSTD005	X031706.D	03/17/23	1
13:35	VSTD020	ICAL6	VSTD020	X031707.D	03/17/23	1
13:55	VSTD050	ICAL7	VSTD050	X031708.D	03/17/23	1
14:16	VSTD100	ICAL8	VSTD100	X031709.D	03/17/23	1
14:37	VSTD150	ICAL9	VSTD150	X031710.D	03/17/23	1
14:58	VSTD200	ICAL	VSTD200	X031711.D	03/17/23	1
15:40	CCV	ICV	CCV	X031713.D	03/17/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder
HS23030818

RunID
VOA6_430439

Run ID VOA6_430439 **Start Date** 03/19/23 **EndDate** 03/19/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
12:18	BFB	TUNE	BFB	X031901.D	03/19/23	1
12:39	CCV	CCV	CCV	X031902.D	03/19/23	1
13:21	CCB	CCB	CCB	X031904.D	03/19/23	1
13:42	VLCSW-230319	LCS	VLCSW-230319	X031905.D	03/19/23	1
14:24	VBLKW-230319	MBLK	VBLKW-230319	X031907.D	03/19/23	1
14:45	Trip Blank	SAMP	HS23030818-02	X031908.D	03/19/23	1
15:06	ZZZZZZZZZZ	SAMP	HS23030822-04	X031909.D	03/19/23	1
15:27	ZZZZZZZZZZ	SAMP	HS23030822-03	X031910.D	03/19/23	1
15:48	LH18/24-SP650_031423	SAMP	HS23030818-01	X031911.D	03/19/23	1
16:09	ZZZZZZZZZZ	SAMP	HS23030822-01	X031912.D	03/19/23	1
16:30	ZZZZZZZZZZ	SAMP	HS23030822-02	X031913.D	03/19/23	1
17:54	ZZZZZZMS	MS	HS23030822-01MS	X031917.D	03/19/23	1
18:15	ZZZZZZMSD	MSD	HS23030822-01MSD	X031918.D	03/19/23	1
18:36	CCV-END	CCV_END	CCV-END	X031919.D	03/19/23	1

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Raw Data VOA6 430425

Volatiles by EPA 8260

Workorder

HS23030818

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

03/22/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

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Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031701.D Page 1
Report Date: 17-Mar-2023 12:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031701.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 17-MAR-2023 11:08
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.691	8.889	(0.000)	95	77928			0.00- 100.00	100.00
8.691	8.889	(0.000)	50	11882			15.00- 40.00	15.25
8.691	8.889	(0.000)	75	34576			30.00- 60.00	44.37
8.691	8.889	(0.000)	96	5353			5.00- 9.00	6.87
8.691	8.889	(0.000)	173	519			0.00- 2.00	0.81
8.691	8.889	(0.000)	174	64408			50.00- 0.00	82.65
8.691	8.889	(0.000)	175	4678			5.00- 9.00	7.26
8.691	8.889	(0.000)	176	63808			95.00- 101.00	99.07
8.691	8.889	(0.000)	177	3978			5.00- 9.00	6.23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.25
75	30.00 - 60.00% of mass 95	44.37
96	5.00 - 9.00% of mass 95	6.87
173	Less than 2.00% of mass 174	0.67 (0.81)
174	Greater than 50.00% of mass 95	82.65
175	5.00 - 9.00% of mass 174	6.00 (7.26)
176	95.00 - 101.00% of mass 174	81.88 (99.07)
177	5.00 - 9.00% of mass 176	5.10 (6.23)

Data File: X031701.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	483	64.20	161	93.00	2513	139.80	71
37.00	2843	64.80	68	94.00	7408	140.80	587
38.00	2608	66.90	121	95.00	77928	141.80	95
38.90	991	68.00	5827	96.00	5353	142.90	519
40.00	1074	69.00	6800	97.00	335	144.90	63
42.80	102	70.00	597	103.80	383	145.80	135
44.00	1173	72.10	324	104.80	95	147.80	183
45.00	711	72.90	2604	105.80	183	153.80	69
47.20	912	74.00	11145	107.10	110	154.70	87
47.80	316	75.00	34576	112.60	99	157.00	123
49.00	2575	76.10	2966	114.90	107	159.00	52
50.10	11882	76.90	658	116.00	188	160.90	61
51.00	3681	78.10	369	117.00	484	172.10	63
51.90	205	79.00	1540	117.90	236	173.00	519
55.00	261	79.90	570	119.00	361	173.90	64408
56.00	1067	80.90	1492	127.90	189	174.90	4678
57.10	1577	81.90	352	128.80	166	175.90	63808
60.00	520	86.90	3159	130.10	197	177.00	3978
61.00	2432	88.00	3204	130.70	63	177.80	61
62.10	3141	90.90	299	134.80	57	186.00	56
63.00	1965	91.90	2149	136.90	119		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031701.D

Date : 17-MAR-2023 11:08

Client ID: BFB

Instrument: voa6.i

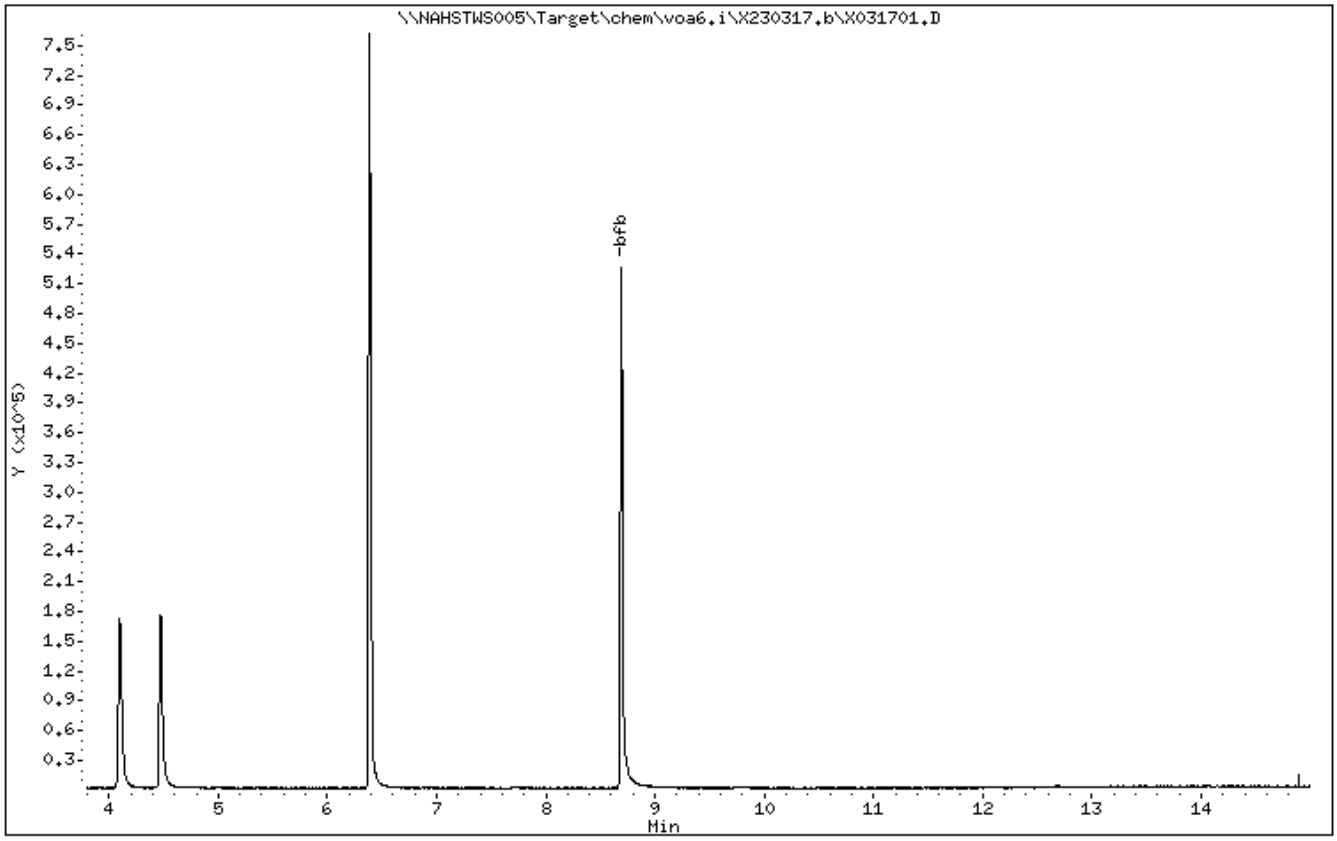
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031701.D Page 2

Date : 17-MAR-2023 11:08

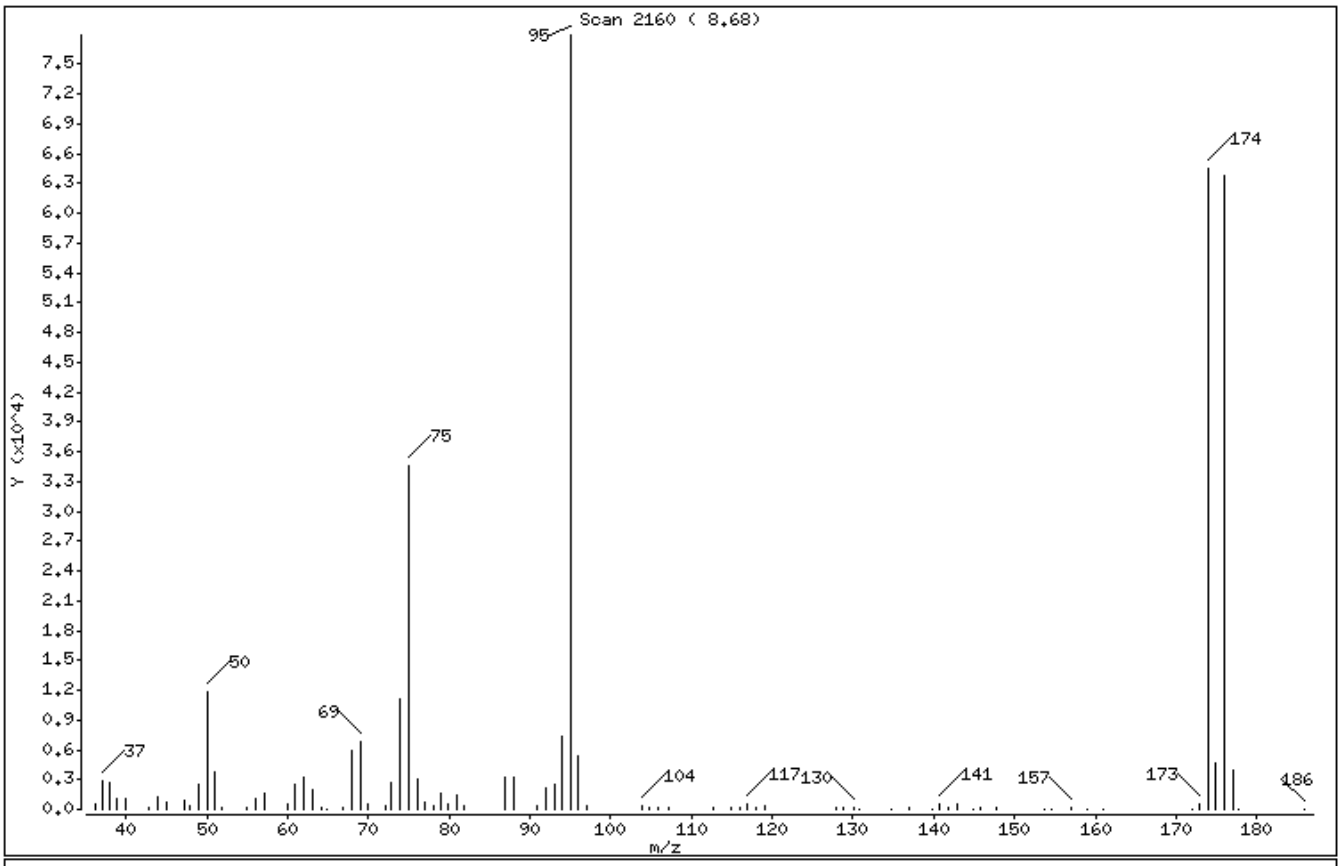
Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.25
75	30.00 - 60.00% of mass 95	44.37
96	5.00 - 9.00% of mass 95	6.87
173	Less than 2.00% of mass 174	0.67 (0.81)
174	Greater than 50.00% of mass 95	82.65
175	5.00 - 9.00% of mass 174	6.00 (7.26)
176	95.00 - 101.00% of mass 174	81.88 (99.07)
177	5.00 - 9.00% of mass 176	5.10 (6.23)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031701.D

Date : 17-MAR-2023 11:08

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

Data File: X031701.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	483	64.20	161	93.00	2513	139.80	71
37.00	2843	64.80	68	94.00	7408	140.80	587
38.00	2608	66.90	121	95.00	77928	141.80	95
38.90	991	68.00	5827	96.00	5353	142.90	519
40.00	1074	69.00	6800	97.00	335	144.90	63
42.80	102	70.00	597	103.80	383	145.80	135
44.00	1173	72.10	324	104.80	95	147.80	183
45.00	711	72.90	2604	105.80	183	153.80	69
47.20	912	74.00	11145	107.10	110	154.70	87
47.80	316	75.00	34576	112.60	99	157.00	123
49.00	2575	76.10	2966	114.90	107	159.00	52
50.10	11882	76.90	658	116.00	188	160.90	61
51.00	3681	78.10	369	117.00	484	172.10	63
51.90	205	79.00	1540	117.90	236	173.00	519
55.00	261	79.90	570	119.00	361	173.90	64408
56.00	1067	80.90	1492	127.90	189	174.90	4678
57.10	1577	81.90	352	128.80	166	175.90	63808
60.00	520	86.90	3159	130.10	197	177.00	3978
61.00	2432	88.00	3204	130.70	63	177.80	61
62.10	3141	90.90	299	134.80	57	186.00	56
63.00	1965	91.90	2149	136.90	119		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031702.D Page 1
Report Date: 21-Mar-2023 10:18

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031702.D
Lab Smp Id: VSTD000.25 Client Smp ID: VSTD000.25
Inj Date : 17-MAR-2023 11:29
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.25;VSTD000.25;1;1;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 21-Mar-2023 10:18 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

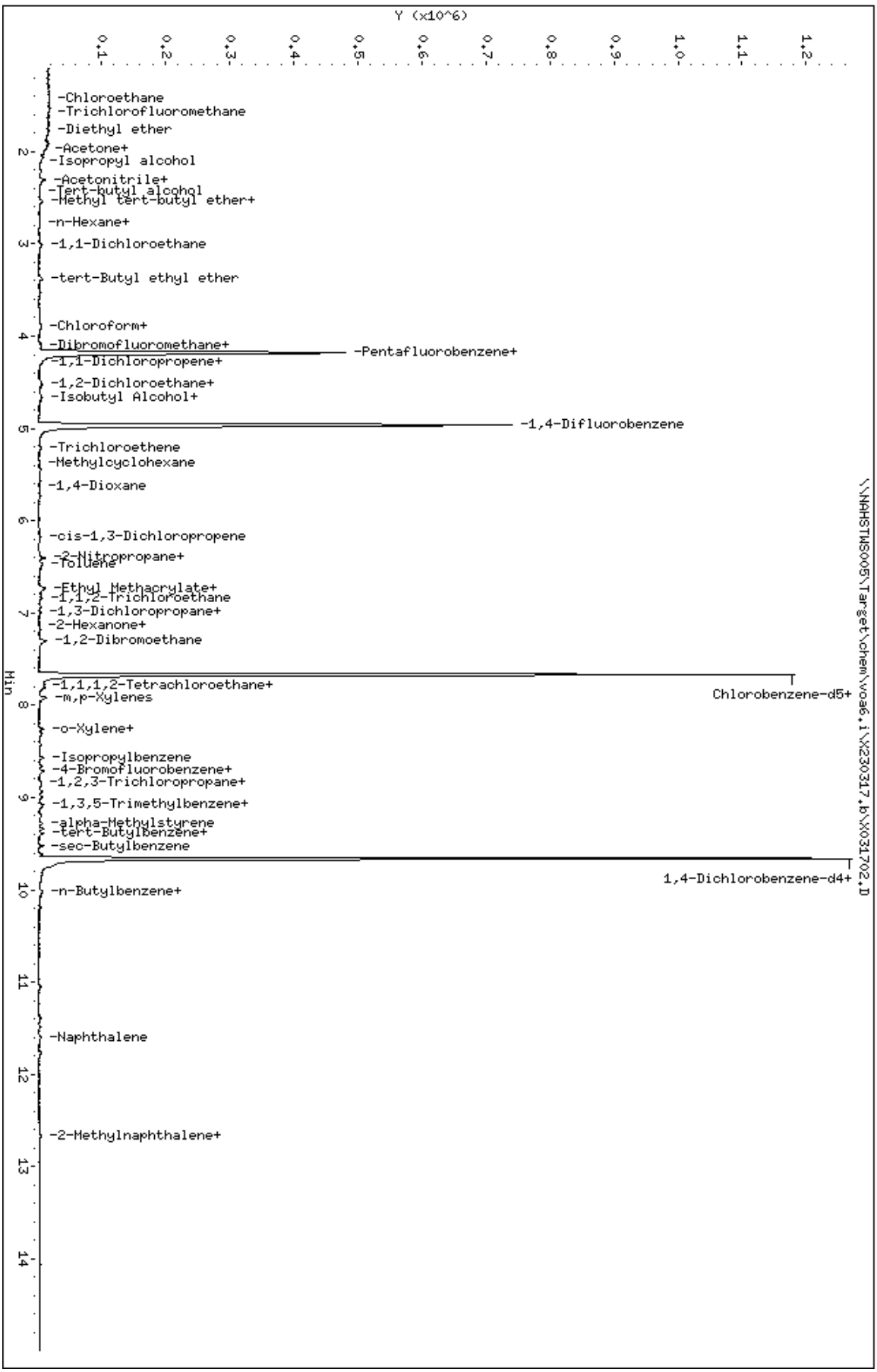
		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.177	4.177	(1.000)	400786	50.0000	
	7 Chloroethane	64	1.422	1.422	(0.341)	10096	0.25000	4.50
	13 Acetonitrile	39	2.209	2.209	(0.529)	1322	2.50000	3.54(a)
	15 Iodomethane	142	2.018	2.018	(0.483)	690	0.50000	9.50(T)
$	35 1,2-Dichloroethane-d4	65	4.485	4.485	(1.074)	2180	0.25000	1.54(T)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	631509	50.0000	
	43 2-Nitropropane	43	6.348	6.348	(1.520)	1735	0.25000	1.37(a)
	45 4-Methyl-2-Pentanone	43	6.348	6.348	(0.828)	1735	0.50000	0.45(a)
	46 cis-1,3-Dichloropropene	75	6.172	6.172	(1.243)	1780	0.25000	0.25(a)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	600997	50.0000	
$	48 Toluene-d8	98	6.400	6.400	(0.835)	7389	0.25000	0.49(a)
	49 Ethyl Methacrylate	69	6.734	6.734	(1.356)	2434	0.25000	0.52(a)
	50 Toluene	91	6.460	6.460	(0.843)	4871	0.25000	0.30(a)
	52 2-Hexanone	43	7.143	7.143	(0.932)	1044	0.50000	0.40(Ta)
	53 1,1,2-Trichloroethane	83	6.846	6.846	(0.893)	1065	0.25000	0.31(a)
	54 1,3-Dichloropropane	76	6.993	6.993	(0.912)	1955	0.25000	0.28(a)
	55 Dibromochloromethane	129	7.184	7.184	(0.937)	1479	0.25000	0.30(a)
	56 Tetrachloroethene	164	6.933	6.933	(0.904)	944	0.25000	0.29(a)
	57 1,2-Dibromoethane	107	7.274	7.274	(0.949)	1129	0.25000	0.26(a)
	58 1-Chlorohexane	55	7.705	7.705	(1.552)	969	0.25000	2.54(a)

59 Chlorobenzene	112	7.694	7.694 (1.003)	3426	0.25000	0.30(a)
60 1,1,1,2-Tetrachloroethane	131	7.780	7.780 (1.015)	1296	0.25000	0.29(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	61 Ethylbenzene	106	7.814	7.814	(1.019)	1903	0.25000	0.34(a)
	62 m,p-Xylenes	106	7.915	7.915	(1.032)	3668	0.50000	0.52(a)
	63 o-Xylene	106	8.256	8.256	(1.077)	1806	0.25000	0.25(a)
	64 Styrene	104	8.301	8.301	(1.083)	2186	0.25000	0.18(a)
	67 Isopropylbenzene	105	8.571	8.571	(1.118)	4459	0.25000	0.27(a)
$	69 4-Bromofluorobenzene	95	8.710	8.710	(1.136)	3416	0.25000	0.42(a)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	324194	50.0000	
	71 1,2,3-Trichloropropane	75	8.882	8.882	(0.919)	1716	0.25000	0.40(a)
	73 n-Propylbenzene	91	8.931	8.931	(0.924)	4915	0.25000	0.27(a)
	74 Bromobenzene	156	8.837	8.837	(0.915)	1467	0.25000	0.28(a)
	75 1,3,5-Trimethylbenzene	105	9.081	9.081	(0.940)	4272	0.25000	0.30(a)
	76 2-Chlorotoluene	91	8.994	8.994	(0.931)	4181	0.25000	0.34(a)
	77 4-Chlorotoluene	91	9.103	9.103	(0.942)	3867	0.25000	0.28(a)
	78 tert-Butylbenzene	119	9.339	9.339	(0.967)	3339	0.25000	0.29(a)
	79 1,2,4-Trimethylbenzene	105	9.392	9.392	(0.972)	4230	0.25000	0.29(a)
	81 sec-Butylbenzene	105	9.527	9.527	(0.986)	4392	0.25000	0.29(a)
	82 p-Isopropyltoluene	119	9.654	9.654	(0.999)	3331	0.25000	0.24(a)
	83 1,3-Dichlorobenzene	146	9.617	9.617	(0.995)	2361	0.25000	0.26(a)
	84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	3432	0.25000	0.35(a)
	88 1,2-Dichlorobenzene	146	10.014	10.014	(1.036)	2745	0.25000	0.30(a)
	92 Naphthalene	128	11.600	11.600	(1.201)	2752	0.25000	0.17(a)
	141 Cyclohexane	56	4.177	4.177	(1.000)	5635	0.25000	3.07(a)
	135 1,4-Dioxane	88	5.643	5.643	(1.351)	279	5.00000	5.24(aM)
	136 n-Hexane	57	2.772	2.772	(0.664)	792	0.25000	0.68(Ta)
	139 Diethyl ether	59	1.763	1.763	(0.422)	936	0.25000	0.34(Ta)
	148 Tert-butyl alcohol	59	2.438	2.438	(0.584)	2549	5.00000	6.07
	149 Isopropyl alcohol	45	2.104	2.104	(0.504)	1722	5.00000	7.67(T)
	160 2-Methylnaphthalene	142	12.668	12.668	(1.311)	1720	0.25000	0.21(a)
	166 1,2,3-Trimethylbenzene	105	9.737	9.737	(1.008)	4717	0.25000	0.30(a)
	174 tert-Amyl methyl ether	73	4.665	4.665	(1.117)	5282	0.25000	0.36(a)
	175 tert-Butyl ethyl ether	59	3.386	3.386	(0.811)	4051	0.25000	0.31(a)
	176 tert-Amyl alcohol	59	4.639	4.639	(1.110)	1680	5.00000	4.89(a)
	151 4-Methyl-2-pentanol	45	6.727	6.727	(1.355)	10783	5.00000	11.69
	180 1-Methylnaphthalene	142	12.668	12.668	(1.311)	1720	0.25000	(a)
	140 1,3-Butadiene	54	1.164	1.164	(0.279)	737	0.25000	0.27(a)
M	94 1,2-Dichloroethylene (total)	96				1068	0.50000	(a)
	134 Cyclohexanone	55	8.657	8.657	(0.896)	2390	5.00000	12.41(a)
	150 Allyl alcohol	57	2.772	2.772	(0.664)	792	5.00000	13.03

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031702.D
Date : 17-MAR-2023 11:29
Client ID: VSTD000.25
Sample Info: VSTD000.25;VSTD000.25;1;1;
Purge Volume: 5.0
Column phase: DB624

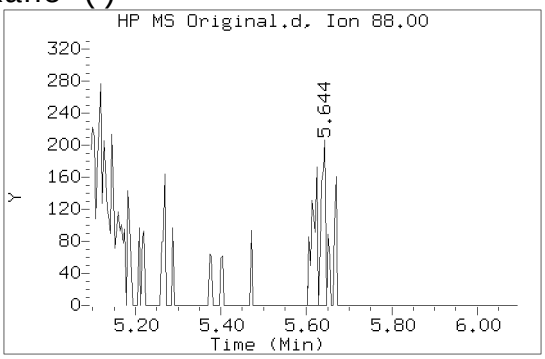
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031702.D
Inj Date : 17-MAR-2023 11:29
InstruID : voa6.i
LabSampID : VSTD000.25

1,4-Dioxane ()

Reason Code:

BEFORE
MASS
88
AREA
279
HEIGHT
207
21-Mar-2023
10:17
linh
pham



AFTER
MASS
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HEIGHT
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21-Mar-2023
10:17
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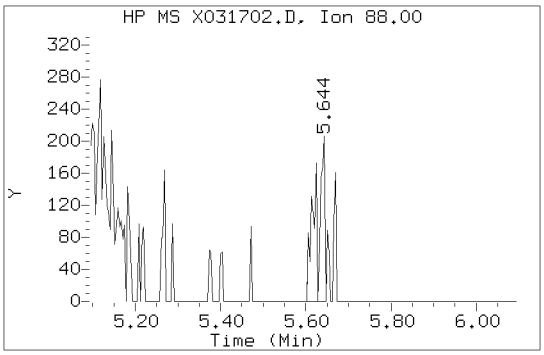

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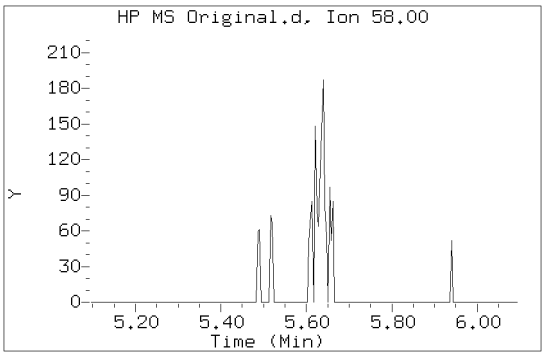

AFTER
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21-Mar-2023
10:17
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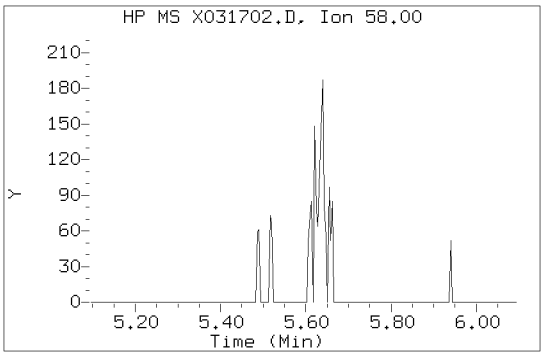


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D Page 1
Report Date: 21-Mar-2023 10:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Lab Smp Id: VSTD000.5 Client Smp ID: VSTD000.5
Inj Date : 17-MAR-2023 12:11
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.5;VSTD000.5;1;2;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 21-Mar-2023 10:18 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 11:29 Cal File: X031702.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.181	4.181	(1.000)	367798	50.0000	
2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	1644	0.50000	1.25(M)
3	Chloromethane	50	1.077	1.077	(0.258)	1945	0.50000	0.57(M)
4	Propionitrile	54	3.705	3.705	(0.886)	2634	5.00000	5.08(aM)
5	Vinyl Chloride	62	1.141	1.141	(0.273)	1572	0.50000	0.54(M)
6	Bromomethane	94	1.340	1.340	(0.321)	833	0.50000	0.50(M)
7	Chloroethane	64	1.400	1.400	(0.335)	1227	0.50000	0.59(TM)
8	Trichlorofluoromethane	101	1.561	1.561	(0.373)	1920	0.50000	0.55(M)
9	Acrolein	56	1.441	1.441	(0.345)	179	1.00000	3.94(aM)
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	1244	0.50000	0.56(M)
12	Isobutyl Alcohol	43	4.684	4.684	(1.120)	3536	10.0000	7.04(TaM)
13	Acetonitrile	39	2.202	2.202	(0.527)	1651	5.00000	4.82(a)
14	Allyl Chloride	41	2.209	2.209	(0.528)	4541	0.50000	0.53(a)
15	Iodomethane	142	2.033	2.033	(0.486)	1037	1.00000	9.64(TM)
18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	6887	0.50000	0.59
19	Carbon Disulfide	76	2.067	2.067	(0.494)	9182	1.00000	1.13(M)
20	trans-1,2-Dichloroethene	96	2.543	2.543	(0.608)	1766	0.50000	0.56
21	Vinyl Acetate	43	3.038	3.038	(0.727)	8761	1.00000	0.93(aM)
22	1,1-Dichloroethane	63	2.918	2.918	(0.698)	2973	0.50000	0.52(TM)
23	Chloroprene	53	1.767	1.767	(0.423)	581	0.50000	0.57(aM)

24 2-Butanone	43	3.671	3.671 (0.878)	1066	1.00000	0.80(aM)
25 Methacrylonitrile	41	3.863	3.863 (0.924)	1764	0.50000	0.52(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	27 cis-1,2-Dichloroethene	96	3.533	3.533	(0.845)	2082	0.50000	0.55(M)
	28 Chloroform	83	3.911	3.911	(0.935)	3918	0.50000	0.62
	29 Bromochloromethane	128	3.795	3.795	(0.908)	1278	0.50000	0.59
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	2607	0.50000	0.55(M)
	32 1,1-Dichloropropene	75	4.290	4.290	(0.864)	2227	0.50000	0.51(M)
	33 1,2-Dichloroethane	62	4.586	4.586	(0.924)	2984	0.50000	0.59
	34 Carbon Tetrachloride	117	4.267	4.267	(0.860)	2318	0.50000	0.56(M)
$	35 1,2-Dichloroethane-d4	65	4.489	4.489	(1.074)	2080	0.50000	1.56(TM)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	601883	50.0000	
	37 Benzene	78	4.522	4.522	(0.911)	8236	0.50000	0.55(M)
	38 Trichloroethene	130	5.212	5.212	(1.050)	2257	0.50000	0.56(aM)
	39 Bromodichloromethane	83	5.733	5.733	(1.155)	3021	0.50000	0.57(aM)
	40 Methyl Methacrylate	41	5.639	5.639	(1.349)	1737	0.50000	0.52(aM)
	41 2-Chloroethylvinyl ether	63	6.082	6.082	(1.225)	1463	1.00000	0.91(aM)
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	2264	0.50000	0.56(aM)
	43 2-Nitropropane	43	5.984	5.984	(1.431)	573	0.50000	0.49(aMH)
	44 Dibromomethane	93	5.565	5.565	(1.121)	1289	0.50000	0.50(a)
	45 4-Methyl-2-Pentanone	43	6.348	6.348	(0.828)	3685	1.00000	1.01(a)
	46 cis-1,3-Dichloropropene	75	6.164	6.164	(1.242)	3719	0.50000	0.56(a)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	574583	50.0000	
$	48 Toluene-d8	98	6.400	6.400	(0.835)	7591	0.50000	0.53(aM)
	49 Ethyl Methacrylate	69	6.742	6.742	(1.358)	2259	0.50000	0.50(aM)
	50 Toluene	91	6.460	6.460	(0.843)	7835	0.50000	0.51(aM)
	51 trans-1,3-Dichloropropene	75	6.700	6.700	(1.350)	2740	0.50000	0.49(aM)
	52 2-Hexanone	43	7.124	7.124	(0.929)	2519	1.00000	1.00(TaM)
	53 1,1,2-Trichloroethane	83	6.850	6.850	(0.893)	1853	0.50000	0.56(a)
	54 1,3-Dichloropropane	76	6.989	6.989	(0.912)	3374	0.50000	0.51(aM)
	55 Dibromochloromethane	129	7.184	7.184	(0.937)	2629	0.50000	0.56(a)
	56 Tetrachloroethene	164	6.937	6.937	(0.905)	1777	0.50000	0.58(aM)
	57 1,2-Dibromoethane	107	7.270	7.270	(0.948)	2073	0.50000	0.51(a)
	58 1-Chlorohexane	55	7.705	7.705	(1.552)	1701	0.50000	2.80(aM)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	5868	0.50000	0.54(aM)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	2474	0.50000	0.59(a)
	61 Ethylbenzene	106	7.802	7.802	(1.018)	3139	0.50000	0.59(a)
	62 m,p-Xylenes	106	7.911	7.911	(1.032)	7504	1.00000	1.12(a)
	63 o-Xylene	106	8.252	8.252	(1.076)	3921	0.50000	0.58(a)
	64 Styrene	104	8.294	8.294	(1.082)	5629	0.50000	0.50(aM)
	66 Bromoform	173	8.417	8.417	(1.098)	1781	0.50000	0.55(aM)
	67 Isopropylbenzene	105	8.567	8.567	(1.117)	8191	0.50000	0.53(aM)
	68 1,1,2,2-Tetrachloroethane	83	8.848	8.848	(0.916)	3141	0.50000	0.57(aM)
$	69 4-Bromofluorobenzene	95	8.706	8.706	(1.135)	3243	0.50000	0.41(aM)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	314997	50.0000	
	71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	2211	0.50000	0.53(aM)
	72 trans-1,4-Dichloro-2-butene	53	8.931	8.931	(1.165)	541	0.50000	0.94(aM)
	73 n-Propylbenzene	91	8.923	8.923	(0.924)	9679	0.50000	0.55(a)
	74 Bromobenzene	156	8.822	8.822	(0.913)	2604	0.50000	0.51(aM)
	75 1,3,5-Trimethylbenzene	105	9.077	9.077	(0.939)	7357	0.50000	0.54(aM)
	76 2-Chlorotoluene	91	8.983	8.983	(0.930)	5959	0.50000	0.50(aM)
	77 4-Chlorotoluene	91	9.092	9.092	(0.941)	6930	0.50000	0.52(aM)
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	5974	0.50000	0.55(aM)
	79 1,2,4-Trimethylbenzene	105	9.388	9.388	(0.972)	8022	0.50000	0.57(a)
	81 sec-Butylbenzene	105	9.523	9.523	(0.986)	8361	0.50000	0.57(aM)

82 p-Isopropyltoluene	119	9.654	9.654 (0.999)	6920	0.50000	0.52(aM)
83 1,3-Dichlorobenzene	146	9.613	9.613 (0.995)	4872	0.50000	0.55(a)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D Page 3
Report Date: 21-Mar-2023 10:19

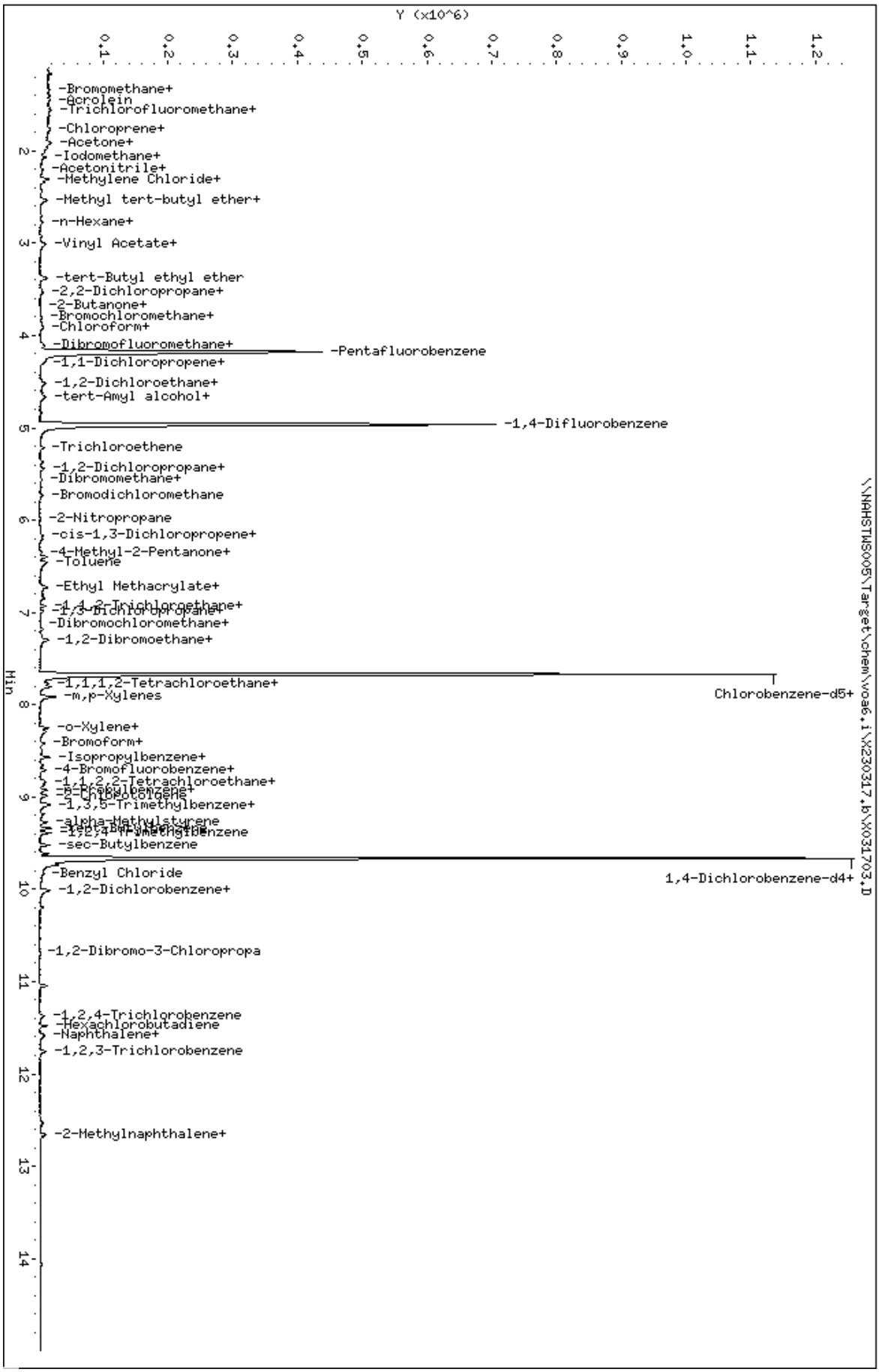
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	5378	0.50000	0.57(aM)
86	Benzyl Chloride	91	9.827	9.827	(1.282)	4324	0.50000	2.00(aM)
87	n-Butylbenzene	91	10.025	10.025	(1.038)	5143	0.50000	0.48(aM)
88	1,2-Dichlorobenzene	146	10.014	10.014	(1.036)	4957	0.50000	0.56(a)
89	1,2-Dibromo-3-Chloropropane	155	10.681	10.681	(1.106)	405	0.50000	1.86(aM)
90	1,2,4-Trichlorobenzene	180	11.367	11.367	(1.177)	3409	0.50000	0.53(a)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	1367	0.50000	2.35(aM)
92	Naphthalene	128	11.581	11.581	(1.199)	7876	0.50000	0.51(a)
93	1,2,3-Trichlorobenzene	180	11.761	11.761	(1.217)	3277	0.50000	0.53(aM)
146	Methyl acetate	43	2.258	2.258	(0.540)	1057	0.50000	0.49(aM)
138	Freon TF	101	1.917	1.917	(0.459)	1102	0.50000	1.75(aM)
141	Cyclohexane	56	4.125	4.125	(0.987)	2139	0.50000	2.30(aM)
142	Tetrahydrofuran	42	3.874	3.874	(0.926)	614	1.00000	1.02(aM)
147	Methylcyclohexane	55	5.370	5.370	(1.082)	4159	0.50000	0.50(aM)
135	1,4-Dioxane	88	5.628	5.628	(1.346)	500	10.0000	10.24(aM)
132	n-Butanol	56	5.373	5.373	(1.285)	783	10.0000	39.67(TaM)
131	Methyl Acrylate	55	3.780	3.780	(0.904)	1927	0.50000	0.50(aM)
133	Ethyl Acrylate	55	5.370	5.370	(1.284)	3644	0.50000	0.45(aM)
136	n-Hexane	57	2.776	2.776	(0.664)	1555	0.50000	1.07(TaM)
139	Diethyl ether	59	1.767	1.767	(0.423)	1334	0.50000	0.54(TaM)
148	Tert-butyl alcohol	59	2.442	2.442	(0.584)	4322	10.0000	11.22
149	Isopropyl alcohol	45	2.105	2.105	(0.503)	1979	10.0000	9.61(TM)
156	Diisopropyl ether	45	3.000	3.000	(0.718)	5833	0.50000	0.51(TaM)
160	2-Methylnaphthalene	142	12.664	12.664	(1.311)	4839	0.50000	0.63(a)
166	1,2,3-Trimethylbenzene	105	9.740	9.740	(1.008)	8417	0.50000	0.55(a)
167	Ethanol	45	1.707	1.707	(0.408)	398	10.0000	12.06(M)
172	tert-Butyl formate	59	4.627	4.627	(1.107)	2676	1.00000	0.89(aM)
173	3,3-Dimethyl-1-butanol	57	7.300	7.300	(0.952)	4857	10.0000	10.96(M)
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	7050	0.50000	0.53(aM)
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.808)	6191	0.50000	0.51(aM)
176	tert-Amyl alcohol	59	4.627	4.627	(1.107)	3255	10.0000	10.34
151	4-Methyl-2-pentanol	45	6.727	6.727	(1.355)	8689	10.0000	9.89(M)
180	1-Methylnaphthalene	142	12.664	12.664	(1.311)	4839	0.50000	(a)
140	1,3-Butadiene	54	1.164	1.164	(0.278)	1361	0.50000	0.54(aM)
152	Amyl alcohol	42	6.985	6.985	(0.911)	1078	10.0000	10.40(M)
158	Dichlorofluoromethane	67	1.531	1.531	(0.366)	2337	0.50000	0.51(M)
159	Propylene oxide	43	1.808	1.808	(0.433)	209	1.00000	0.91(aM)
162	Butyl acrylate	55	8.297	8.297	(1.082)	4463	0.50000	0.52(aM)
182	Epichlorohydrin	57	6.127	6.127	(1.234)	641	2.00000	1.86(aM)
M 94	1,2-Dichloroethylene (total)	96				3848	1.00000	(a)
130	Ethyl Acetate	43	3.679	3.679	(0.880)	1988	0.50000	0.52(aM)
134	Cyclohexanone	55	8.653	8.653	(0.896)	2126	10.0000	11.36(aM)
185	Isoprene	39	1.748	1.748	(0.418)	361	0.50000	0.51(aM)
188	Isopropyl acetate	43	4.684	4.684	(0.943)	5705	0.50000	0.52(a)
187	n-Amyl acetate	43	8.500	8.500	(1.109)	3393	0.50000	0.47(aM)
189	n-Butyl acetate	43	7.244	7.244	(0.945)	3030	0.50000	0.49(aM)
150	Allyl alcohol	57	2.776	2.776	(0.664)	1223	10.0000	17.64(M)
195	Methyl Amyl Ketone	43	8.417	8.417	(1.098)	4445	0.50000	0.48(aM)
200	Dimethyl Disulfide	94	6.202	6.202	(0.809)	3700	0.50000	0.49(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Date : 17-MAR-2023 12:11
Client ID: VSTD000.5
Sample Info: VSTD000.5;VSTD000.5;1;2;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

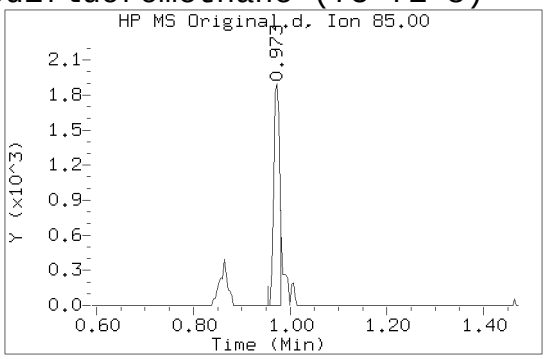
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Dichlorodifluoromethane (75-71-8)

Reason Code:

BEFORE

MASS
85
AREA
1644
HEIGHT
1897
21-Mar-2023
10:17
linh
pham



AFTER

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AREA
1644
HEIGHT
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21-Mar-2023
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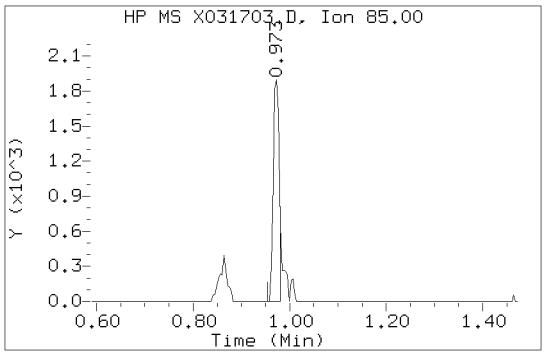

BEFORE

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586
HEIGHT
590
21-Mar-2023
10:17
linh
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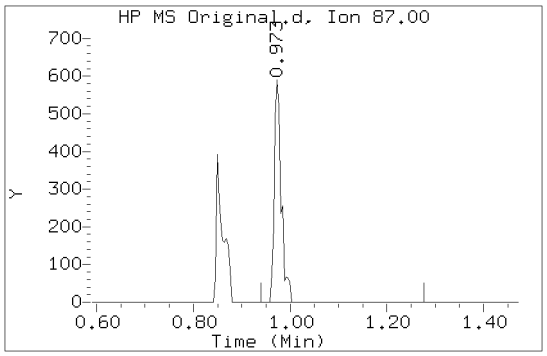

AFTER

MASS
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AREA
586
HEIGHT
590
21-Mar-2023
10:17
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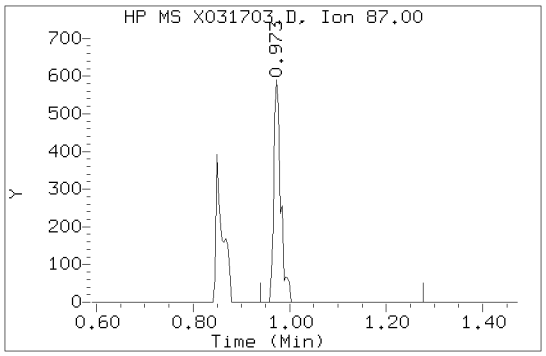
pham



Chloromethane (74-87-3)

Reason Code:

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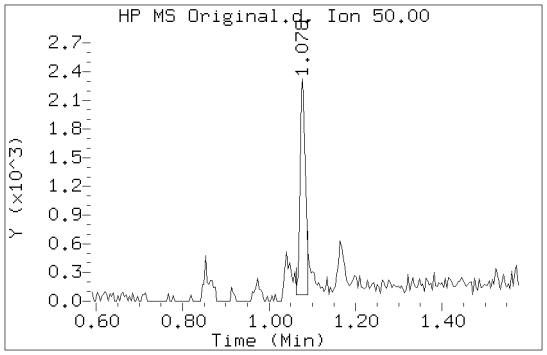

AFTER

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HEIGHT
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21-Mar-2023
10:17
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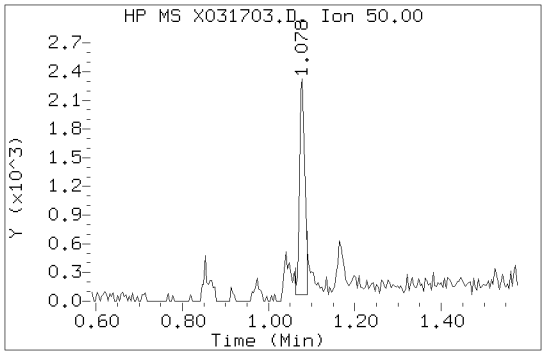

BEFORE

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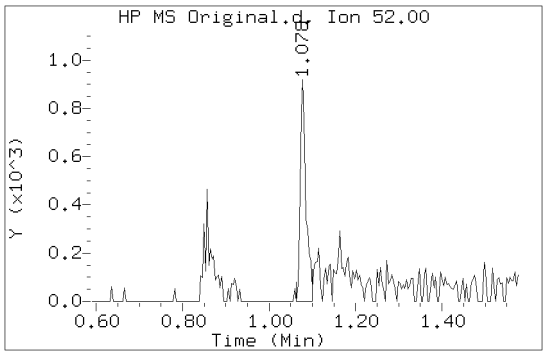
852
HEIGHT
919
21-Mar-2023
10:17
linh
pham



AFTER

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AREA
852
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919
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10:17
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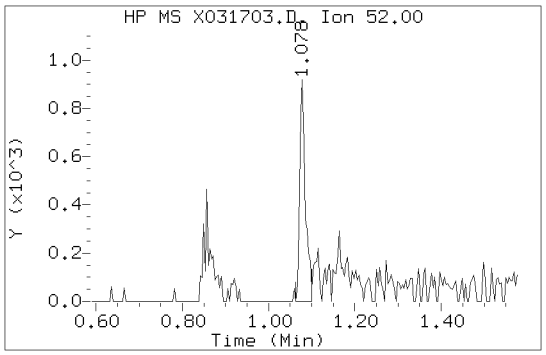

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Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Vinyl Chloride (75-01-4)

BEFORE

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HEIGHT
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21-Mar-2023
10:17
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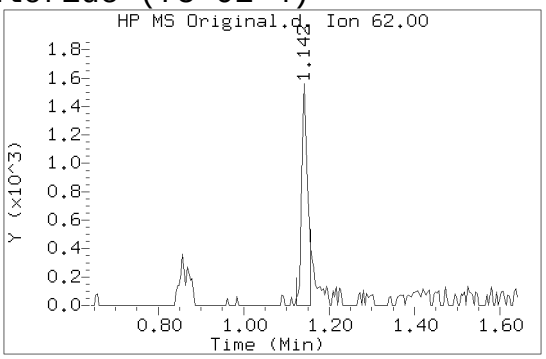

BEFORE

MASS
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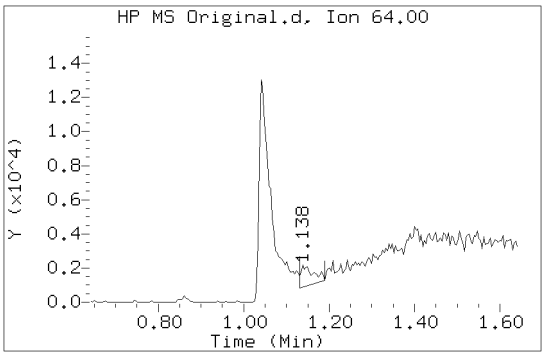
AREA
2509
HEIGHT
1287
21-Mar-2023
10:17
linh
pham



Reason Code:

AFTER

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62
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HEIGHT
1561
21-Mar-2023
10:17
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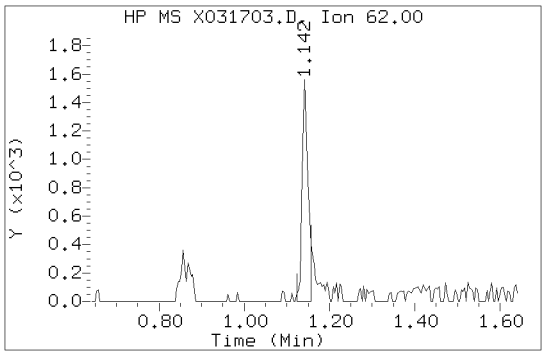

AFTER

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HEIGHT
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21-Mar-2023
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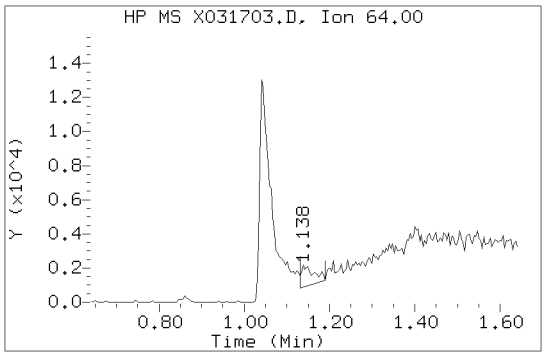

Bromomethane (74-83-9)

BEFORE

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AREA
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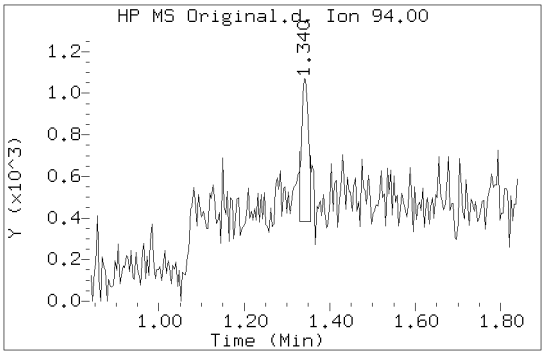
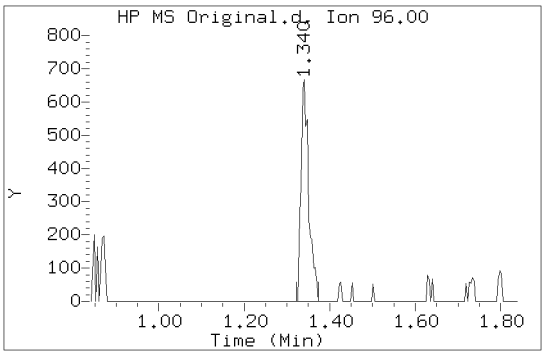
HEIGHT
685
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
96
AREA
869
HEIGHT
667
21-Mar-2023
10:17
linh
pham



Reason Code:

AFTER

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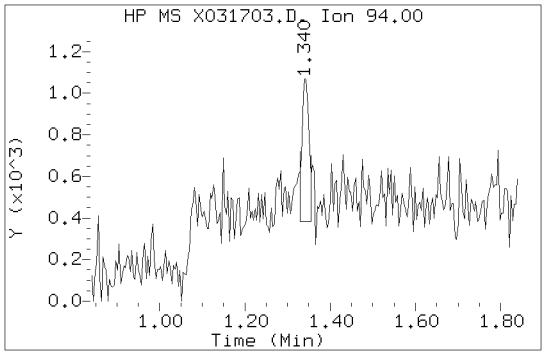
AREA
833
HEIGHT
685
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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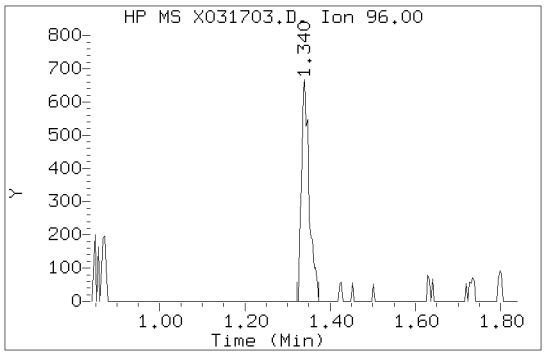
AREA
869
HEIGHT
667
21-Mar-2023
10:17
linh
pham



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Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Chloroethane (75-00-3)

Reason Code:

BEFORE
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AREA
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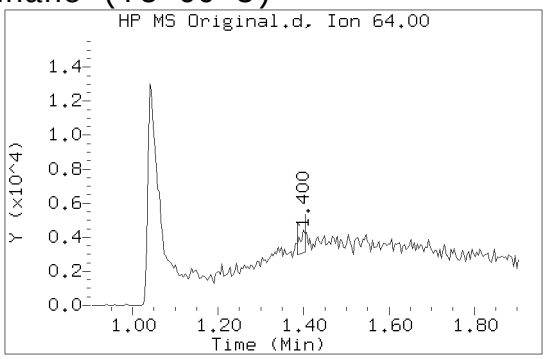
HEIGHT
1330
21-Mar-2023
10:17
linh
pham



AFTER
MASS
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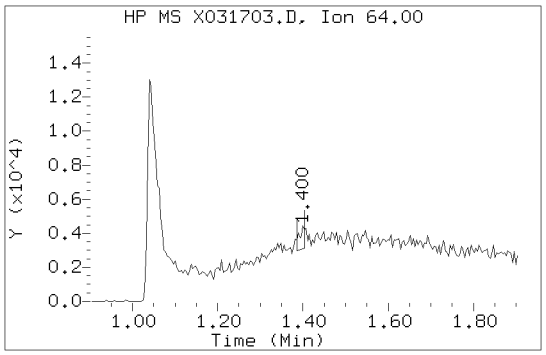
AREA
1227
HEIGHT
1330
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
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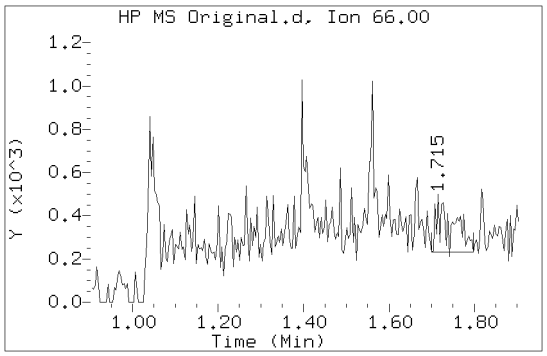
AREA
666
HEIGHT
269
21-Mar-2023
10:17
linh
pham



AFTER
MASS
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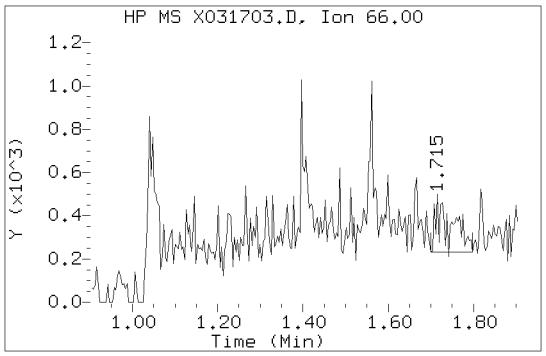
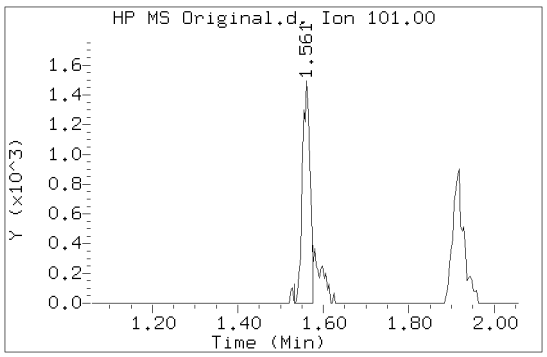
AREA
666
HEIGHT
269
21-Mar-2023
10:17
linh
pham



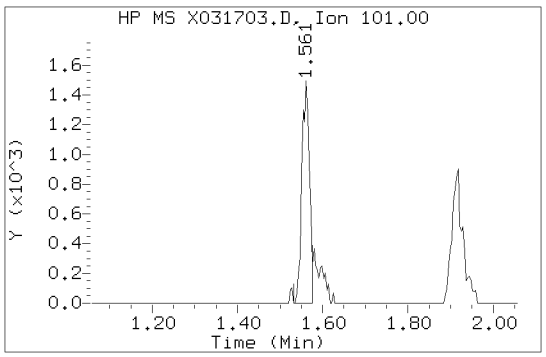
Trichlorofluoromethane (75-69-4)

Reason Code:

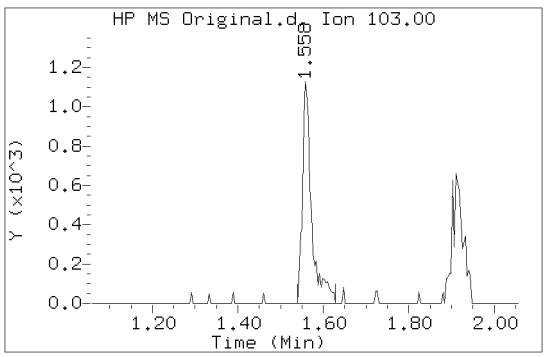
BEFORE
MASS
101
AREA
1920
HEIGHT
1494
21-Mar-2023
10:17
linh
pham



AFTER
MASS
101
AREA
1920
HEIGHT
1494
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
103
AREA
1729
HEIGHT
1128
21-Mar-2023
10:17
linh
pham



AFTER
MASS
103
AREA
1729
HEIGHT
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21-Mar-2023
10:17
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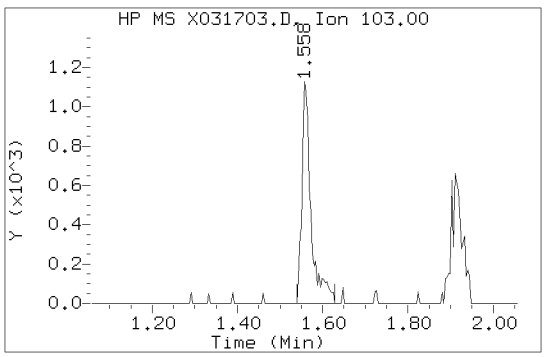
pham



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Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Acetone (67-64-1)

Reason Code:

BEFORE

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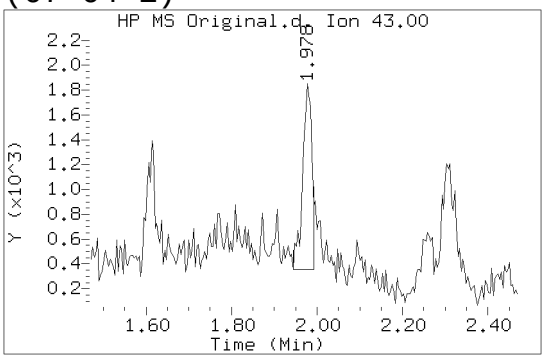
AREA
2266
HEIGHT
1495
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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HEIGHT
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21-Mar-2023
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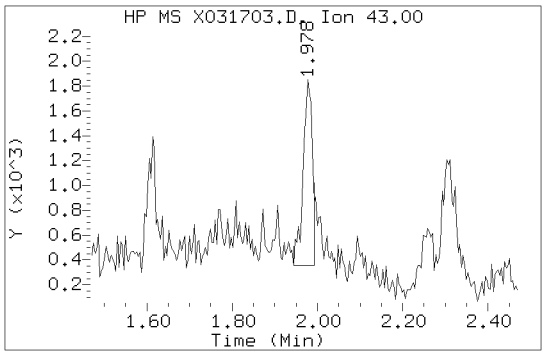
pham



BEFORE

MASS
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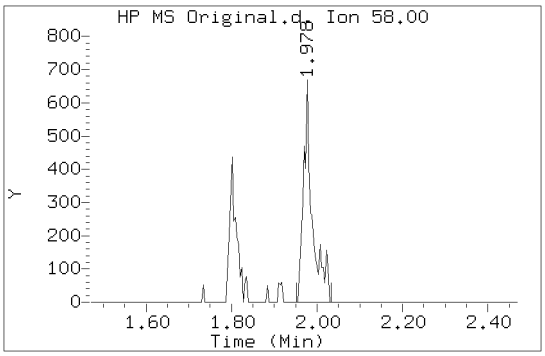
AREA
967
HEIGHT
669
21-Mar-2023
10:17
linh
pham



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21-Mar-2023
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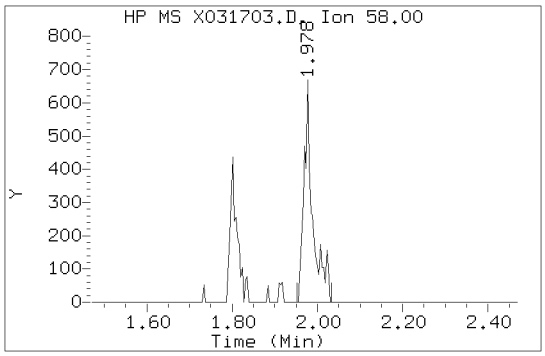

1,1-Dichloroethene (75-35-4)

Reason Code:

BEFORE

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AREA
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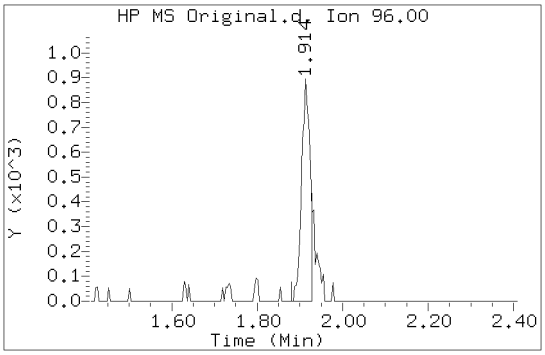
HEIGHT
895
21-Mar-2023
10:17
linh
pham



AFTER

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AREA
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HEIGHT
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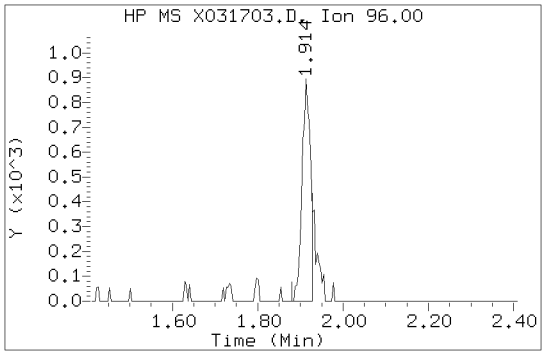
21-Mar-2023
10:17
linh
pham



BEFORE

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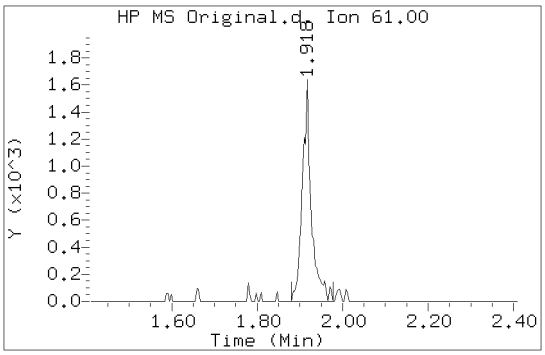
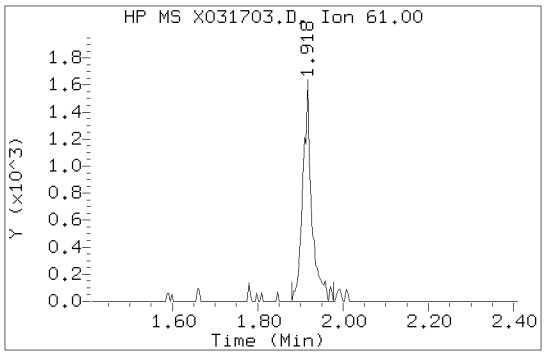
1639
21-Mar-2023
10:17
linh
pham



AFTER

MASS
61
AREA
2400
HEIGHT
1639
21-Mar-2023
10:17
linh
pham



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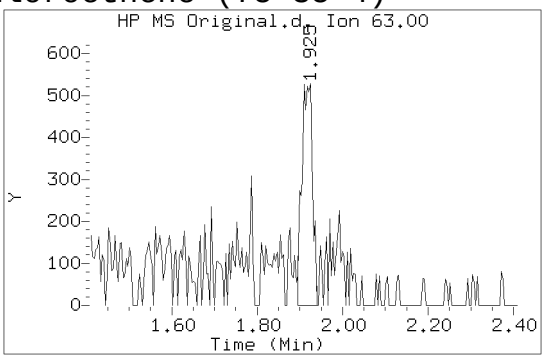
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,1-Dichloroethene (75-35-4)

BEFORE

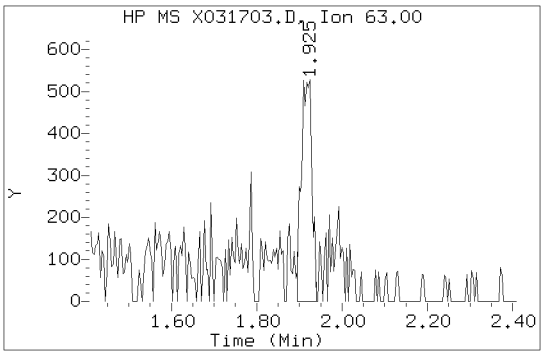
MASS
63
AREA
934
HEIGHT
528
21-Mar-2023
10:17
linh
pham



Reason Code:

AFTER

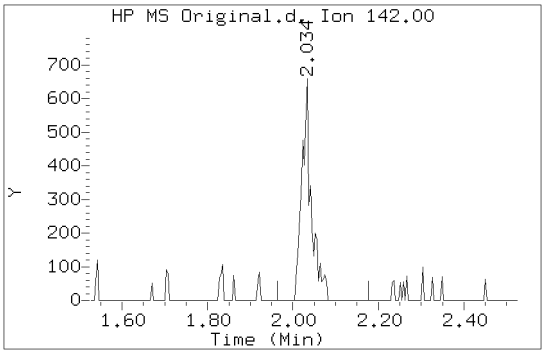
MASS
63
AREA
934
HEIGHT
528
21-Mar-2023
10:17
linh
pham



Iodomethane (74-88-4)

BEFORE

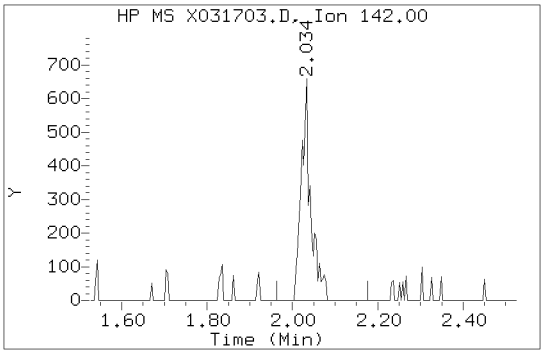
MASS
142
AREA
1037
HEIGHT
659
21-Mar-2023
10:17
linh
pham



Reason Code:

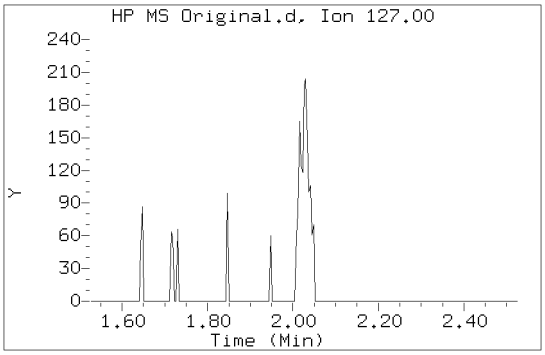
AFTER

MASS
142
AREA
1037
HEIGHT
659
21-Mar-2023
10:17
linh
pham



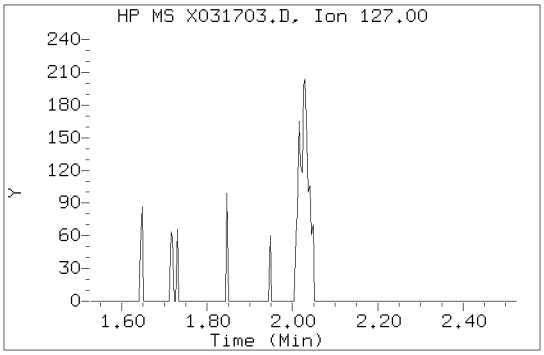
BEFORE

MASS
127
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



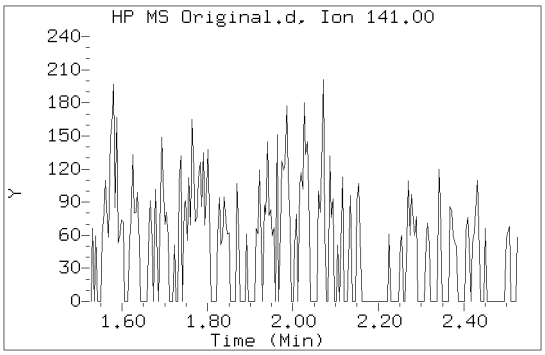
AFTER

MASS
127
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



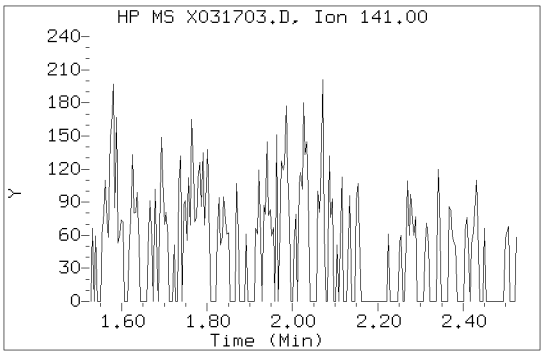
BEFORE

MASS
141
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
141
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



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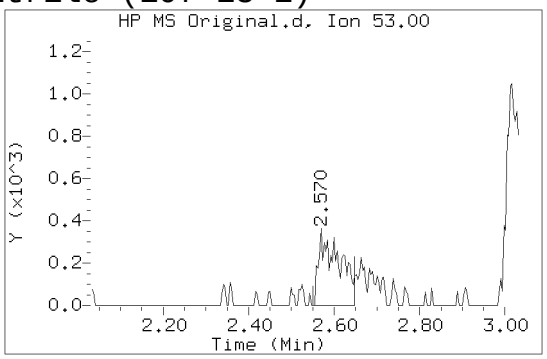
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

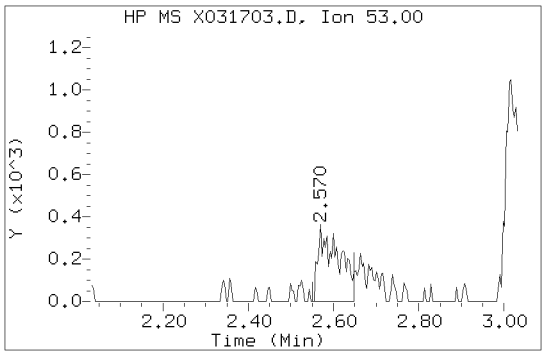
Acrylonitrile (107-13-1)

Reason Code:

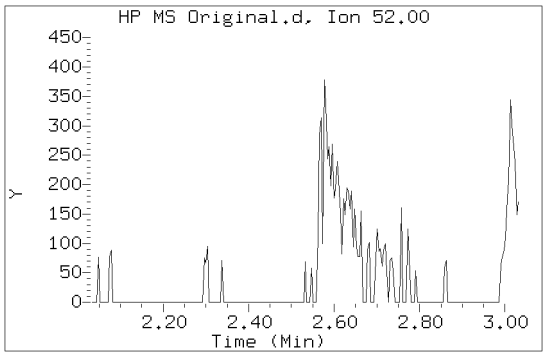
BEFORE
MASS
53
AREA
1196
HEIGHT
364
21-Mar-2023
10:17
linh
pham



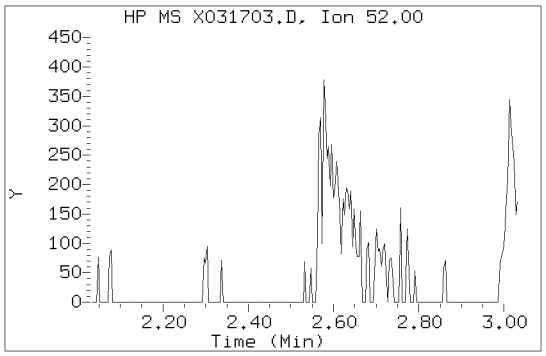
AFTER
MASS
53
AREA
1196
HEIGHT
364
21-Mar-2023
10:17
linh
pham



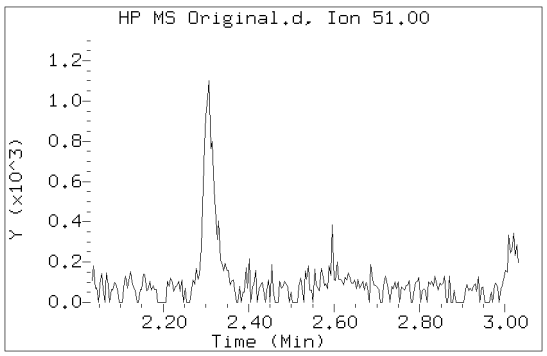
BEFORE
MASS
52
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



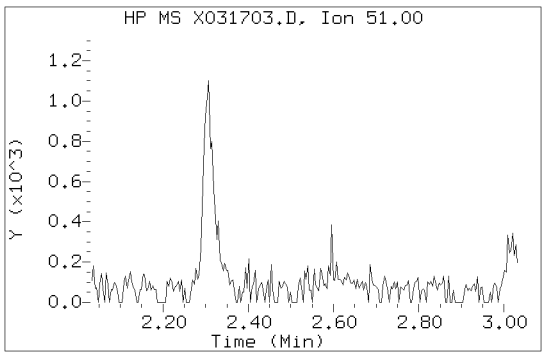
AFTER
MASS
52
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
51
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



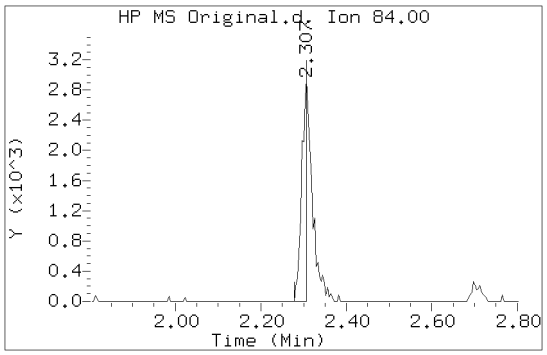
AFTER
MASS
51
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



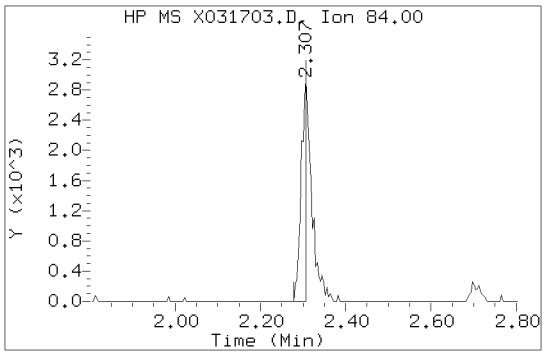
Methylene Chloride (75-09-2)

Reason Code:

BEFORE
MASS
84
AREA
2729
HEIGHT
2937
21-Mar-2023
10:17
linh
pham



AFTER
MASS
84
AREA
2729
HEIGHT
2937
21-Mar-2023
10:17
linh
pham



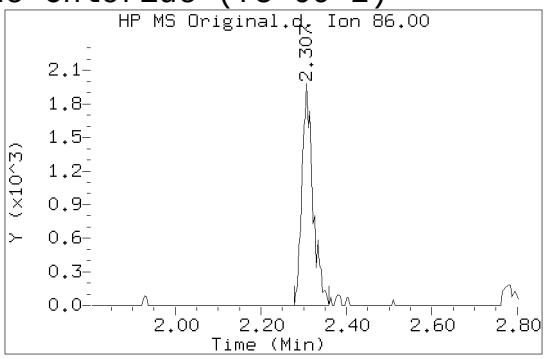
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Methylene Chloride (75-09-2)

Reason Code:

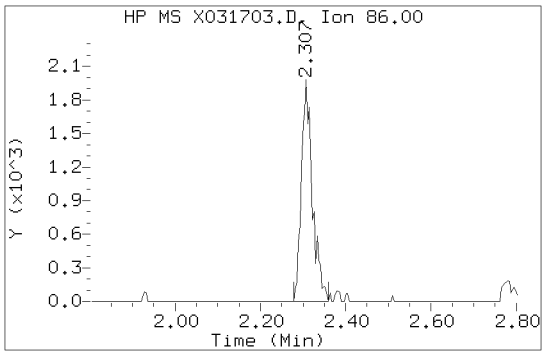
BEFORE

MASS
86
AREA
3603
HEIGHT
1981
21-Mar-2023
10:17
linh
pham



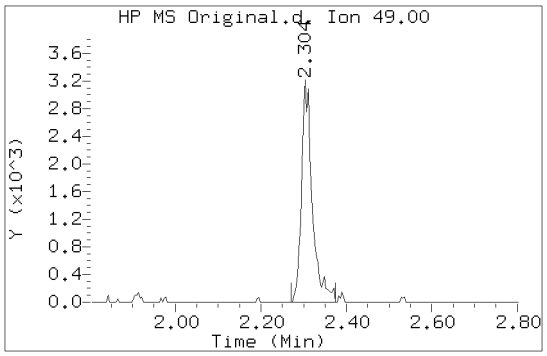
AFTER

MASS
86
AREA
3603
HEIGHT
1981
21-Mar-2023
10:17
linh
pham



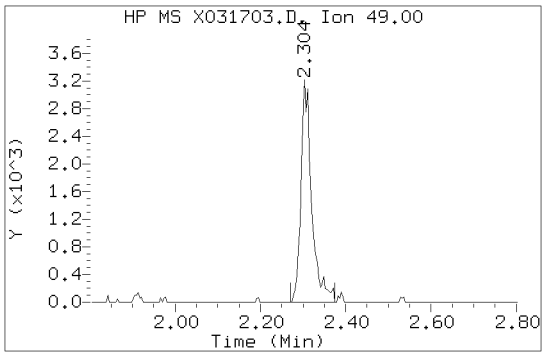
BEFORE

MASS
49
AREA
5772
HEIGHT
3215
21-Mar-2023
10:17
linh
pham



AFTER

MASS
49
AREA
5772
HEIGHT
3215
21-Mar-2023
10:17
linh
pham

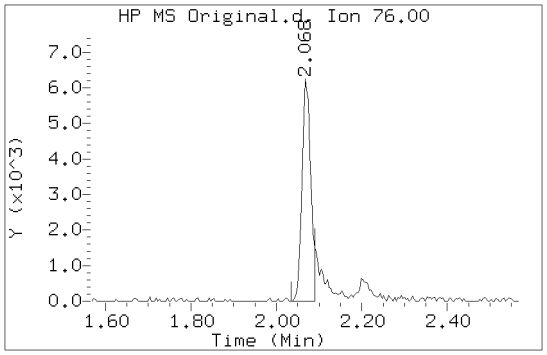


Carbon Disulfide (75-15-0)

Reason Code:

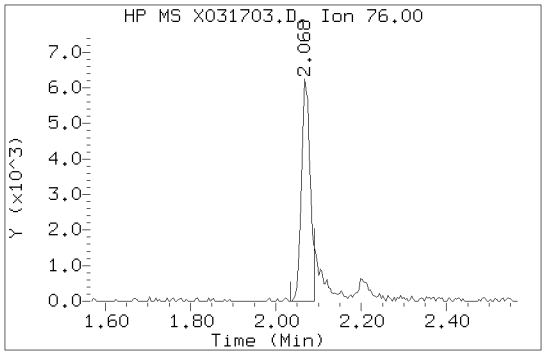
BEFORE

MASS
76
AREA
9182
HEIGHT
6252
21-Mar-2023
10:17
linh
pham



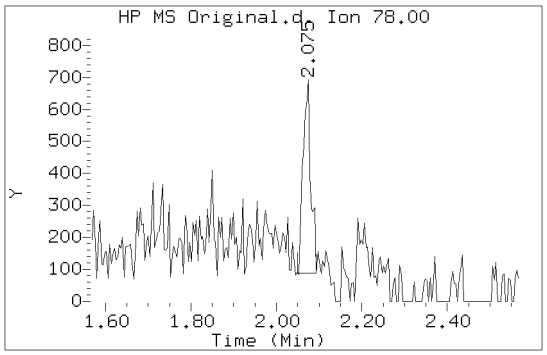
AFTER

MASS
76
AREA
9182
HEIGHT
6252
21-Mar-2023
10:17
linh
pham



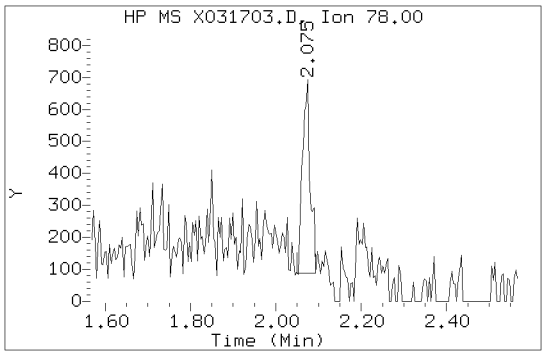
BEFORE

MASS
78
AREA
773
HEIGHT
605
21-Mar-2023
10:17
linh
pham



AFTER

MASS
78
AREA
773
HEIGHT
605
21-Mar-2023
10:17
linh
pham



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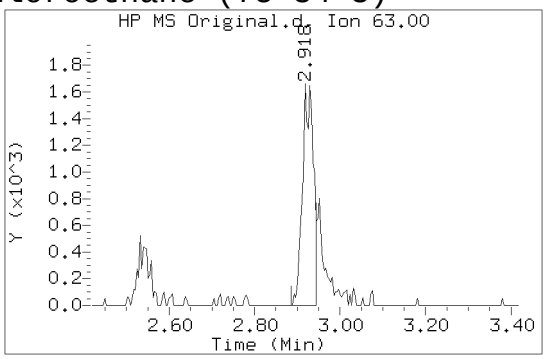
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

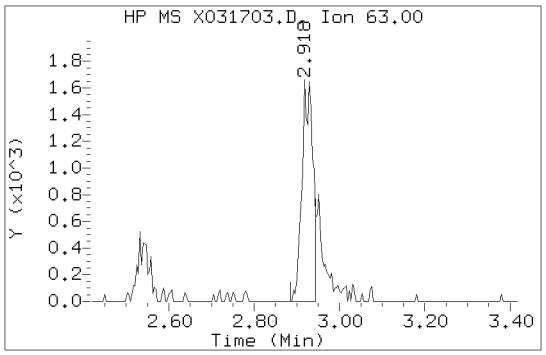
1,1-Dichloroethane (75-34-3)

Reason Code:

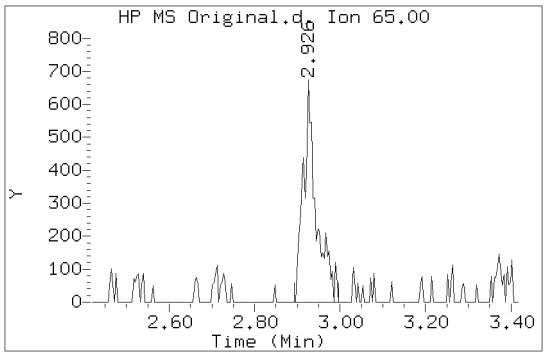
BEFORE
MASS
63
AREA
2973
HEIGHT
1662
21-Mar-2023
10:17
linh
pham



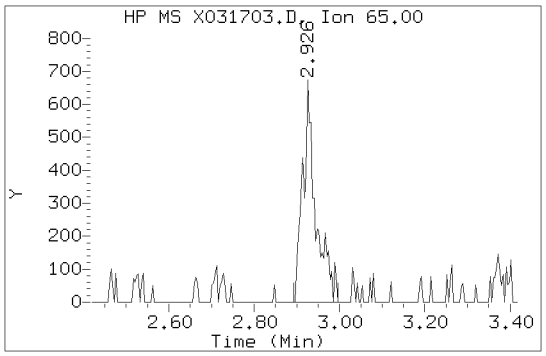
AFTER
MASS
63
AREA
2973
HEIGHT
1662
21-Mar-2023
10:17
linh
pham



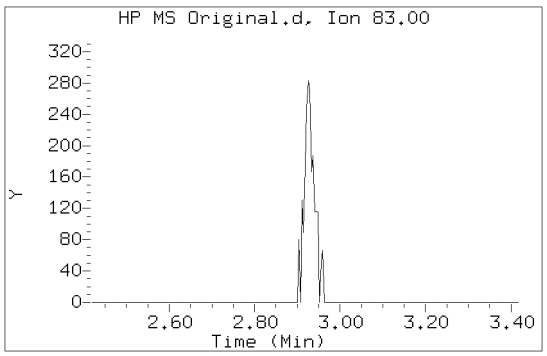
BEFORE
MASS
65
AREA
1438
HEIGHT
674
21-Mar-2023
10:17
linh
pham



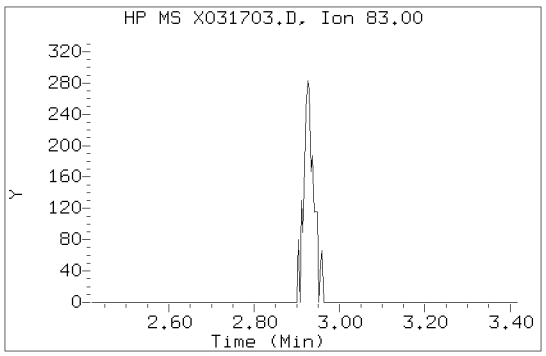
AFTER
MASS
65
AREA
1438
HEIGHT
674
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
83
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



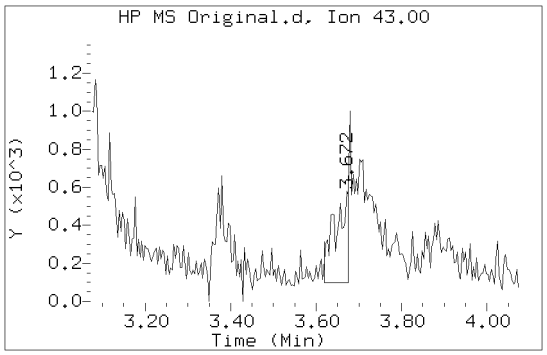
AFTER
MASS
83
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



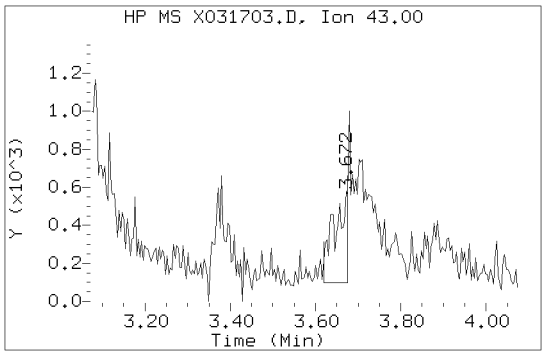
2-Butanone (78-93-3)

Reason Code:

BEFORE
MASS
43
AREA
1066
HEIGHT
481
21-Mar-2023
10:17
linh
pham



AFTER
MASS
43
AREA
1066
HEIGHT
481
21-Mar-2023
10:17
linh
pham



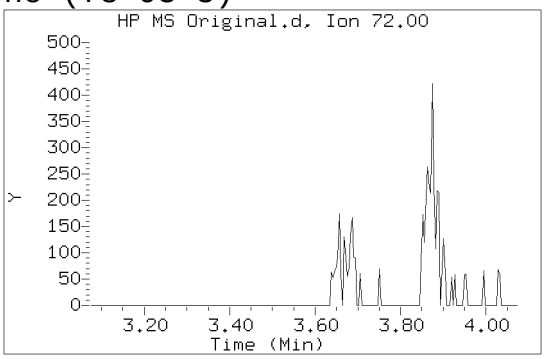
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

2-Butanone (78-93-3)

Reason Code:

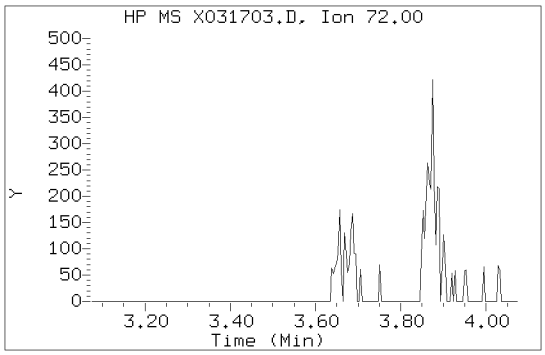
BEFORE

MASS
72
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
72
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

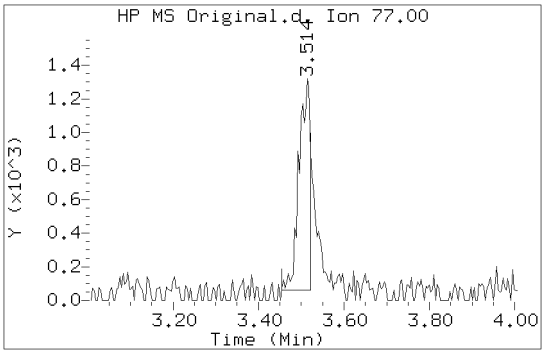


2,2-Dichloropropane (594-20-7)

Reason Code:

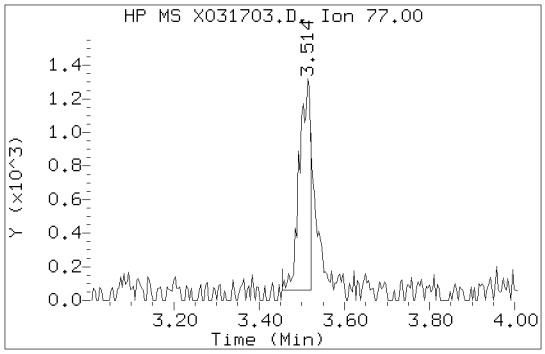
BEFORE

MASS
77
AREA
2270
HEIGHT
1258
21-Mar-2023
10:17
linh
pham



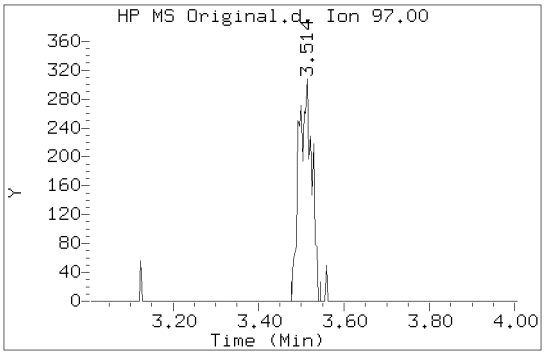
AFTER

MASS
77
AREA
2270
HEIGHT
1258
21-Mar-2023
10:17
linh
pham



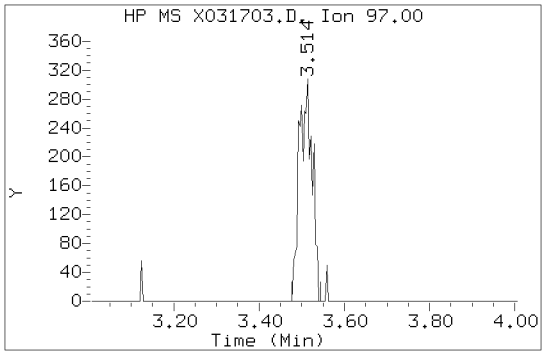
BEFORE

MASS
97
AREA
659
HEIGHT
308
21-Mar-2023
10:17
linh
pham



AFTER

MASS
97
AREA
659
HEIGHT
308
21-Mar-2023
10:17
linh
pham

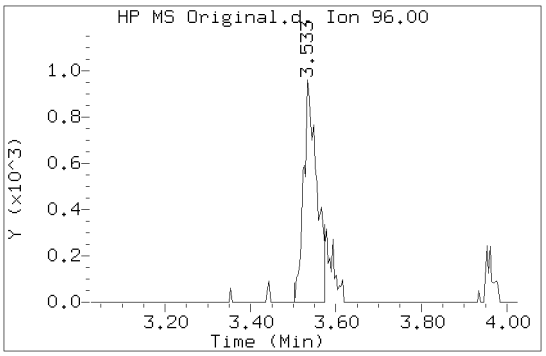


cis-1,2-Dichloroethene (156-59-2)

Reason Code:

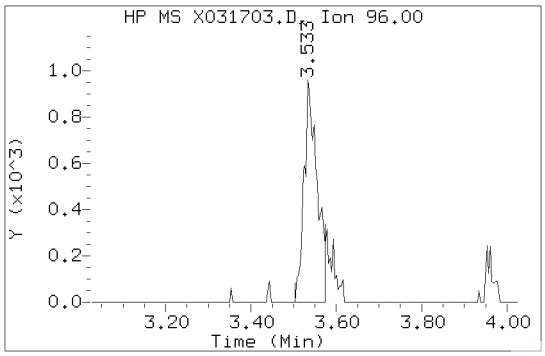
BEFORE

MASS
96
AREA
2082
HEIGHT
961
21-Mar-2023
10:17
linh
pham



AFTER

MASS
96
AREA
2082
HEIGHT
961
21-Mar-2023
10:17
linh
pham



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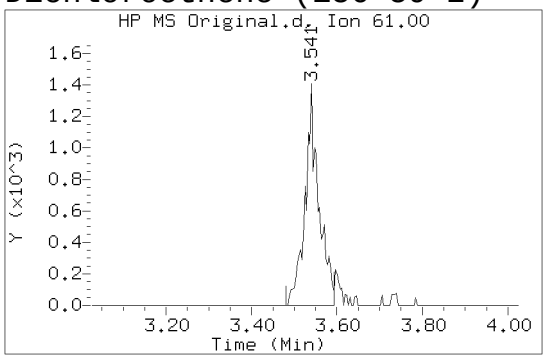
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

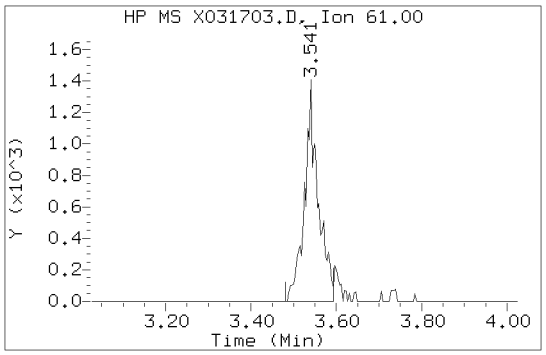
cis-1,2-Dichloroethene (156-59-2)

Reason Code:

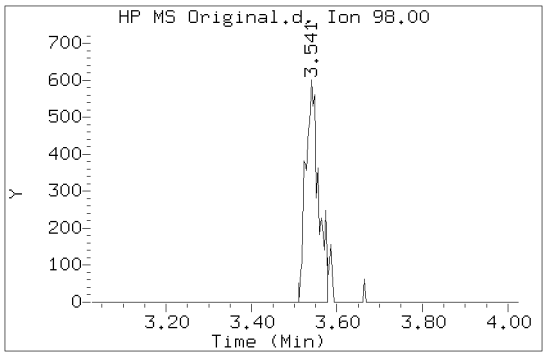
BEFORE
MASS
61
AREA
3124
HEIGHT
1408
21-Mar-2023
10:17
linh
pham



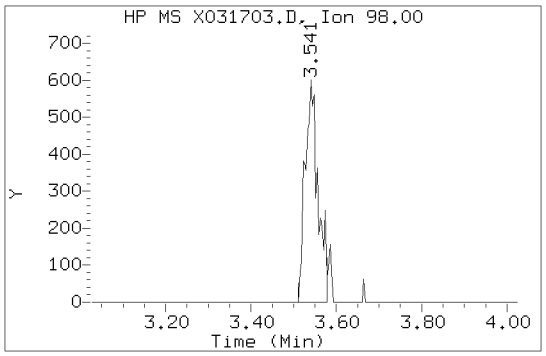
AFTER
MASS
61
AREA
3124
HEIGHT
1408
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
98
AREA
1273
HEIGHT
601
21-Mar-2023
10:17
linh
pham



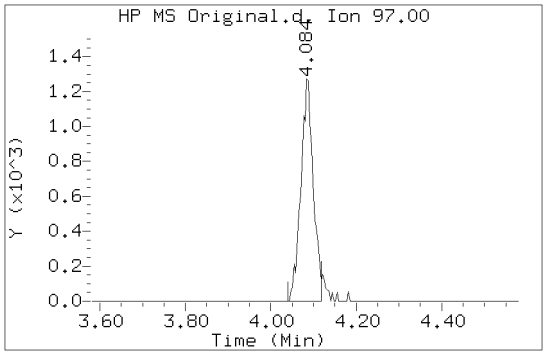
AFTER
MASS
98
AREA
1273
HEIGHT
601
21-Mar-2023
10:17
linh
pham



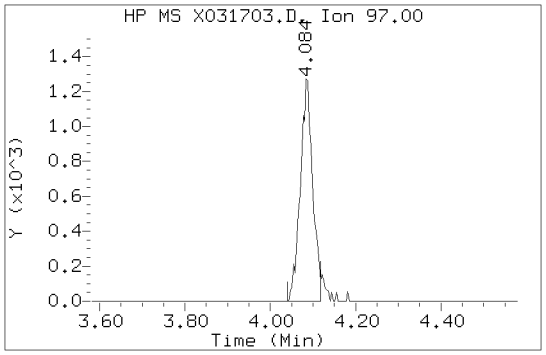
1,1,1-Trichloroethane (71-55-6)

Reason Code:

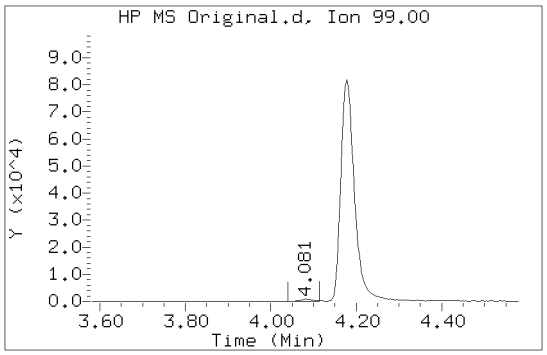
BEFORE
MASS
97
AREA
2607
HEIGHT
1272
21-Mar-2023
10:17
linh
pham



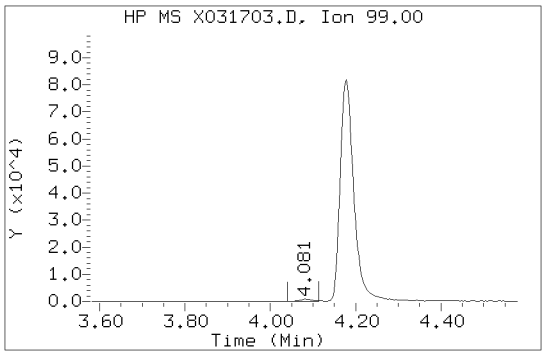
AFTER
MASS
97
AREA
2607
HEIGHT
1272
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
99
AREA
1800
HEIGHT
872
21-Mar-2023
10:17
linh
pham



AFTER
MASS
99
AREA
1800
HEIGHT
872
21-Mar-2023
10:17
linh
pham



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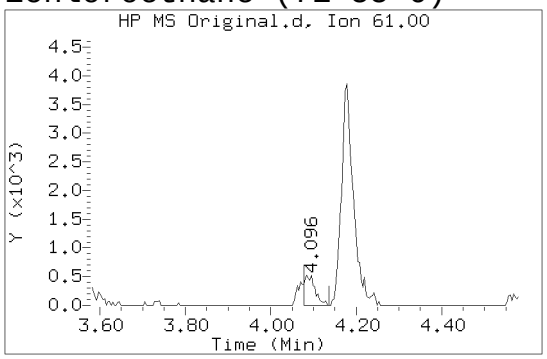
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,1,1-Trichloroethane (71-55-6)

Reason Code:

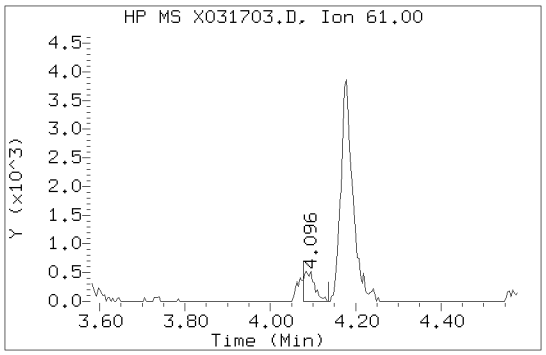
BEFORE

MASS
61
AREA
940
HEIGHT
530
21-Mar-2023
10:17
linh
pham



AFTER

MASS
61
AREA
940
HEIGHT
530
21-Mar-2023
10:17
linh
pham

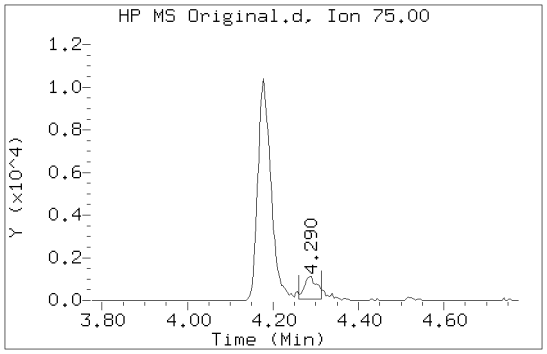


1,1-Dichloropropene (563-58-6)

Reason Code:

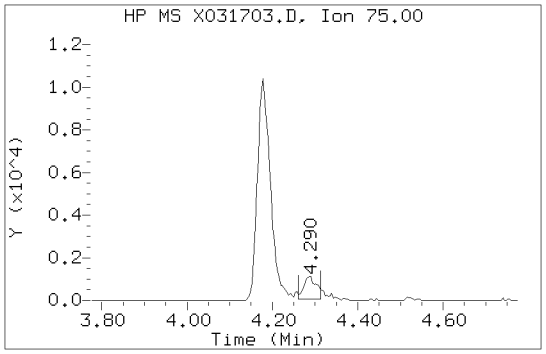
BEFORE

MASS
75
AREA
2227
HEIGHT
1062
21-Mar-2023
10:17
linh
pham



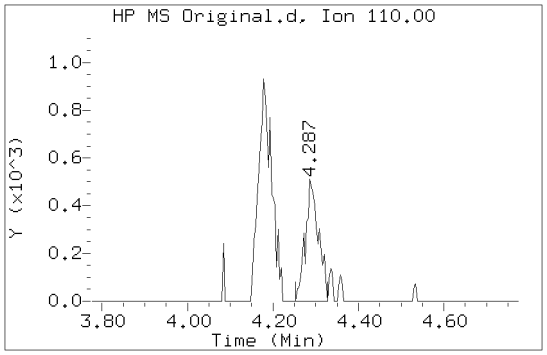
AFTER

MASS
75
AREA
2227
HEIGHT
1062
21-Mar-2023
10:17
linh
pham



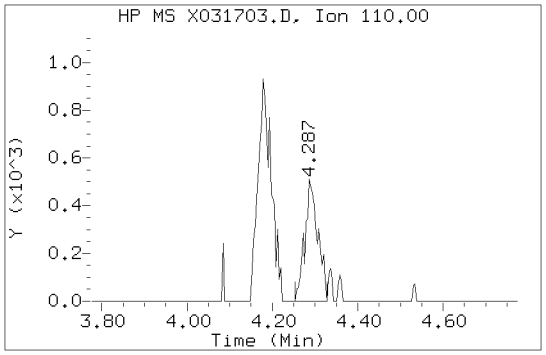
BEFORE

MASS
110
AREA
1088
HEIGHT
511
21-Mar-2023
10:17
linh
pham



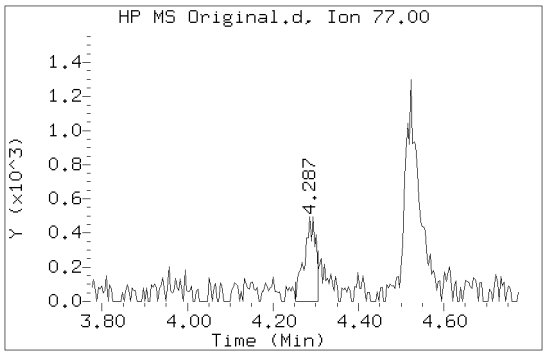
AFTER

MASS
110
AREA
1088
HEIGHT
511
21-Mar-2023
10:17
linh
pham



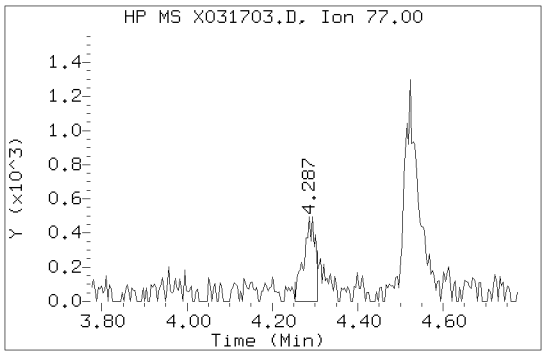
BEFORE

MASS
77
AREA
921
HEIGHT
494
21-Mar-2023
10:17
linh
pham



AFTER

MASS
77
AREA
921
HEIGHT
494
21-Mar-2023
10:17
linh
pham



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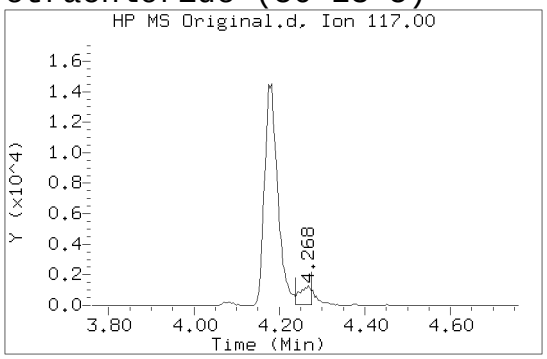
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

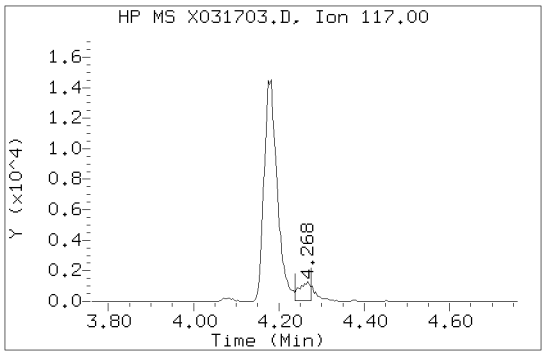
Carbon Tetrachloride (56-23-5)

BEFORE
MASS
117
AREA
2318
HEIGHT
1241
21-Mar-2023
10:17
linh
pham

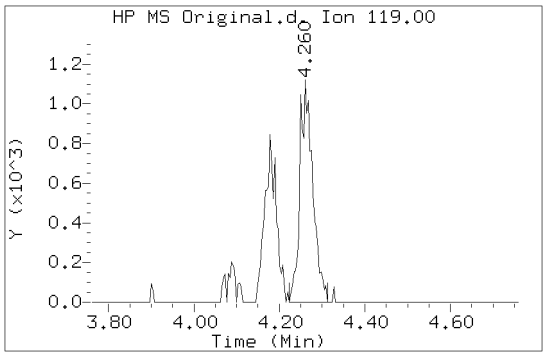


Reason Code:

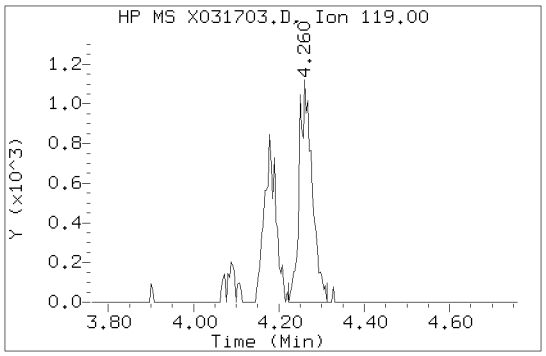
AFTER
MASS
117
AREA
2318
HEIGHT
1241
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
119
AREA
2377
HEIGHT
1121
21-Mar-2023
10:17
linh
pham

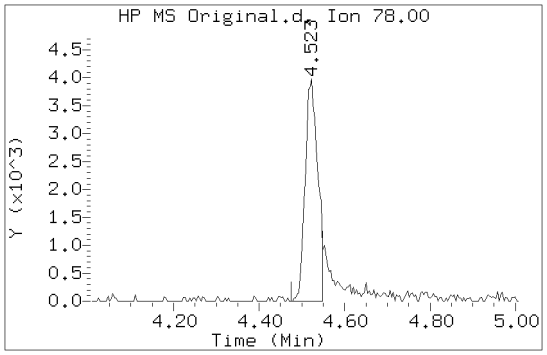


AFTER
MASS
119
AREA
2377
HEIGHT
1121
21-Mar-2023
10:17
linh
pham



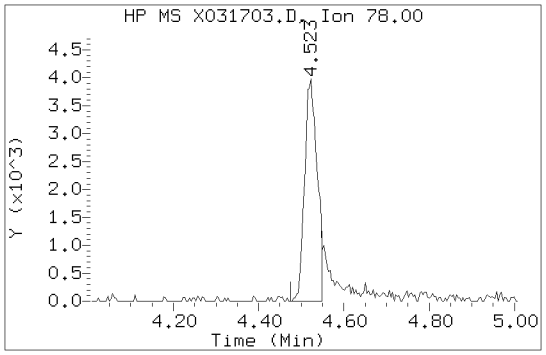
Benzene (71-43-2)

BEFORE
MASS
78
AREA
8236
HEIGHT
3980
21-Mar-2023
10:17
linh
pham

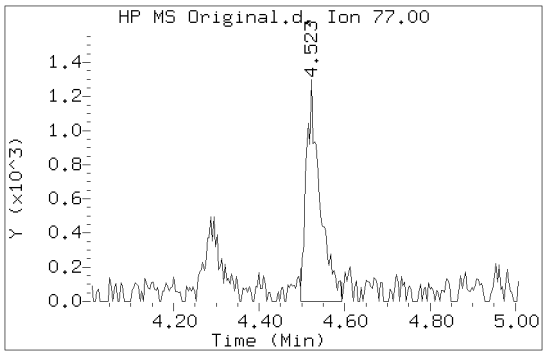


Reason Code:

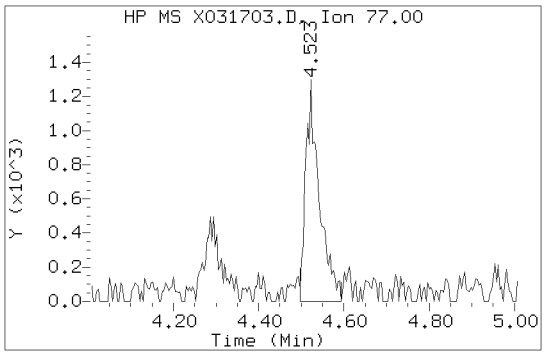
AFTER
MASS
78
AREA
8236
HEIGHT
3980
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
77
AREA
2911
HEIGHT
1298
21-Mar-2023
10:17
linh
pham



AFTER
MASS
77
AREA
2911
HEIGHT
1298
21-Mar-2023
10:17
linh
pham



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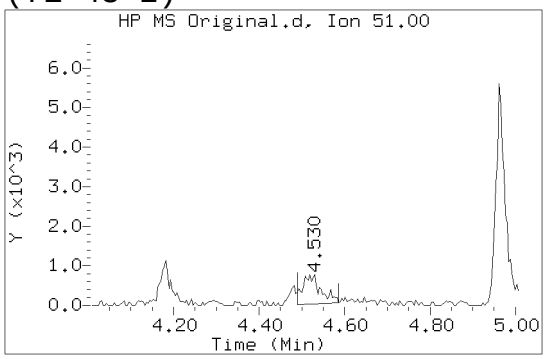
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Benzene (71-43-2)

Reason Code:

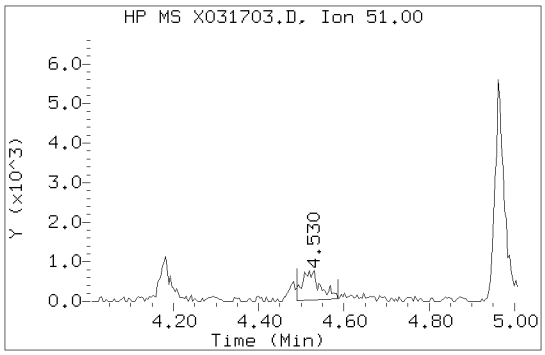
BEFORE

MASS
51
AREA
2203
HEIGHT
738
21-Mar-2023
10:17
linh
pham



AFTER

MASS
51
AREA
2203
HEIGHT
738
21-Mar-2023
10:17
linh
pham

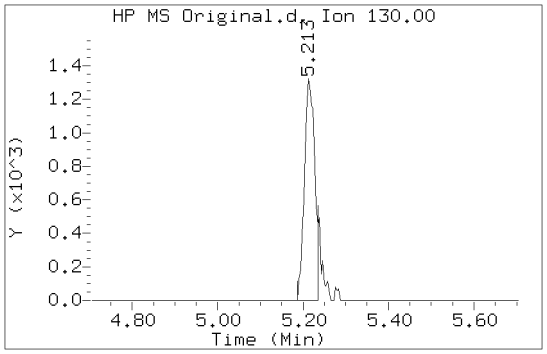


Trichloroethene (79-01-6)

Reason Code:

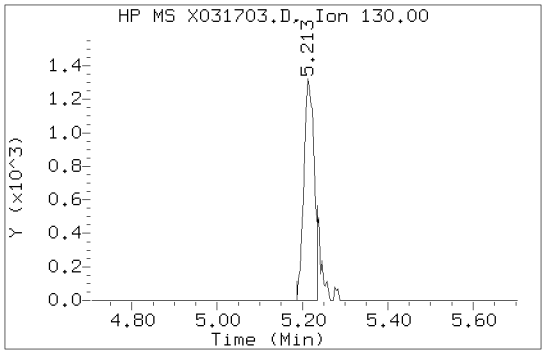
BEFORE

MASS
130
AREA
2257
HEIGHT
1323
21-Mar-2023
10:17
linh
pham



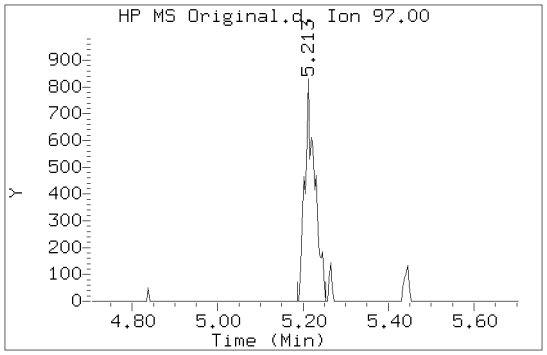
AFTER

MASS
130
AREA
2257
HEIGHT
1323
21-Mar-2023
10:17
linh
pham



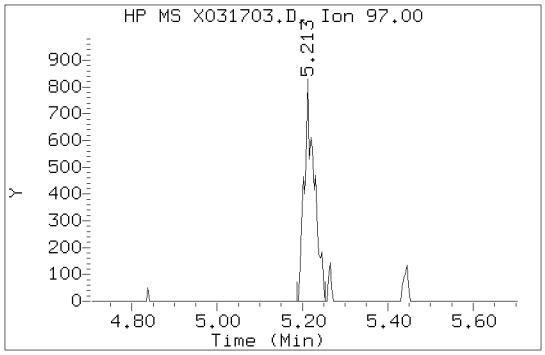
BEFORE

MASS
97
AREA
1364
HEIGHT
830
21-Mar-2023
10:17
linh
pham



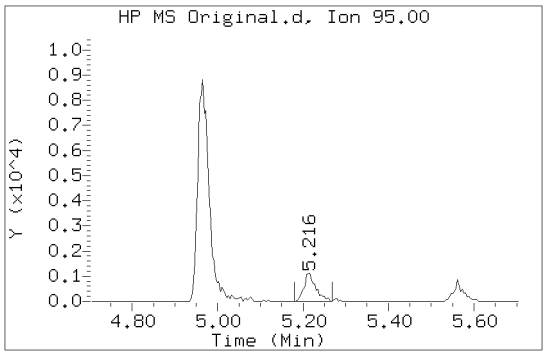
AFTER

MASS
97
AREA
1364
HEIGHT
830
21-Mar-2023
10:17
linh
pham



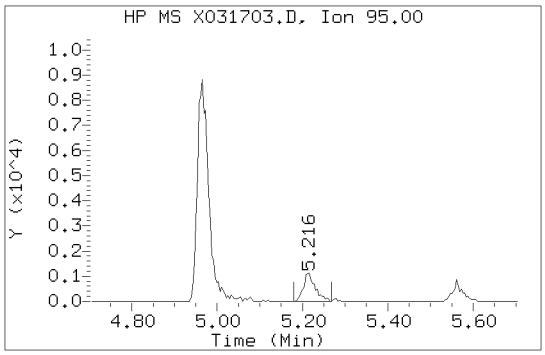
BEFORE

MASS
95
AREA
2169
HEIGHT
1117
21-Mar-2023
10:17
linh
pham



AFTER

MASS
95
AREA
2169
HEIGHT
1117
21-Mar-2023
10:17
linh
pham



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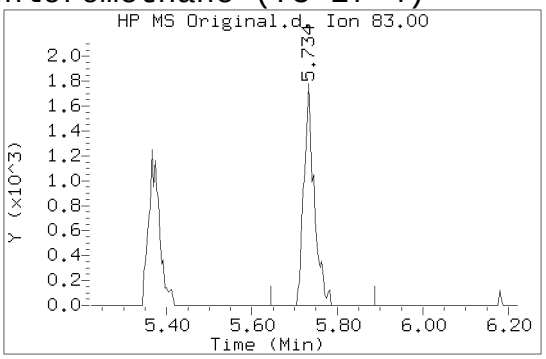
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

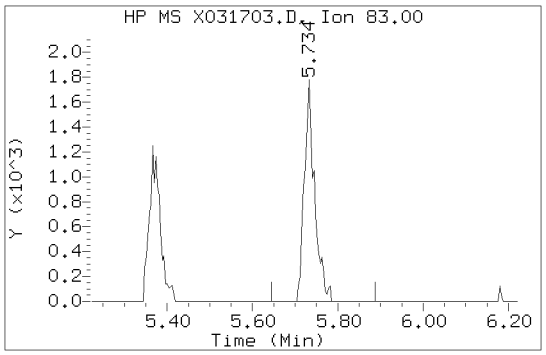
Bromodichloromethane (75-27-4)

Reason Code:

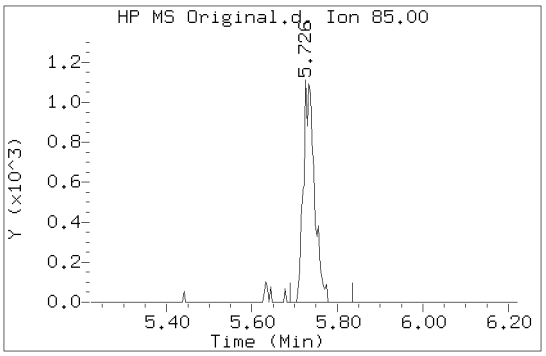
BEFORE
MASS
83
AREA
3021
HEIGHT
1780
21-Mar-2023
10:17
linh
pham



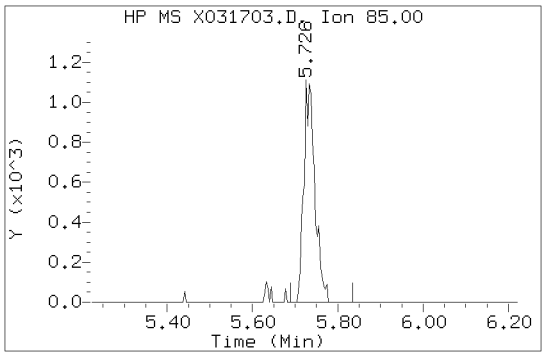
AFTER
MASS
83
AREA
3021
HEIGHT
1780
21-Mar-2023
10:17
linh
pham



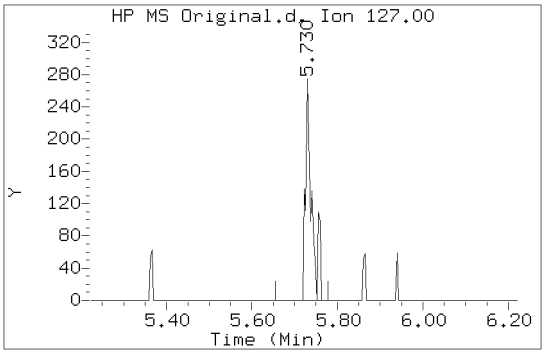
BEFORE
MASS
85
AREA
2028
HEIGHT
1112
21-Mar-2023
10:17
linh
pham



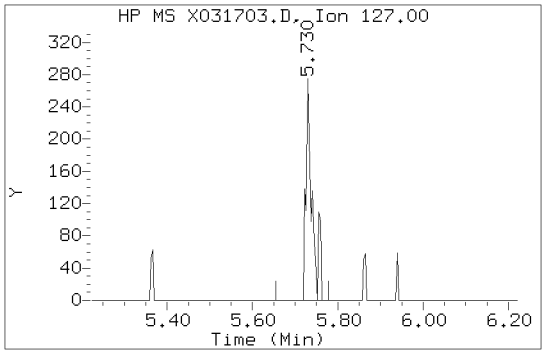
AFTER
MASS
85
AREA
2028
HEIGHT
1112
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
127
AREA
290
HEIGHT
275
21-Mar-2023
10:17
linh
pham



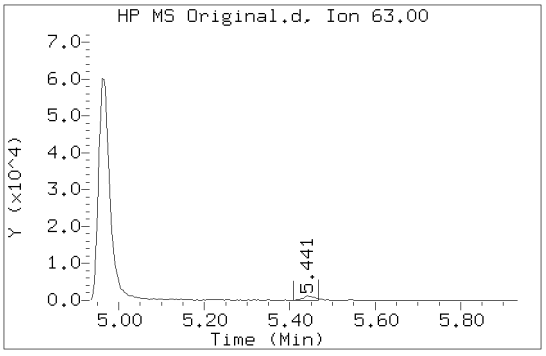
AFTER
MASS
127
AREA
290
HEIGHT
275
21-Mar-2023
10:17
linh
pham



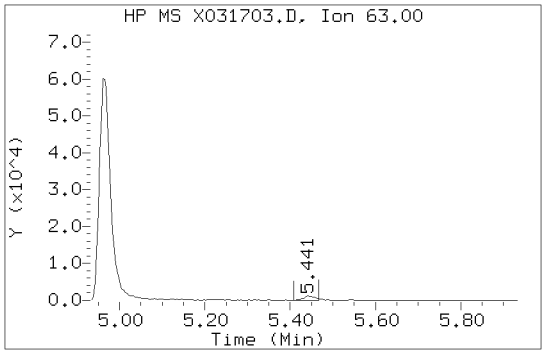
1,2-Dichloropropane (78-87-5)

Reason Code:

BEFORE
MASS
63
AREA
2264
HEIGHT
1296
21-Mar-2023
10:17
linh
pham



AFTER
MASS
63
AREA
2264
HEIGHT
1296
21-Mar-2023
10:17
linh
pham



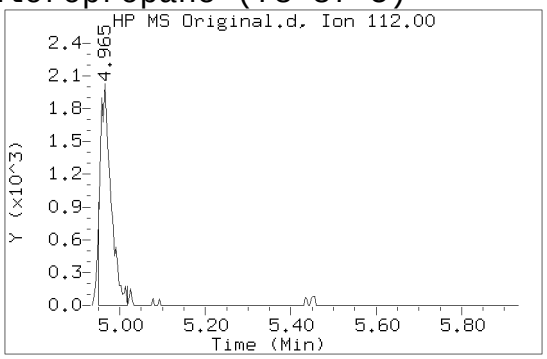
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,2-Dichloropropane (78-87-5)

Reason Code:

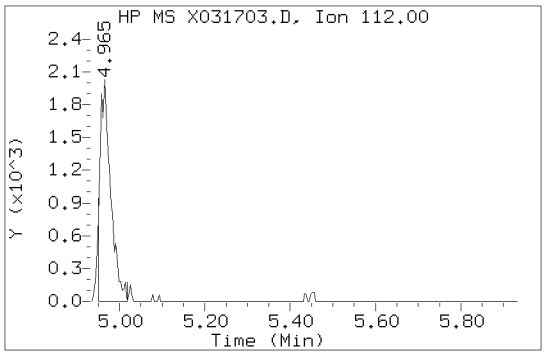
BEFORE

MASS
112
AREA
3522
HEIGHT
2028
21-Mar-2023
10:17
linh
pham



AFTER

MASS
112
AREA
3522
HEIGHT
2028
21-Mar-2023
10:17
linh
pham

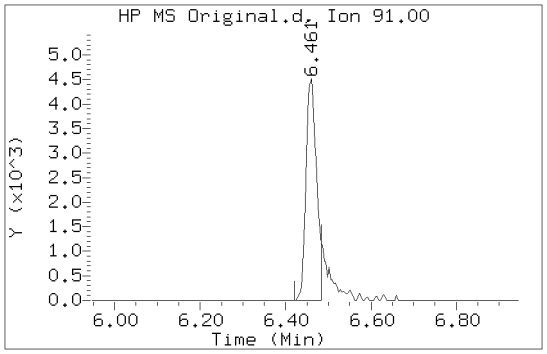


Toluene (108-88-3)

Reason Code:

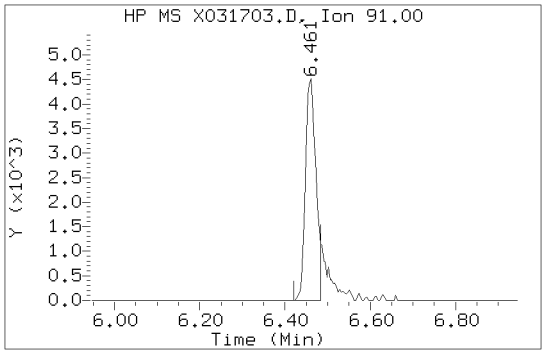
BEFORE

MASS
91
AREA
7835
HEIGHT
4516
21-Mar-2023
10:17
linh
pham



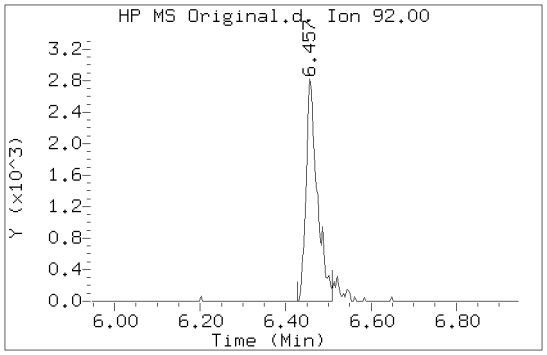
AFTER

MASS
91
AREA
7835
HEIGHT
4516
21-Mar-2023
10:17
linh
pham



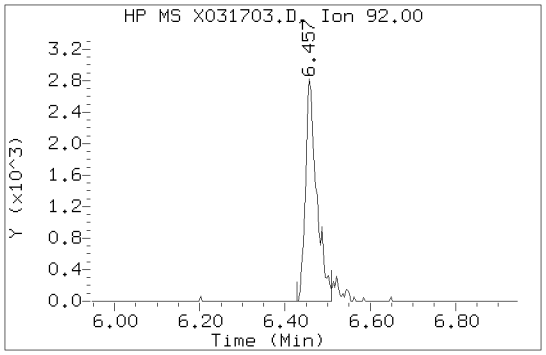
BEFORE

MASS
92
AREA
5186
HEIGHT
2823
21-Mar-2023
10:17
linh
pham



AFTER

MASS
92
AREA
5186
HEIGHT
2823
21-Mar-2023
10:17
linh
pham

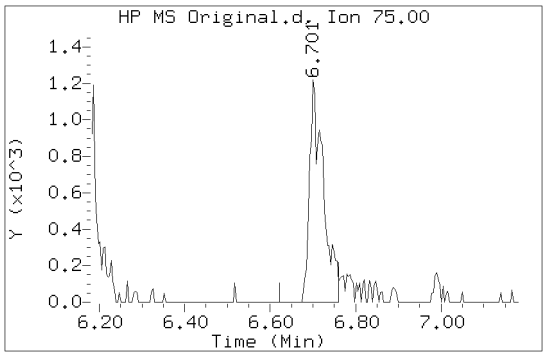


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

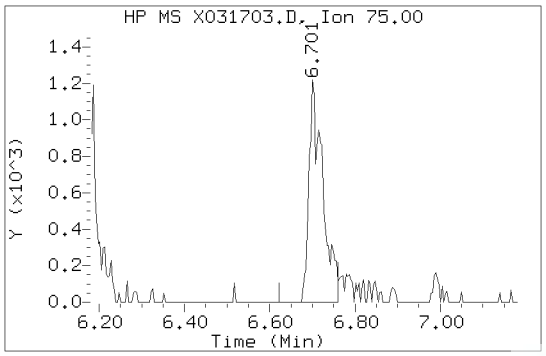
BEFORE

MASS
75
AREA
2740
HEIGHT
1219
21-Mar-2023
10:17
linh
pham



AFTER

MASS
75
AREA
2740
HEIGHT
1219
21-Mar-2023
10:17
linh
pham



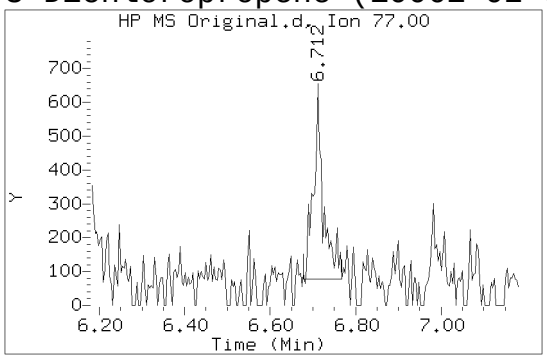
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

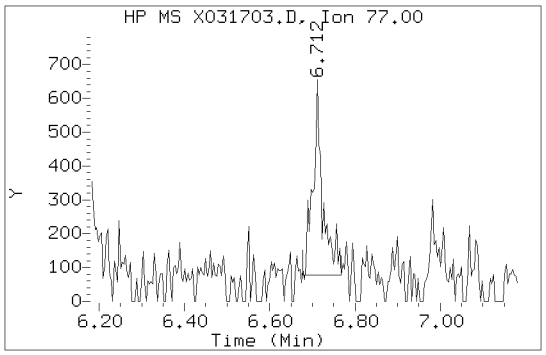
BEFORE

MASS
77
AREA
910
HEIGHT
578
21-Mar-2023
10:17
linh
pham



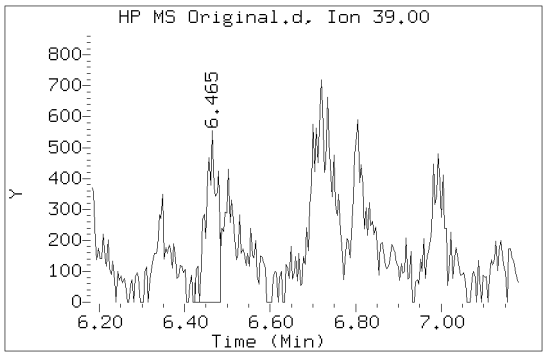
AFTER

MASS
77
AREA
910
HEIGHT
578
21-Mar-2023
10:17
linh
pham



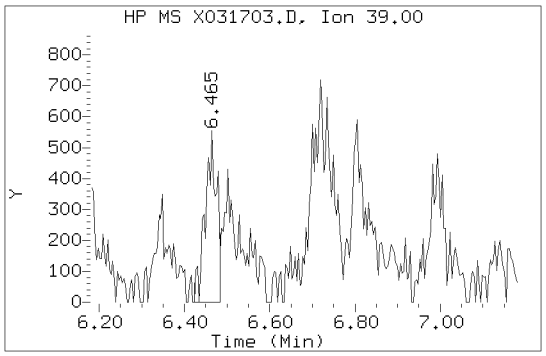
BEFORE

MASS
39
AREA
1026
HEIGHT
555
21-Mar-2023
10:17
linh
pham



AFTER

MASS
39
AREA
1026
HEIGHT
555
21-Mar-2023
10:17
linh
pham

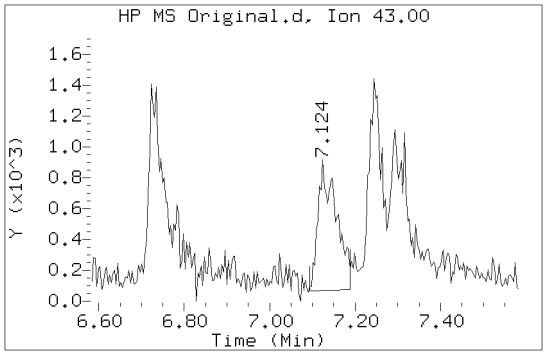


2-Hexanone (591-78-6)

Reason Code:

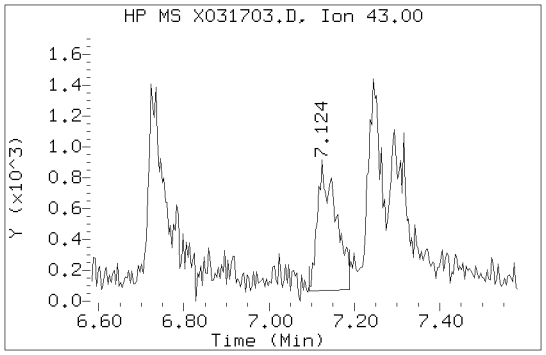
BEFORE

MASS
43
AREA
2519
HEIGHT
845
21-Mar-2023
10:17
linh
pham



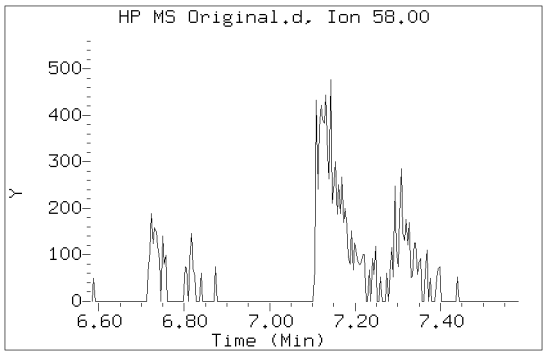
AFTER

MASS
43
AREA
2519
HEIGHT
845
21-Mar-2023
10:17
linh
pham



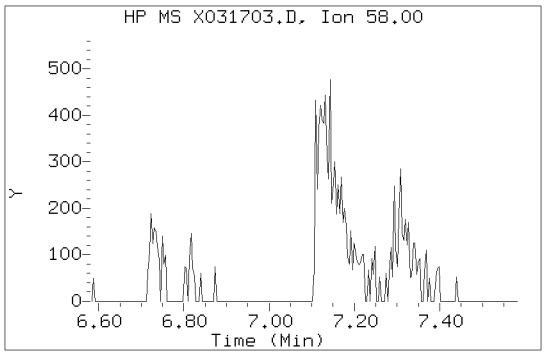
BEFORE

MASS
58
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
58
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



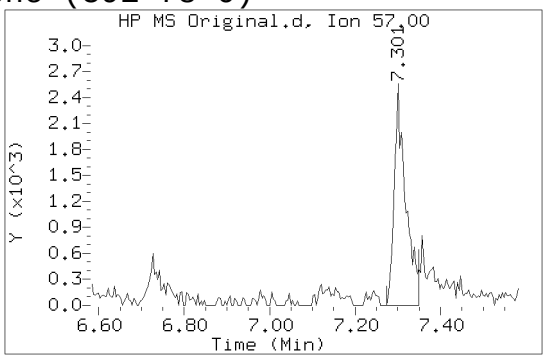
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

2-Hexanone (591-78-6)

Reason Code:

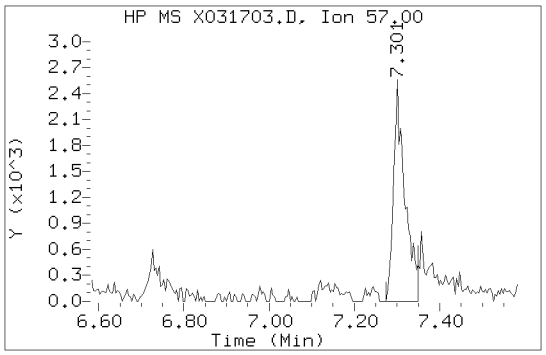
BEFORE

MASS
57
AREA
4771
HEIGHT
2561
21-Mar-2023
10:17
linh
pham



AFTER

MASS
57
AREA
4771
HEIGHT
2561
21-Mar-2023
10:17
linh
pham

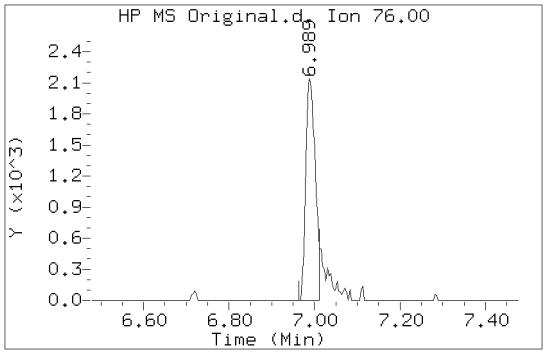


1,3-Dichloropropane (142-28-9)

Reason Code:

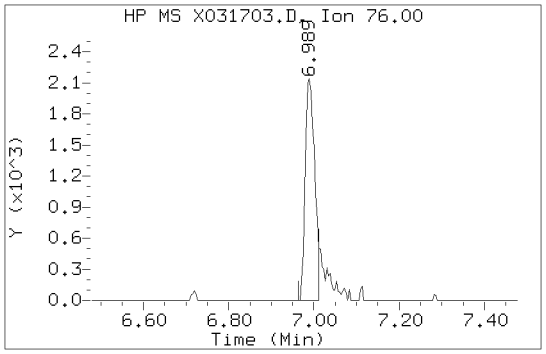
BEFORE

MASS
76
AREA
3374
HEIGHT
2140
21-Mar-2023
10:17
linh
pham



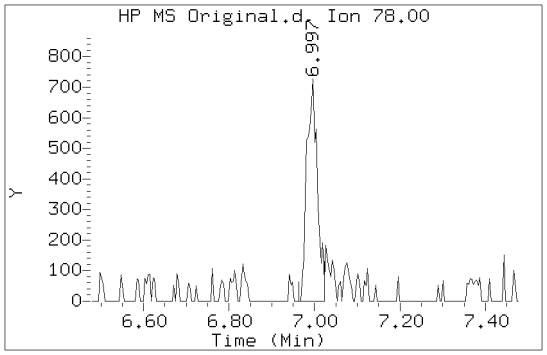
AFTER

MASS
76
AREA
3374
HEIGHT
2140
21-Mar-2023
10:17
linh
pham



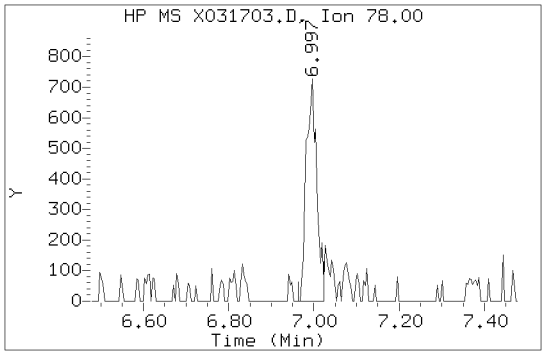
BEFORE

MASS
78
AREA
1252
HEIGHT
727
21-Mar-2023
10:17
linh
pham



AFTER

MASS
78
AREA
1252
HEIGHT
727
21-Mar-2023
10:17
linh
pham

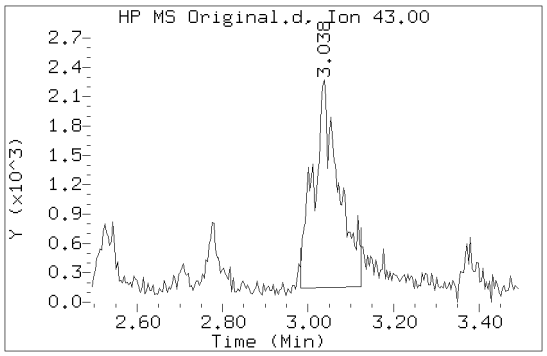


Vinyl Acetate (108-05-4)

Reason Code:

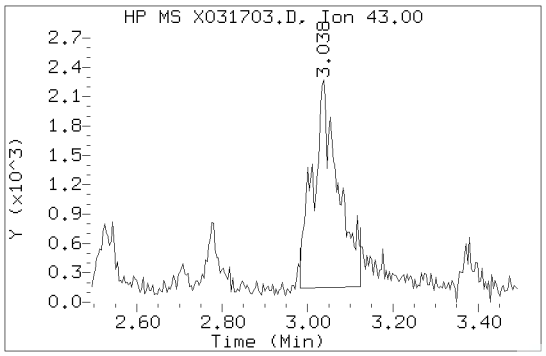
BEFORE

MASS
43
AREA
8761
HEIGHT
2120
21-Mar-2023
10:17
linh
pham



AFTER

MASS
43
AREA
8761
HEIGHT
2120
21-Mar-2023
10:17
linh
pham



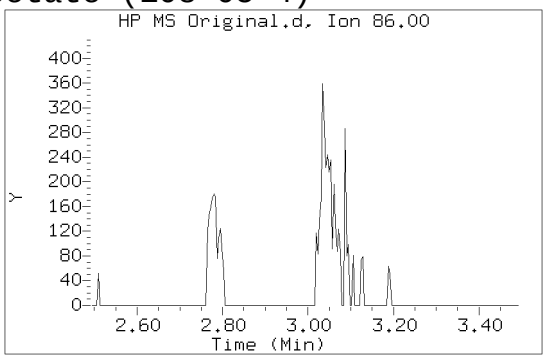
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Vinyl Acetate (108-05-4)

Reason Code:

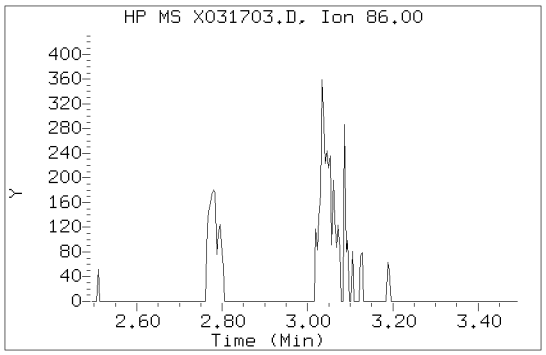
BEFORE

MASS
86
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
86
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

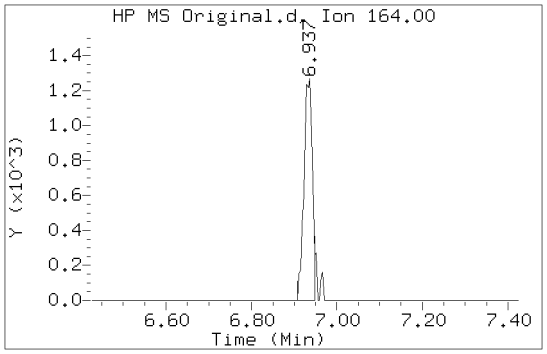


Tetrachloroethene (127-18-4)

Reason Code:

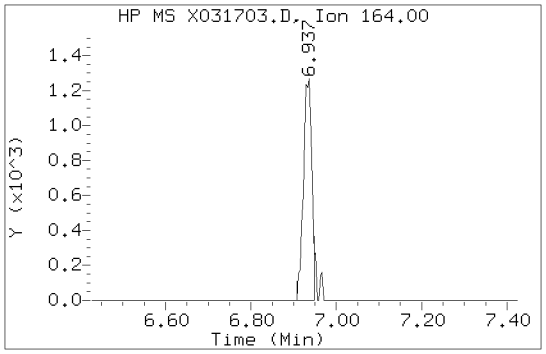
BEFORE

MASS
164
AREA
1777
HEIGHT
1268
21-Mar-2023
10:17
linh
pham



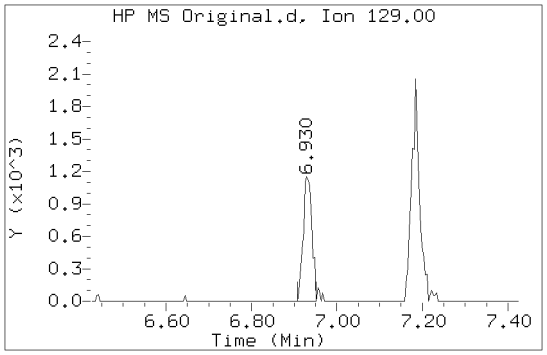
AFTER

MASS
164
AREA
1777
HEIGHT
1268
21-Mar-2023
10:17
linh
pham



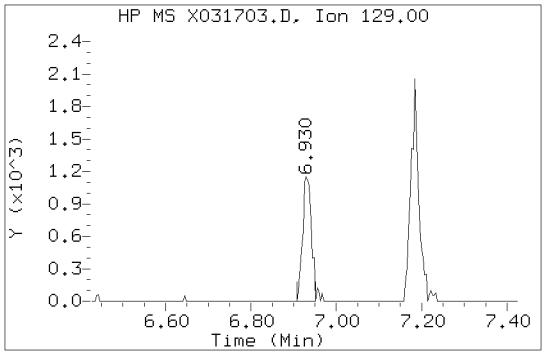
BEFORE

MASS
129
AREA
1687
HEIGHT
1152
21-Mar-2023
10:17
linh
pham



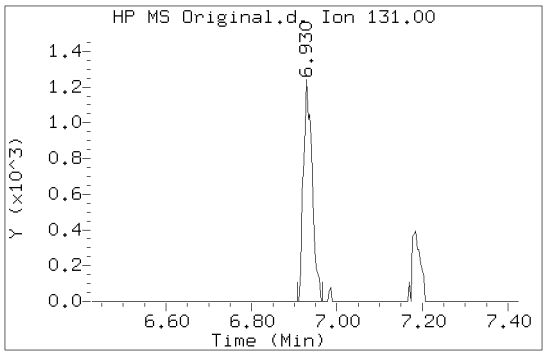
AFTER

MASS
129
AREA
1687
HEIGHT
1152
21-Mar-2023
10:17
linh
pham



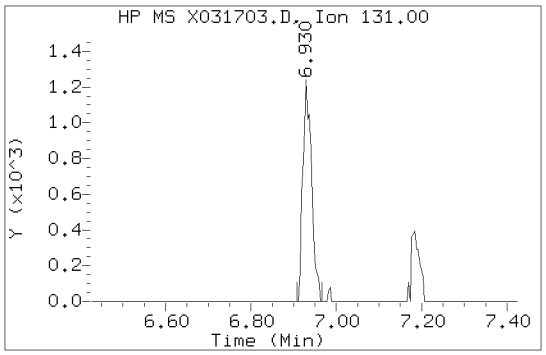
BEFORE

MASS
131
AREA
1803
HEIGHT
1241
21-Mar-2023
10:17
linh
pham



AFTER

MASS
131
AREA
1803
HEIGHT
1241
21-Mar-2023
10:17
linh
pham

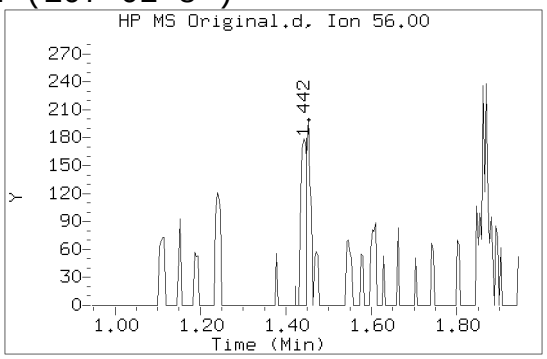


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

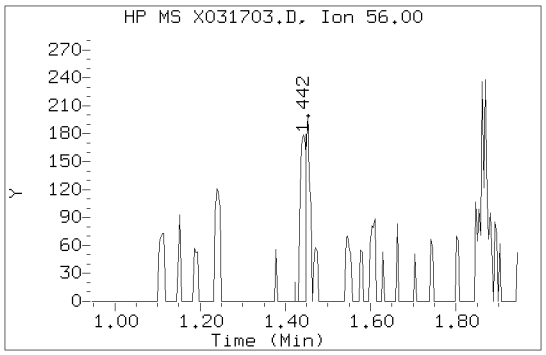
Acrolein (107-02-8)

Reason Code:

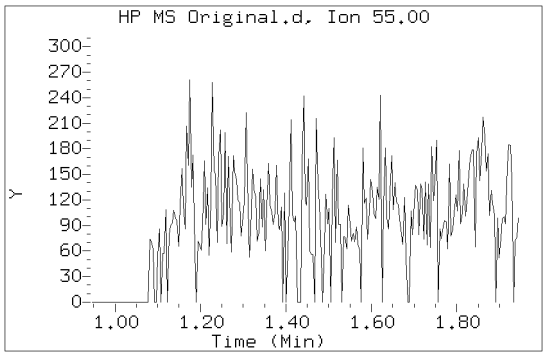
BEFORE
MASS
56
AREA
179
HEIGHT
179
21-Mar-2023
10:17
linh
pham



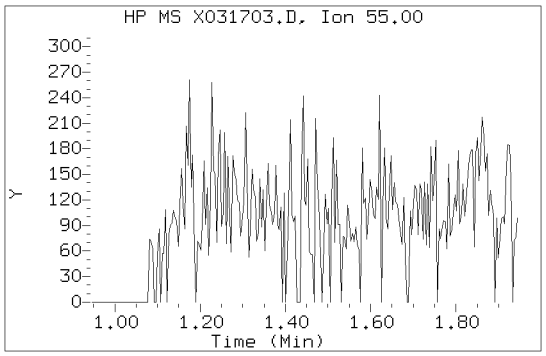
AFTER
MASS
56
AREA
179
HEIGHT
179
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
55
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



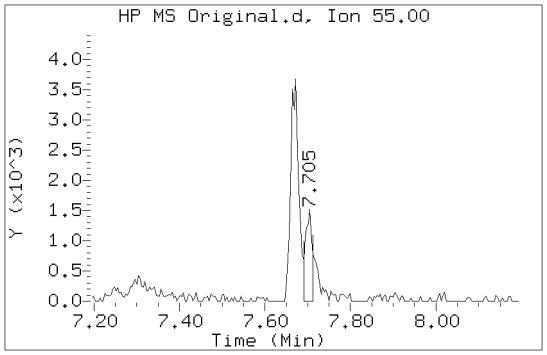
AFTER
MASS
55
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



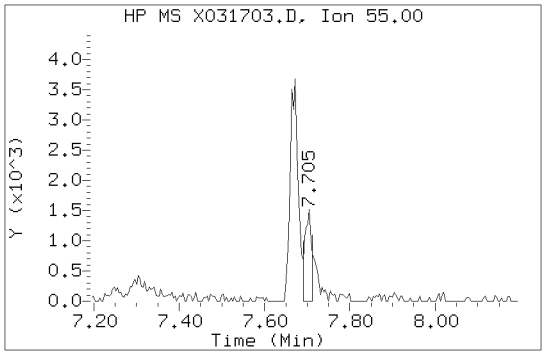
1-Chlorohexane (544-10-5)

Reason Code:

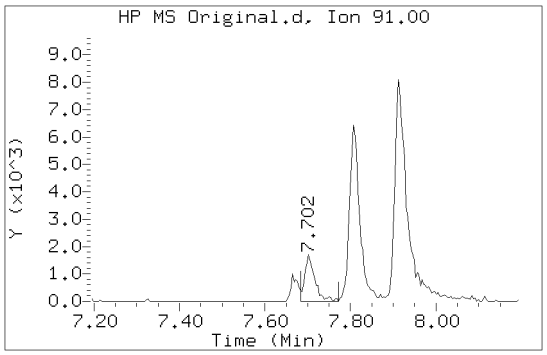
BEFORE
MASS
55
AREA
1701
HEIGHT
1525
21-Mar-2023
10:17
linh
pham



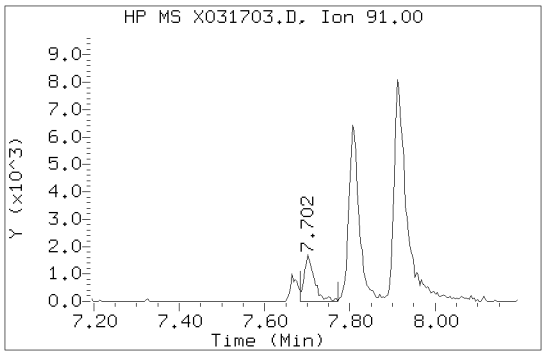
AFTER
MASS
55
AREA
1701
HEIGHT
1525
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
91
AREA
2906
HEIGHT
1713
21-Mar-2023
10:17
linh
pham



AFTER
MASS
91
AREA
2906
HEIGHT
1713
21-Mar-2023
10:17
linh
pham



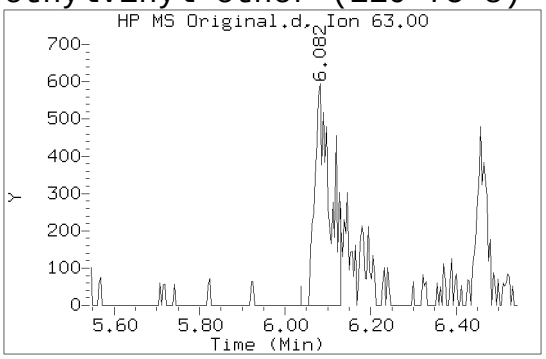
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

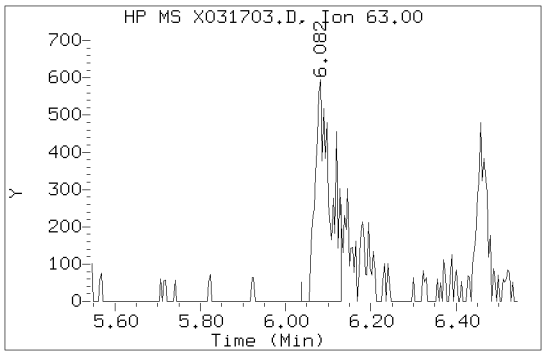
BEFORE

MASS
63
AREA
1463
HEIGHT
595
21-Mar-2023
10:17
linh
pham



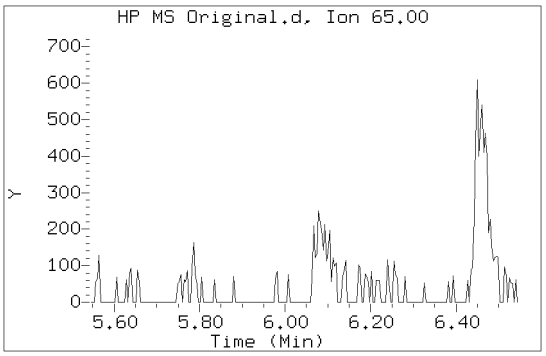
AFTER

MASS
63
AREA
1463
HEIGHT
595
21-Mar-2023
10:17
linh
pham



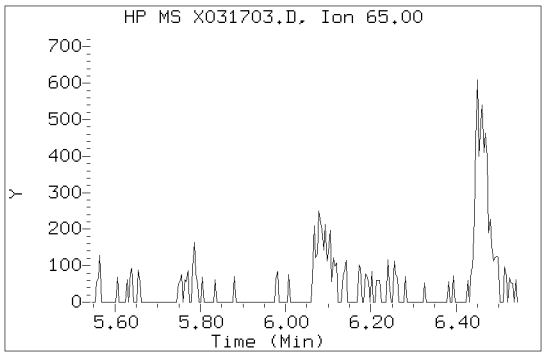
BEFORE

MASS
65
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



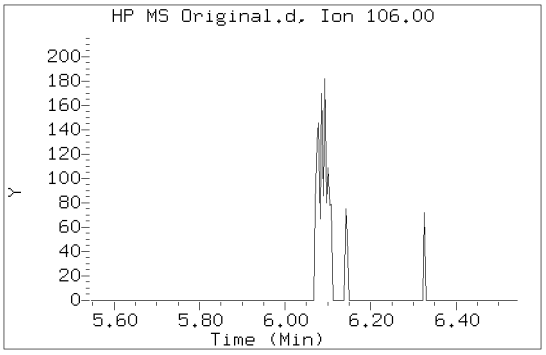
AFTER

MASS
65
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



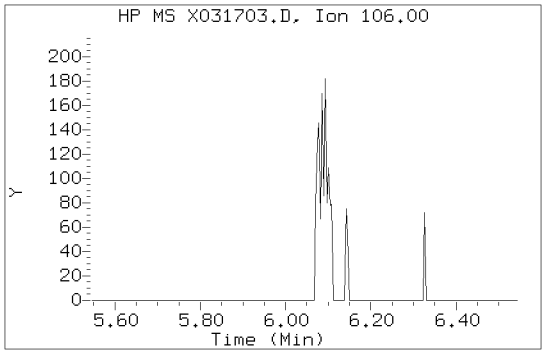
BEFORE

MASS
106
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
106
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

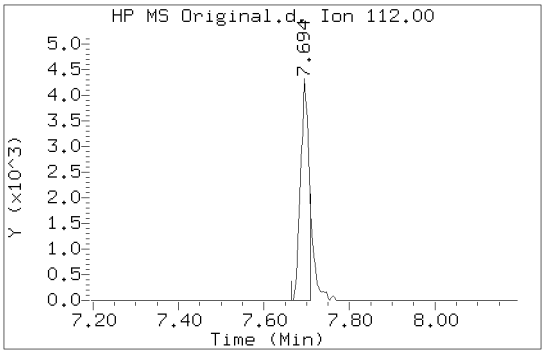


Chlorobenzene (108-90-7)

Reason Code:

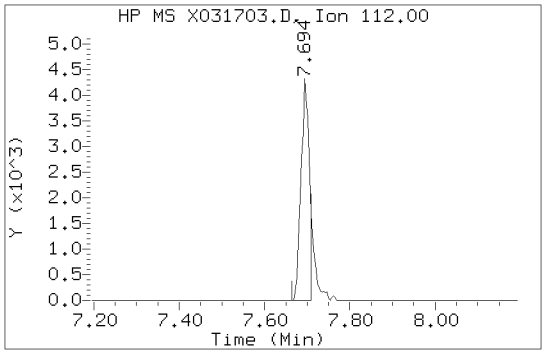
BEFORE

MASS
112
AREA
5868
HEIGHT
4318
21-Mar-2023
10:17
linh
pham



AFTER

MASS
112
AREA
5868
HEIGHT
4318
21-Mar-2023
10:17
linh
pham



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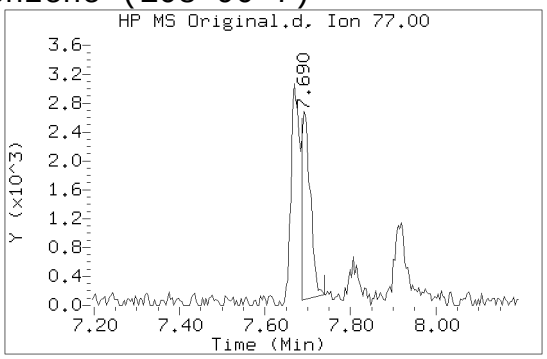
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

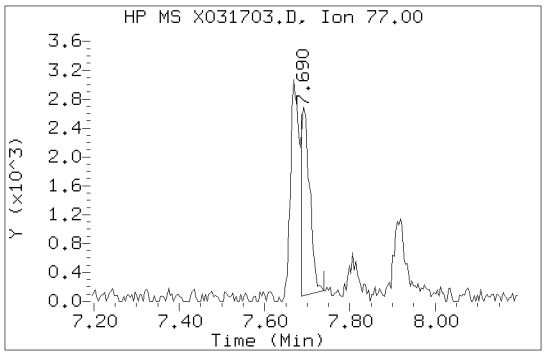
Chlorobenzene (108-90-7)

Reason Code:

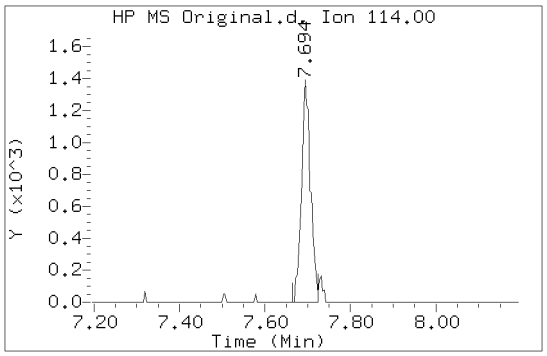
BEFORE
MASS
77
AREA
3627
HEIGHT
2613
21-Mar-2023
10:17
linh
pham



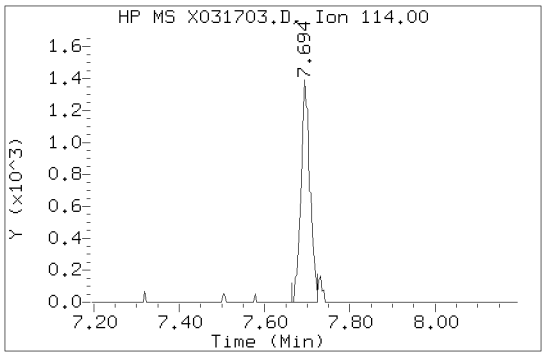
AFTER
MASS
77
AREA
3627
HEIGHT
2613
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
114
AREA
2102
HEIGHT
1392
21-Mar-2023
10:17
linh
pham



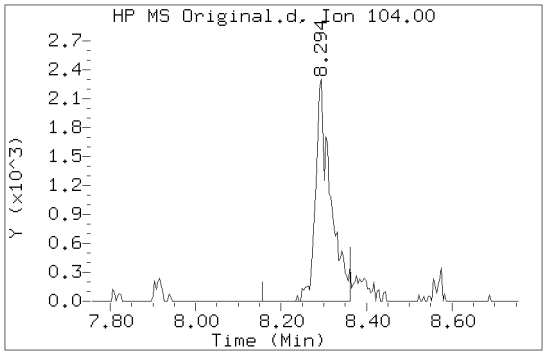
AFTER
MASS
114
AREA
2102
HEIGHT
1392
21-Mar-2023
10:17
linh
pham



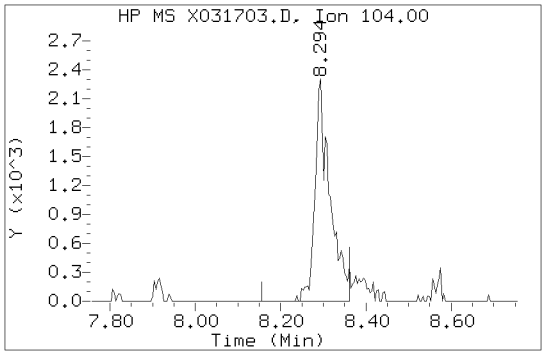
Styrene (100-42-5)

Reason Code:

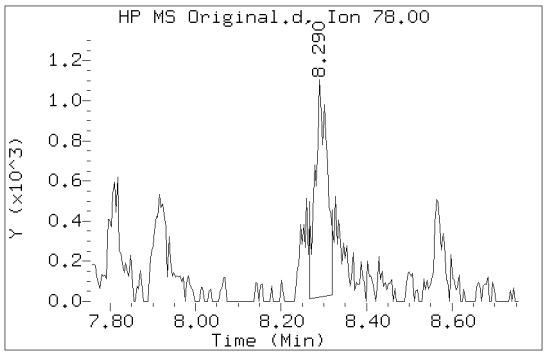
BEFORE
MASS
104
AREA
5629
HEIGHT
2306
21-Mar-2023
10:17
linh
pham



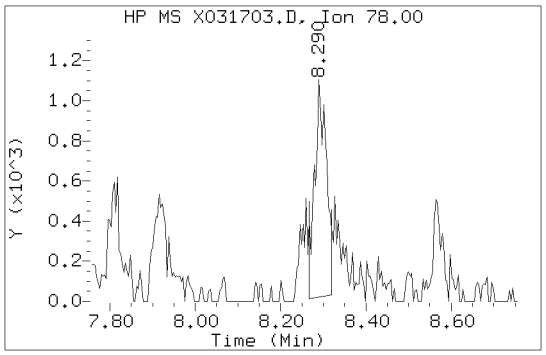
AFTER
MASS
104
AREA
5629
HEIGHT
2306
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
78
AREA
2108
HEIGHT
1083
21-Mar-2023
10:17
linh
pham



AFTER
MASS
78
AREA
2108
HEIGHT
1083
21-Mar-2023
10:17
linh
pham



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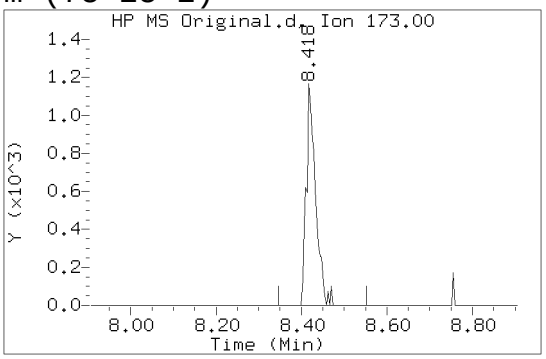
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Bromoform (75-25-2)

Reason Code:

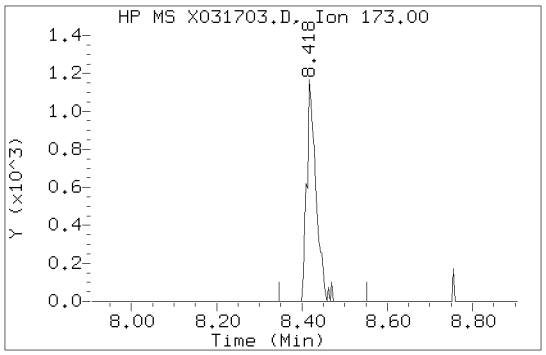
BEFORE

MASS
173
AREA
1781
HEIGHT
1167
21-Mar-2023
10:17
linh
pham



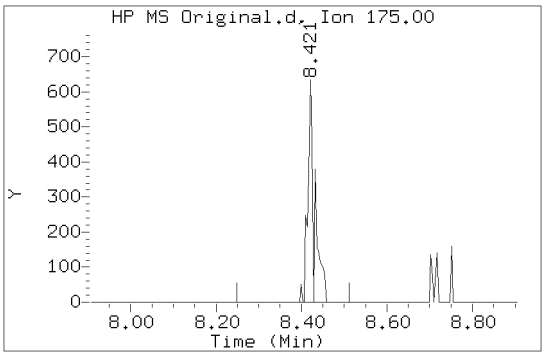
AFTER

MASS
173
AREA
1781
HEIGHT
1167
21-Mar-2023
10:17
linh
pham



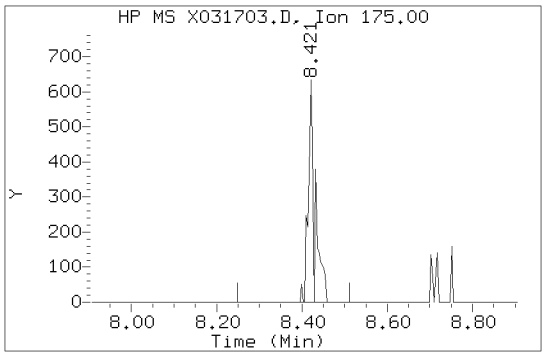
BEFORE

MASS
175
AREA
685
HEIGHT
634
21-Mar-2023
10:17
linh
pham



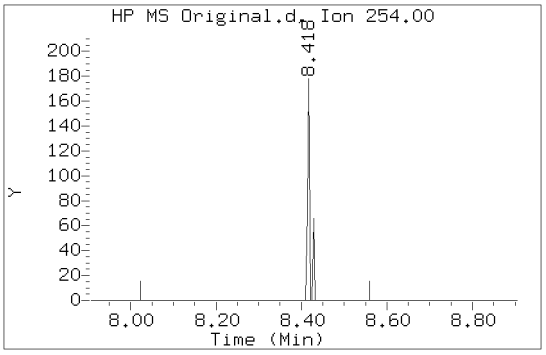
AFTER

MASS
175
AREA
685
HEIGHT
634
21-Mar-2023
10:17
linh
pham



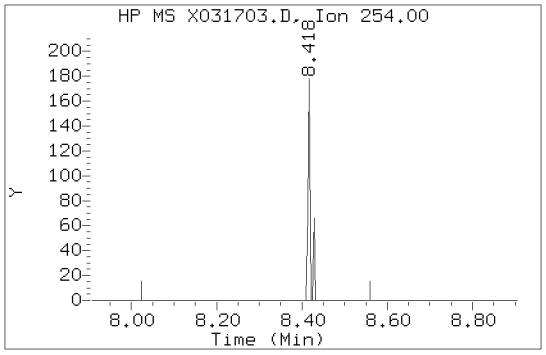
BEFORE

MASS
254
AREA
70
HEIGHT
178
21-Mar-2023
10:17
linh
pham



AFTER

MASS
254
AREA
70
HEIGHT
178
21-Mar-2023
10:17
linh
pham

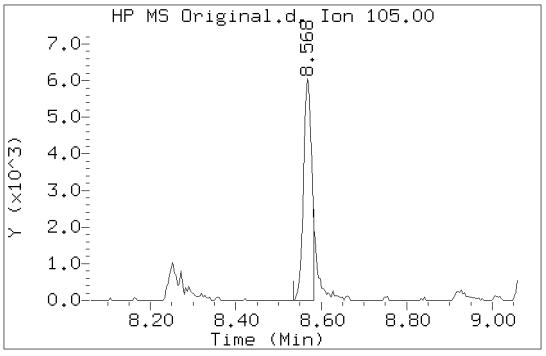


Isopropylbenzene (98-82-8)

Reason Code:

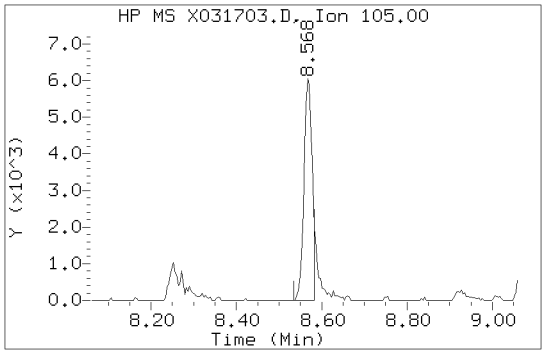
BEFORE

MASS
105
AREA
8191
HEIGHT
6052
21-Mar-2023
10:17
linh
pham



AFTER

MASS
105
AREA
8191
HEIGHT
6052
21-Mar-2023
10:17
linh
pham



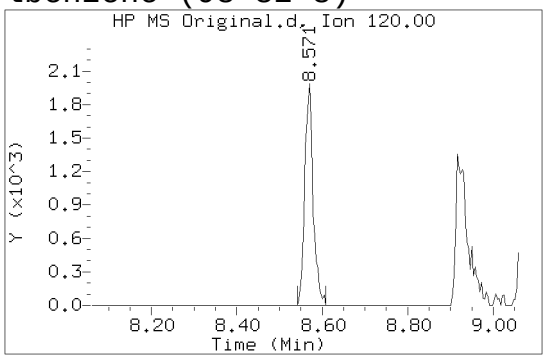
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Isopropylbenzene (98-82-8)

Reason Code:

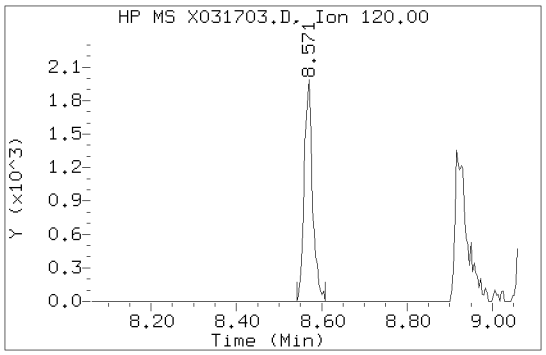
BEFORE

MASS
120
AREA
2761
HEIGHT
1988
21-Mar-2023
10:17
linh
pham



AFTER

MASS
120
AREA
2761
HEIGHT
1988
21-Mar-2023
10:17
linh
pham

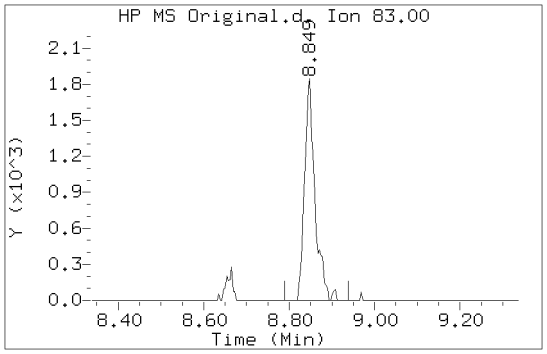


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

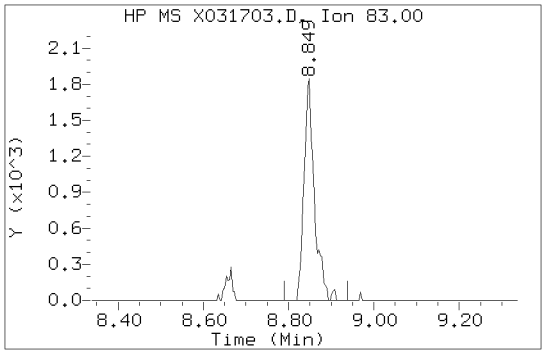
BEFORE

MASS
83
AREA
3141
HEIGHT
1846
21-Mar-2023
10:17
linh
pham



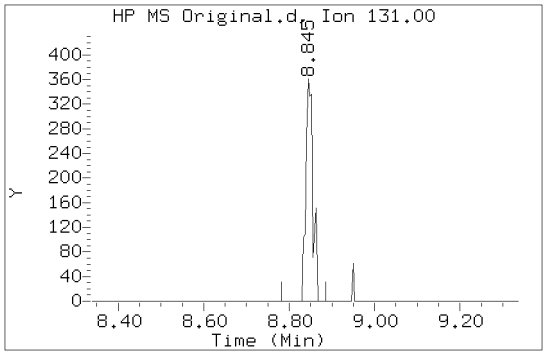
AFTER

MASS
83
AREA
3141
HEIGHT
1846
21-Mar-2023
10:17
linh
pham



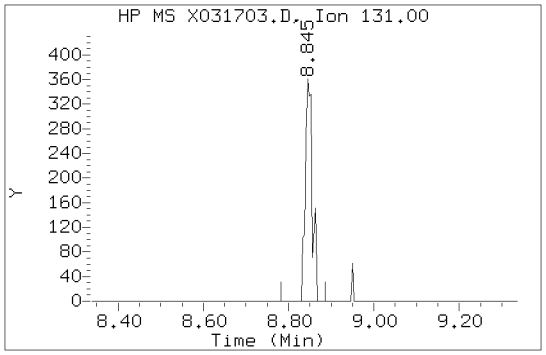
BEFORE

MASS
131
AREA
415
HEIGHT
361
21-Mar-2023
10:17
linh
pham



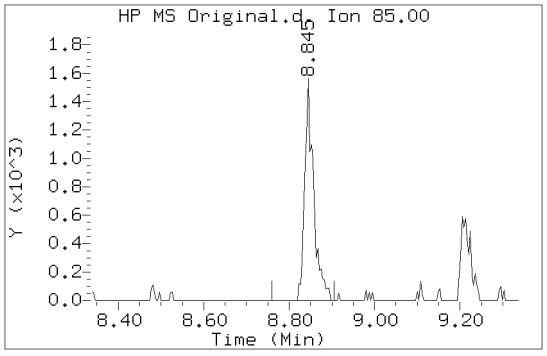
AFTER

MASS
131
AREA
415
HEIGHT
361
21-Mar-2023
10:17
linh
pham



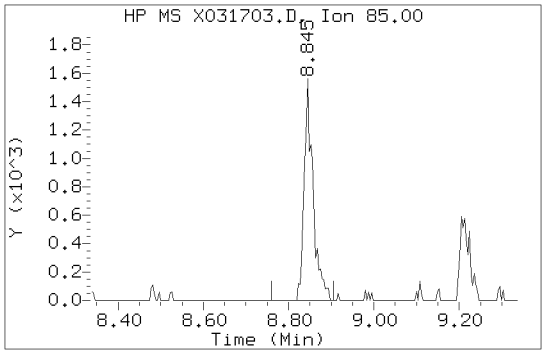
BEFORE

MASS
85
AREA
2273
HEIGHT
1562
21-Mar-2023
10:17
linh
pham



AFTER

MASS
85
AREA
2273
HEIGHT
1562
21-Mar-2023
10:17
linh
pham



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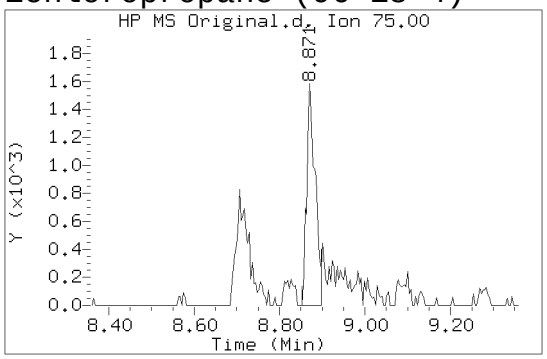
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,2,3-Trichloropropane (96-18-4)

Reason Code:

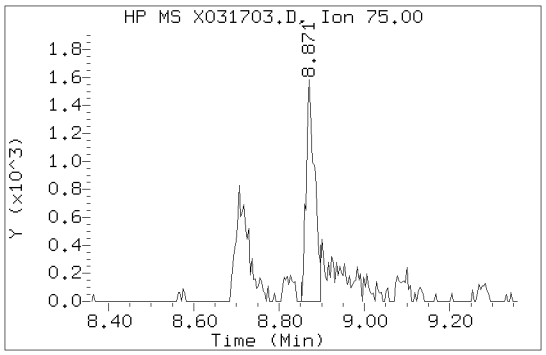
BEFORE

MASS
75
AREA
2211
HEIGHT
1584
21-Mar-2023
10:17
linh
pham



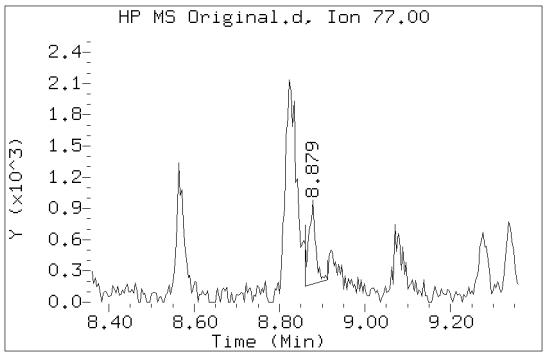
AFTER

MASS
75
AREA
2211
HEIGHT
1584
21-Mar-2023
10:17
linh
pham



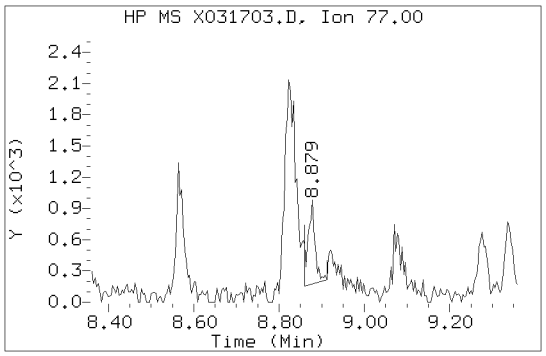
BEFORE

MASS
77
AREA
945
HEIGHT
806
21-Mar-2023
10:17
linh
pham



AFTER

MASS
77
AREA
945
HEIGHT
806
21-Mar-2023
10:17
linh
pham

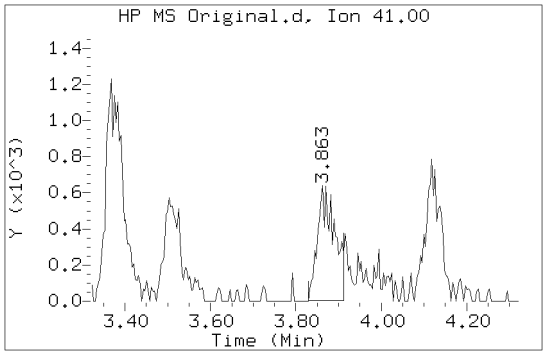


Methacrylonitrile (126-98-7)

Reason Code:

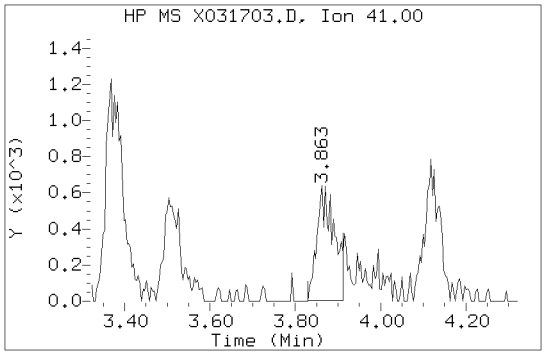
BEFORE

MASS
41
AREA
1764
HEIGHT
634
21-Mar-2023
10:17
linh
pham



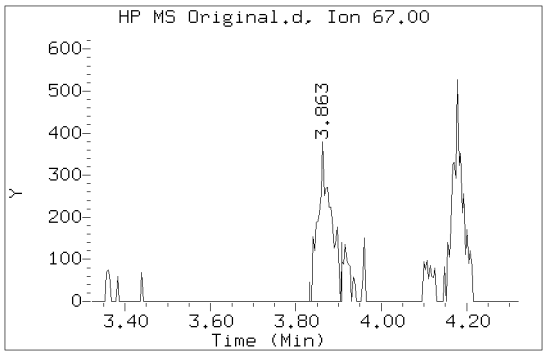
AFTER

MASS
41
AREA
1764
HEIGHT
634
21-Mar-2023
10:17
linh
pham



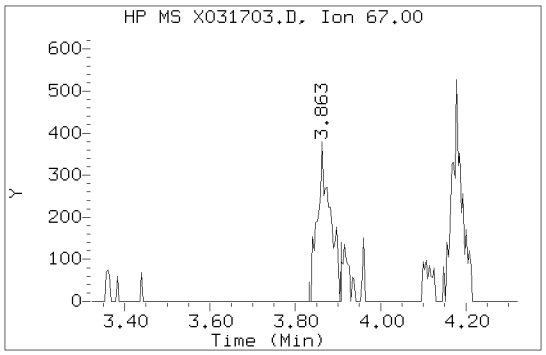
BEFORE

MASS
67
AREA
804
HEIGHT
379
21-Mar-2023
10:17
linh
pham



AFTER

MASS
67
AREA
804
HEIGHT
379
21-Mar-2023
10:17
linh
pham



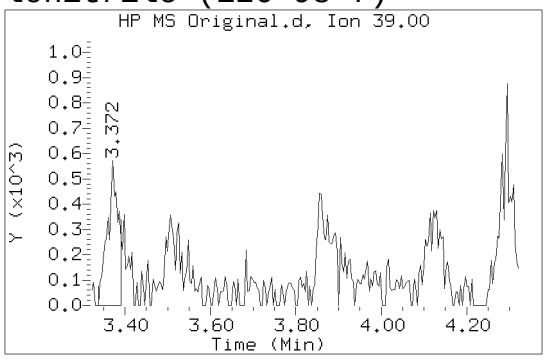
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Methacrylonitrile (126-98-7)

Reason Code:

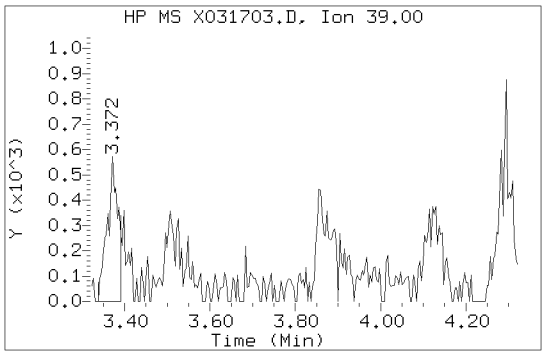
BEFORE

MASS
39
AREA
985
HEIGHT
573
21-Mar-2023
10:17
linh
pham



AFTER

MASS
39
AREA
985
HEIGHT
573
21-Mar-2023
10:17
linh
pham

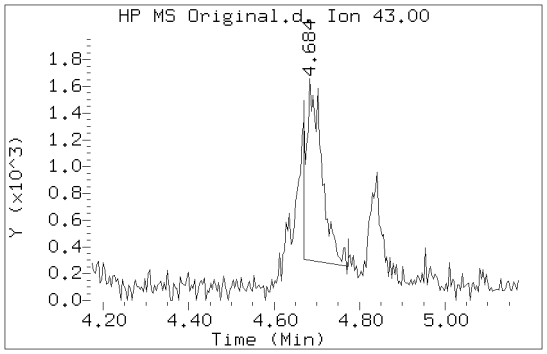


Isobutyl Alcohol (78-83-1)

Reason Code:

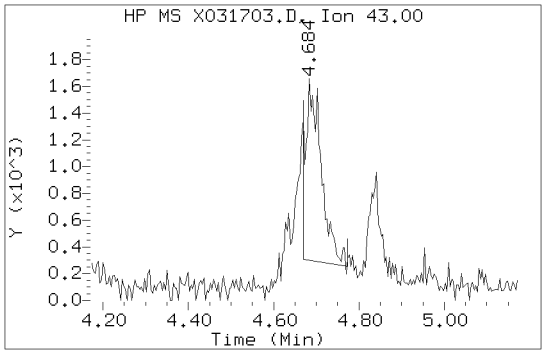
BEFORE

MASS
43
AREA
3536
HEIGHT
1356
21-Mar-2023
10:17
linh
pham



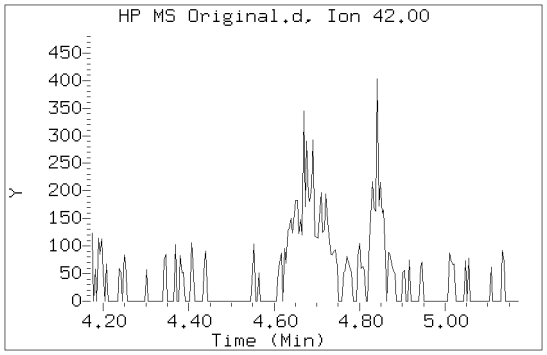
AFTER

MASS
43
AREA
3536
HEIGHT
1356
21-Mar-2023
10:17
linh
pham



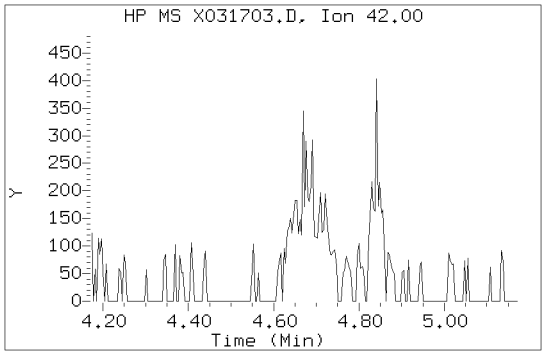
BEFORE

MASS
42
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



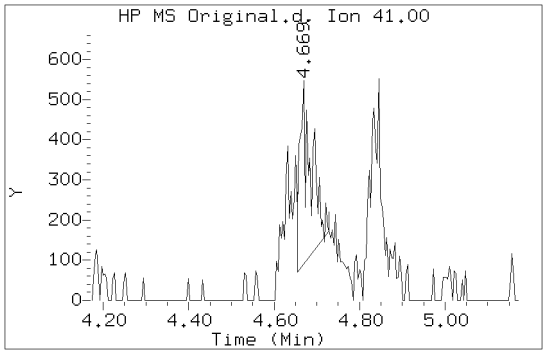
AFTER

MASS
42
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



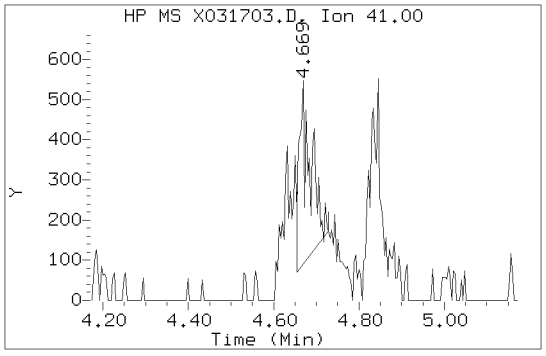
BEFORE

MASS
41
AREA
854
HEIGHT
456
21-Mar-2023
10:17
linh
pham



AFTER

MASS
41
AREA
854
HEIGHT
456
21-Mar-2023
10:17
linh
pham



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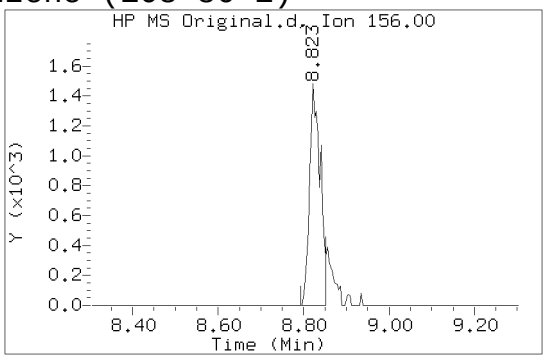
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Bromobenzene (108-86-1)

Reason Code:

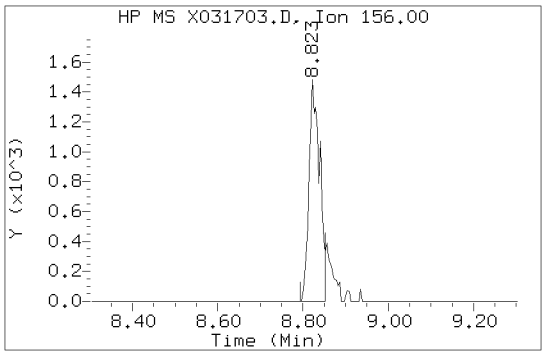
BEFORE

MASS
156
AREA
2604
HEIGHT
1482
21-Mar-2023
10:17
linh
pham



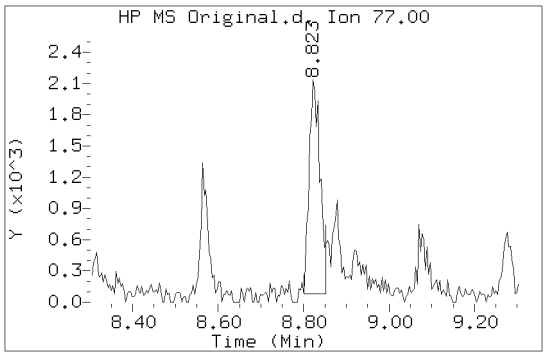
AFTER

MASS
156
AREA
2604
HEIGHT
1482
21-Mar-2023
10:17
linh
pham



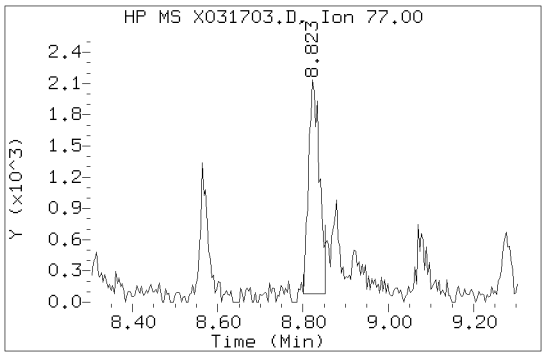
BEFORE

MASS
77
AREA
3655
HEIGHT
2052
21-Mar-2023
10:17
linh
pham



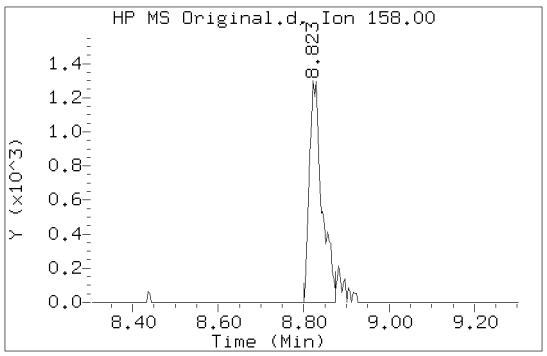
AFTER

MASS
77
AREA
3655
HEIGHT
2052
21-Mar-2023
10:17
linh
pham



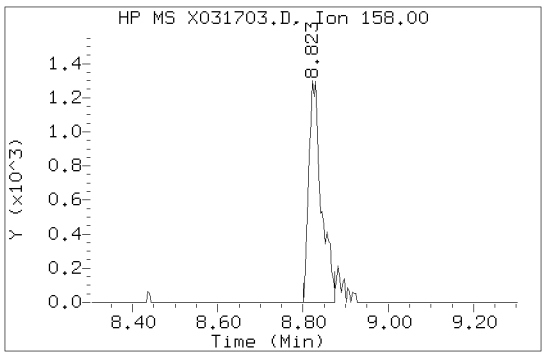
BEFORE

MASS
158
AREA
2662
HEIGHT
1300
21-Mar-2023
10:17
linh
pham



AFTER

MASS
158
AREA
2662
HEIGHT
1300
21-Mar-2023
10:17
linh
pham

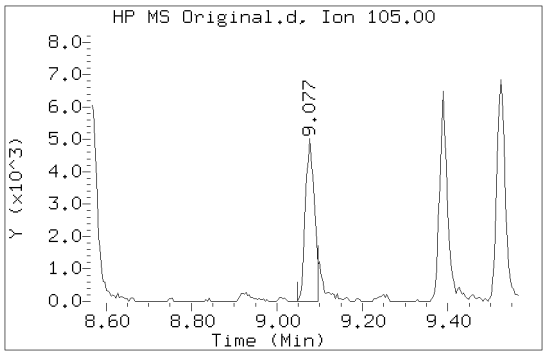


1,3,5-Trimethylbenzene (108-67-8)

Reason Code:

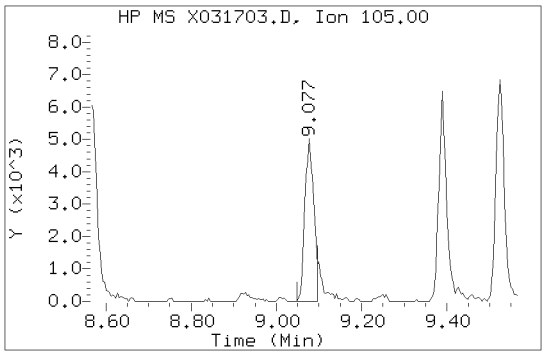
BEFORE

MASS
105
AREA
7357
HEIGHT
5018
21-Mar-2023
10:17
linh
pham



AFTER

MASS
105
AREA
7357
HEIGHT
5018
21-Mar-2023
10:17
linh
pham



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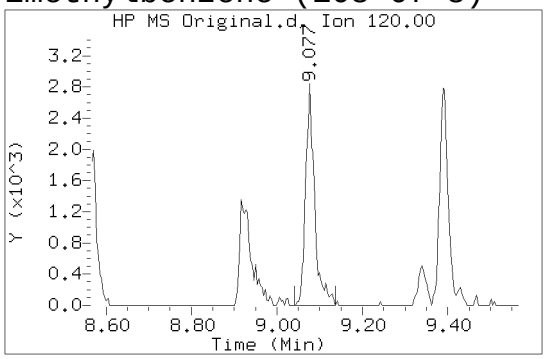
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,3,5-Trimethylbenzene (108-67-8)

Reason Code:

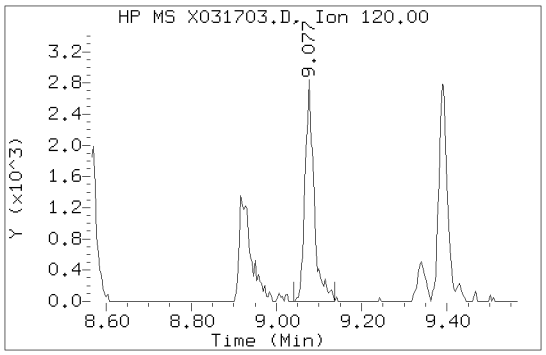
BEFORE

MASS
120
AREA
4167
HEIGHT
2842
21-Mar-2023
10:17
linh
pham



AFTER

MASS
120
AREA
4167
HEIGHT
2842
21-Mar-2023
10:17
linh
pham

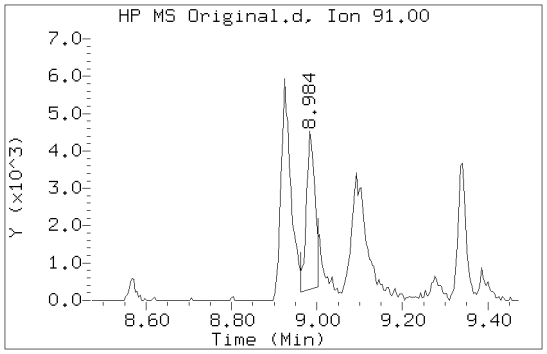


2-Chlorotoluene (95-49-8)

Reason Code:

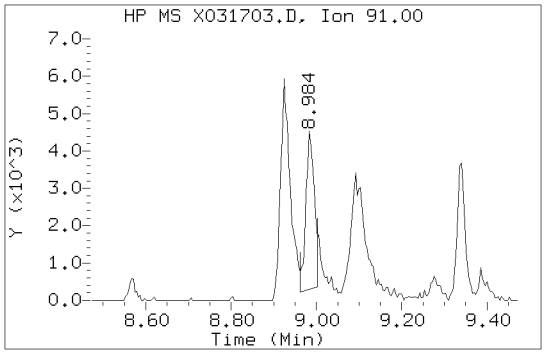
BEFORE

MASS
91
AREA
5959
HEIGHT
4231
21-Mar-2023
10:17
linh
pham



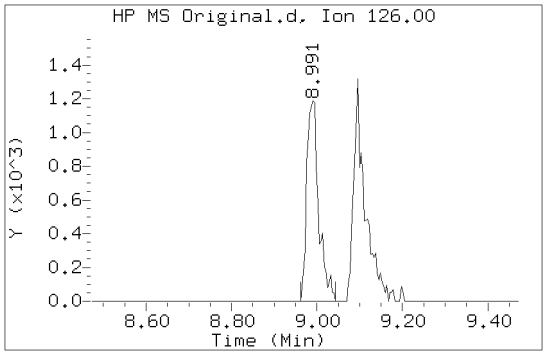
AFTER

MASS
91
AREA
5959
HEIGHT
4231
21-Mar-2023
10:17
linh
pham



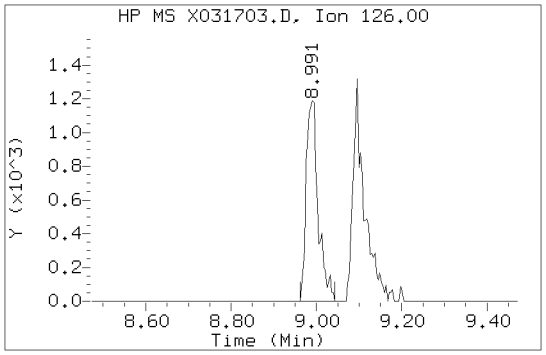
BEFORE

MASS
126
AREA
2327
HEIGHT
1189
21-Mar-2023
10:17
linh
pham



AFTER

MASS
126
AREA
2327
HEIGHT
1189
21-Mar-2023
10:17
linh
pham

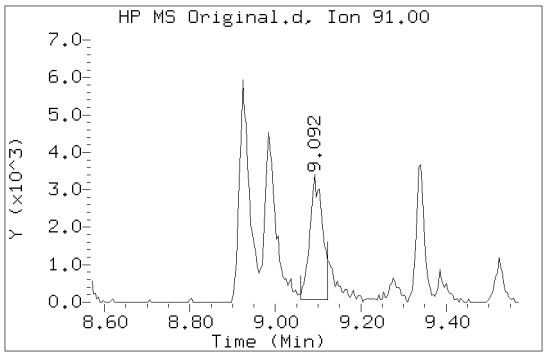


4-Chlorotoluene (106-43-4)

Reason Code:

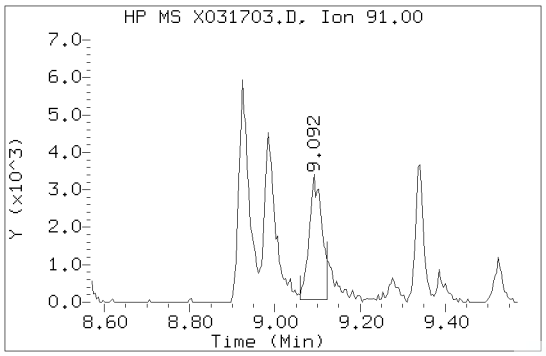
BEFORE

MASS
91
AREA
6930
HEIGHT
3355
21-Mar-2023
10:17
linh
pham



AFTER

MASS
91
AREA
6930
HEIGHT
3355
21-Mar-2023
10:17
linh
pham



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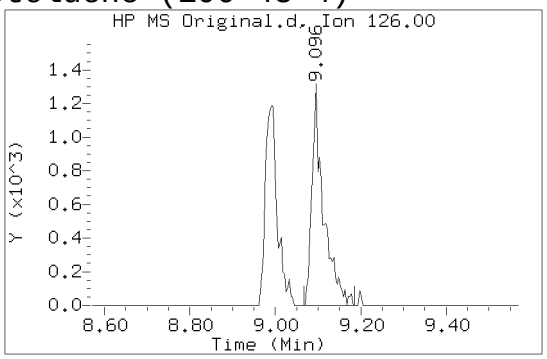
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

4-Chlorotoluene (106-43-4)

Reason Code:

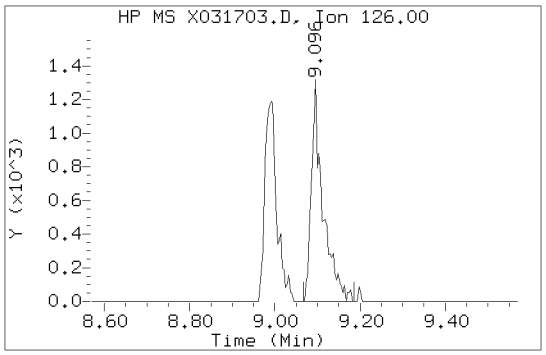
BEFORE

MASS
126
AREA
2481
HEIGHT
1318
21-Mar-2023
10:17
linh
pham



AFTER

MASS
126
AREA
2481
HEIGHT
1318
21-Mar-2023
10:17
linh
pham

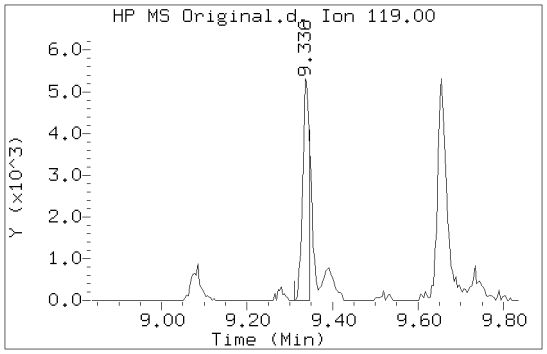


tert-Butylbenzene (98-06-6)

Reason Code:

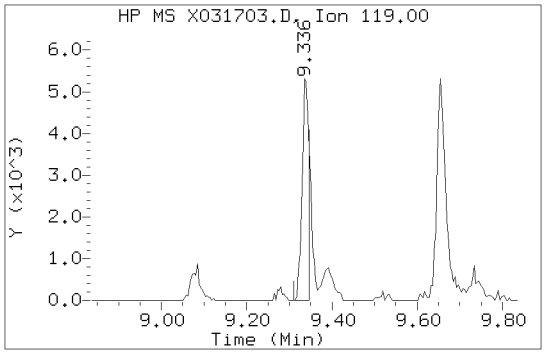
BEFORE

MASS
119
AREA
5974
HEIGHT
5313
21-Mar-2023
10:17
linh
pham



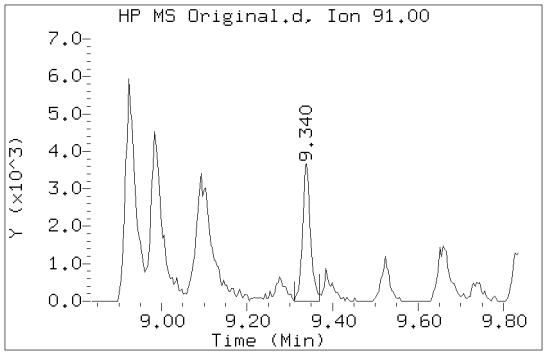
AFTER

MASS
119
AREA
5974
HEIGHT
5313
21-Mar-2023
10:17
linh
pham



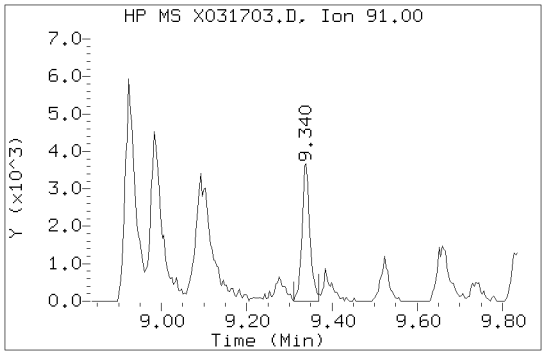
BEFORE

MASS
91
AREA
4890
HEIGHT
3664
21-Mar-2023
10:17
linh
pham



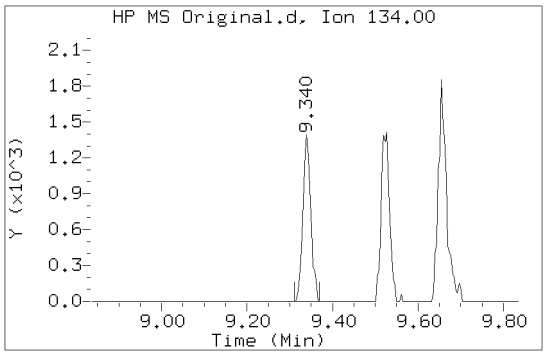
AFTER

MASS
91
AREA
4890
HEIGHT
3664
21-Mar-2023
10:17
linh
pham



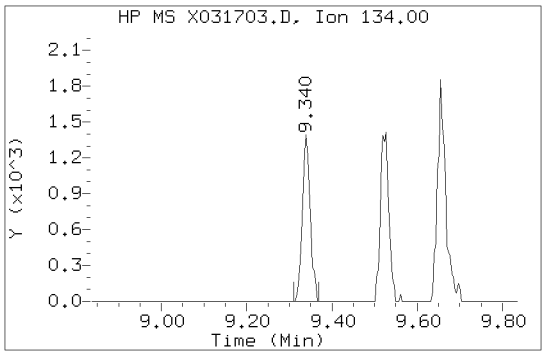
BEFORE

MASS
134
AREA
1839
HEIGHT
1394
21-Mar-2023
10:17
linh
pham



AFTER

MASS
134
AREA
1839
HEIGHT
1394
21-Mar-2023
10:17
linh
pham



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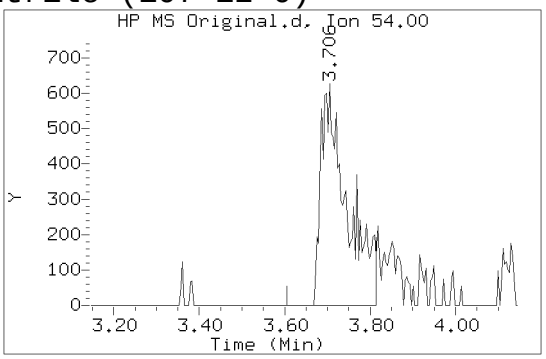
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

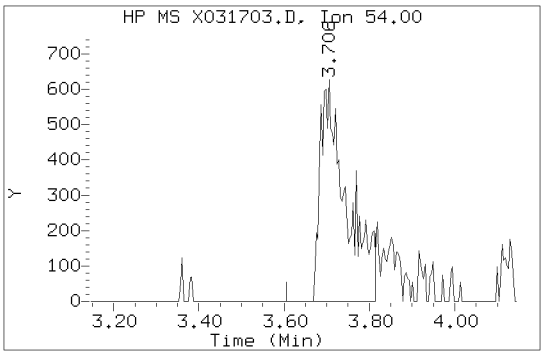
Propionitrile (107-12-0)

Reason Code:

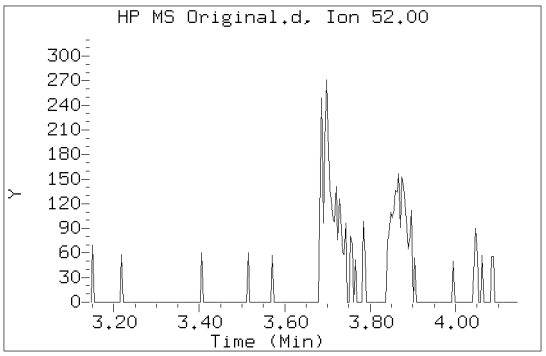
BEFORE
MASS
54
AREA
2634
HEIGHT
627
21-Mar-2023
10:17
linh
pham



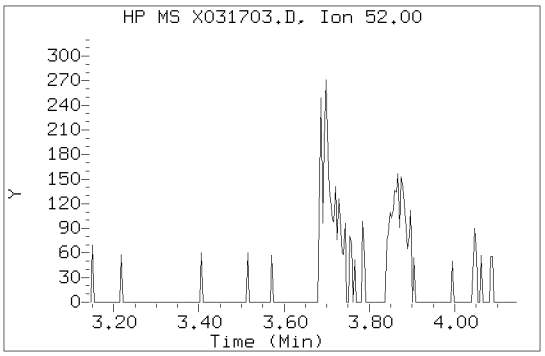
AFTER
MASS
54
AREA
2634
HEIGHT
627
21-Mar-2023
10:17
linh
pham



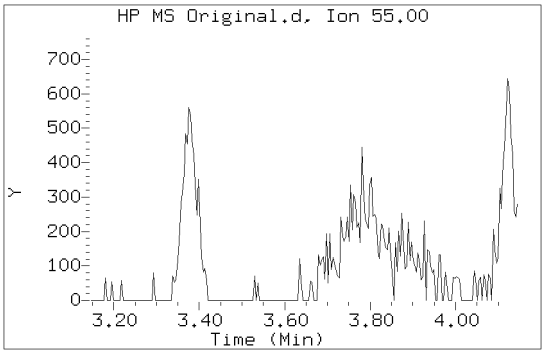
BEFORE
MASS
52
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



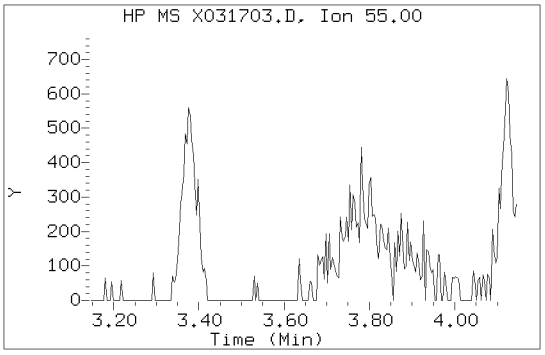
AFTER
MASS
52
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
55
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



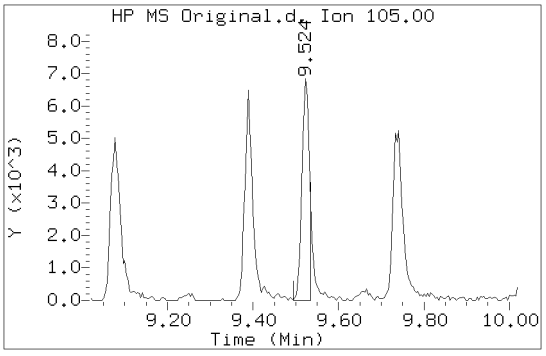
AFTER
MASS
55
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



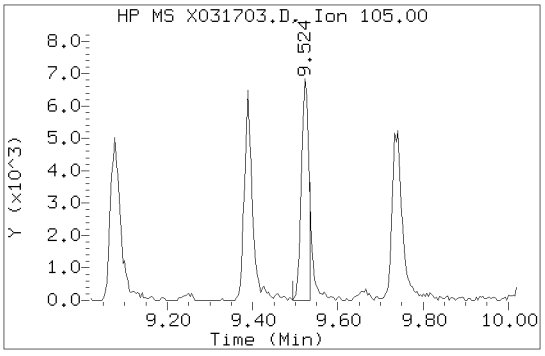
sec-Butylbenzene (135-98-8)

Reason Code:

BEFORE
MASS
105
AREA
8361
HEIGHT
6842
21-Mar-2023
10:17
linh
pham



AFTER
MASS
105
AREA
8361
HEIGHT
6842
21-Mar-2023
10:17
linh
pham



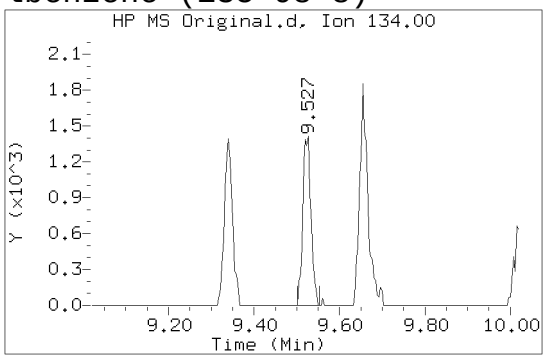
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

sec-Butylbenzene (135-98-8)

Reason Code:

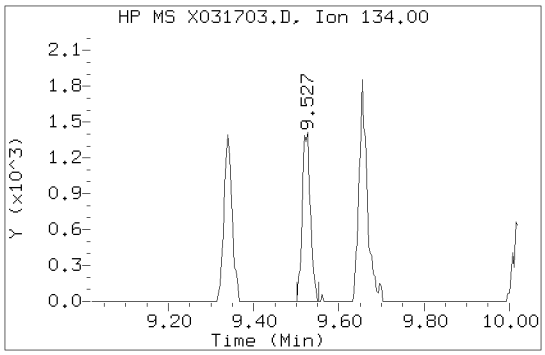
BEFORE

MASS
134
AREA
1938
HEIGHT
1416
21-Mar-2023
10:17
linh
pham



AFTER

MASS
134
AREA
1938
HEIGHT
1416
21-Mar-2023
10:17
linh
pham



p-Isopropyltoluene (99-87-6)

Reason Code:

BEFORE

MASS
119
AREA
6920
HEIGHT
5256
21-Mar-2023
10:17
linh
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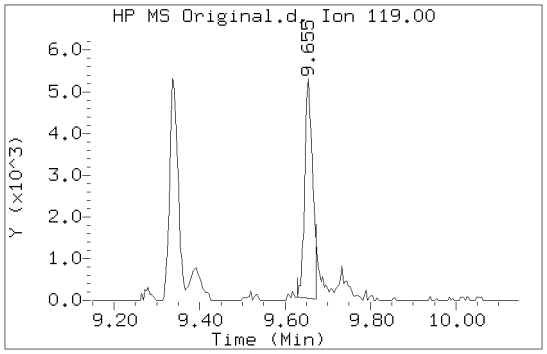

AFTER

MASS
119
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6920
HEIGHT
5256
21-Mar-2023
10:17
linh
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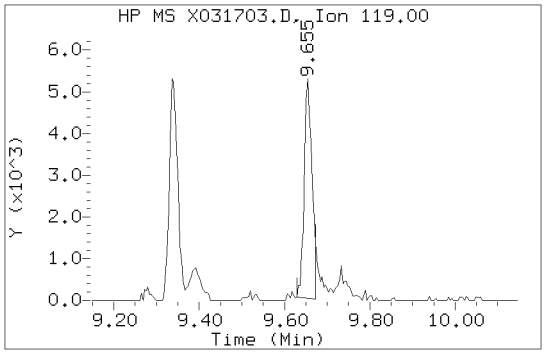

BEFORE

MASS
134
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1854
21-Mar-2023
10:17
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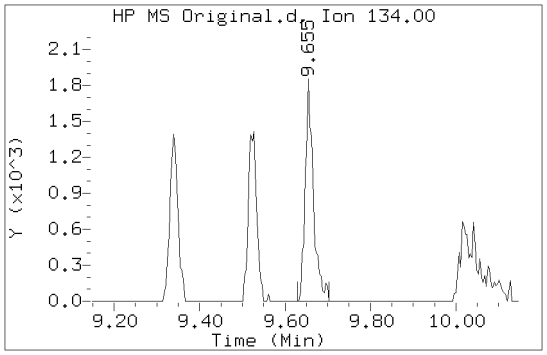

AFTER

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21-Mar-2023
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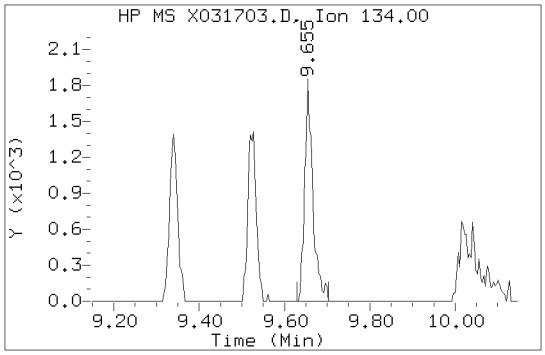

BEFORE

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2967
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21-Mar-2023
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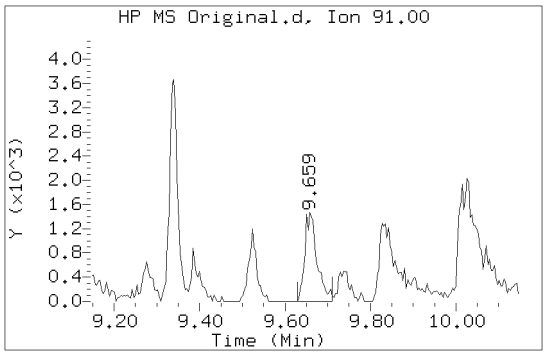

AFTER

MASS
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2967
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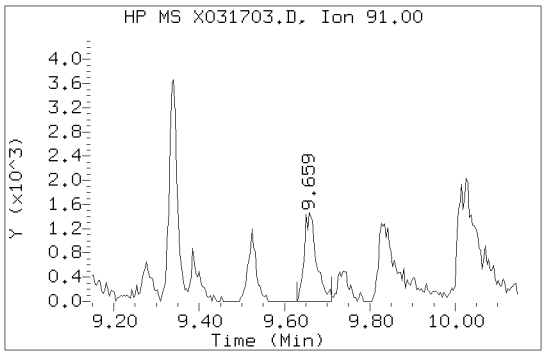
21-Mar-2023
10:17
linh
pham



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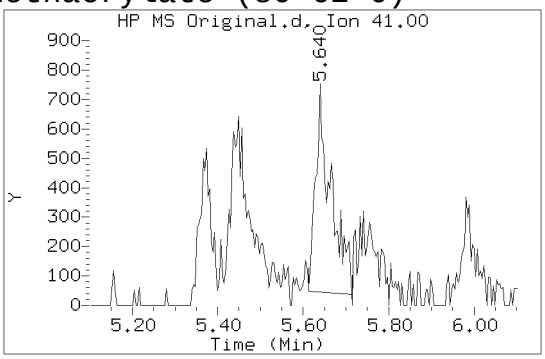
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Methyl Methacrylate (80-62-6)

Reason Code:

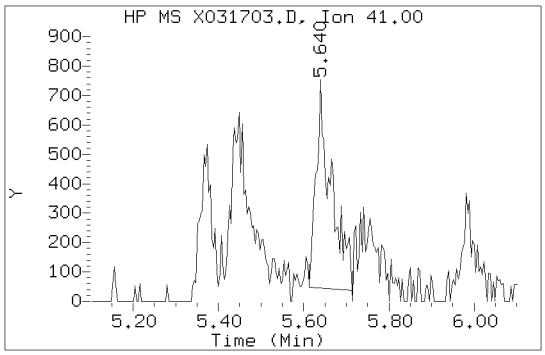
BEFORE

MASS
41
AREA
1737
HEIGHT
709
21-Mar-2023
10:17
linh
pham



AFTER

MASS
41
AREA
1737
HEIGHT
709
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
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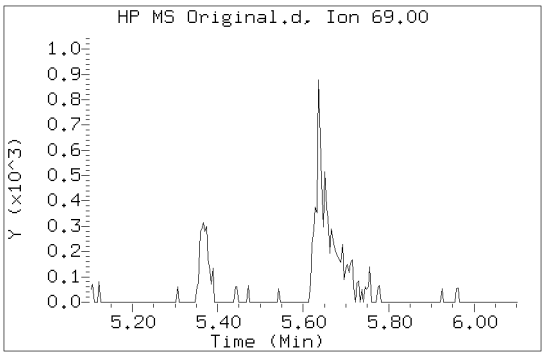
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

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69
AREA
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0
21-Mar-2023
10:17
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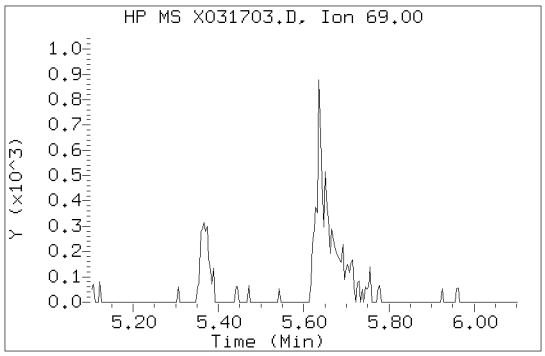

BEFORE

MASS
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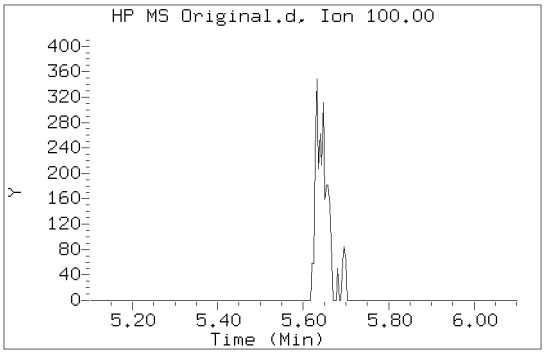
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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AREA
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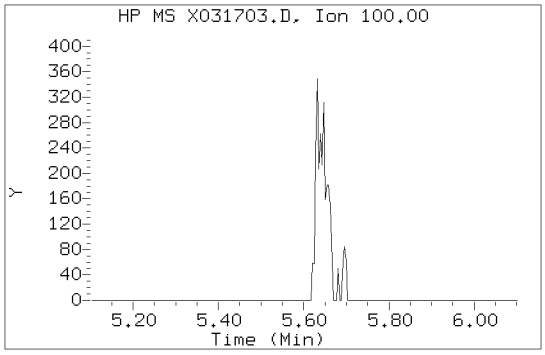
HEIGHT
0
21-Mar-2023
10:17
linh
pham

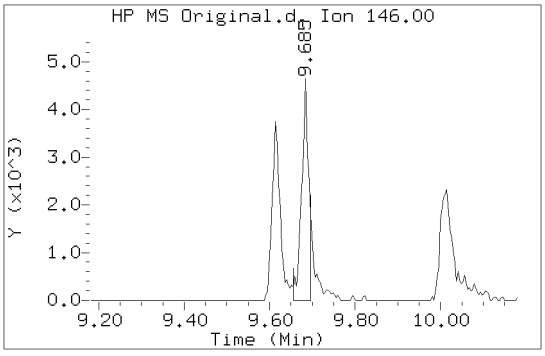


1,4-Dichlorobenzene (106-46-7)

Reason Code:

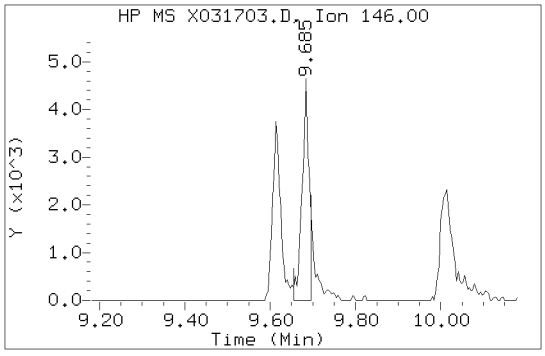
BEFORE

MASS
146
AREA
5378
HEIGHT
4645
21-Mar-2023
10:17
linh
pham



AFTER

MASS
146
AREA
5378
HEIGHT
4645
21-Mar-2023
10:17
linh
pham



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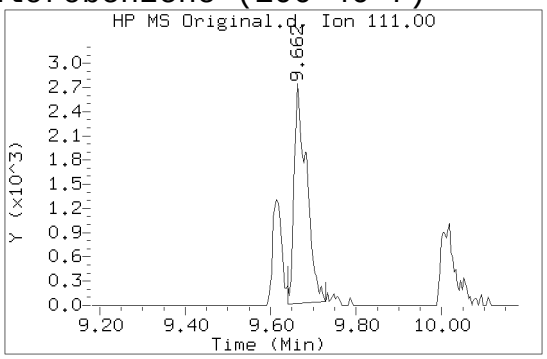
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,4-Dichlorobenzene (106-46-7)

Reason Code:

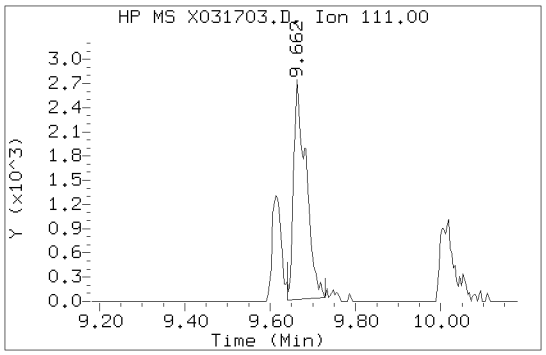
BEFORE

MASS
111
AREA
5585
HEIGHT
2720
21-Mar-2023
10:17
linh
pham



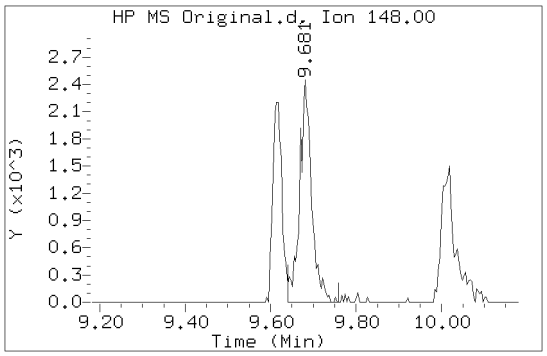
AFTER

MASS
111
AREA
5585
HEIGHT
2720
21-Mar-2023
10:17
linh
pham



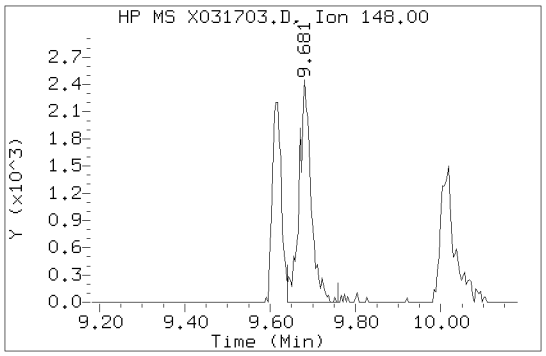
BEFORE

MASS
148
AREA
4886
HEIGHT
2449
21-Mar-2023
10:17
linh
pham



AFTER

MASS
148
AREA
4886
HEIGHT
2449
21-Mar-2023
10:17
linh
pham

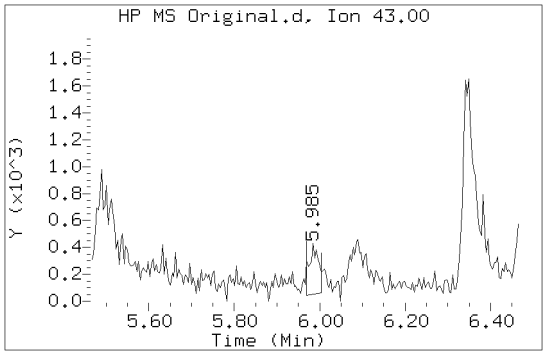


2-Nitropropane (79-46-9)

Reason Code:

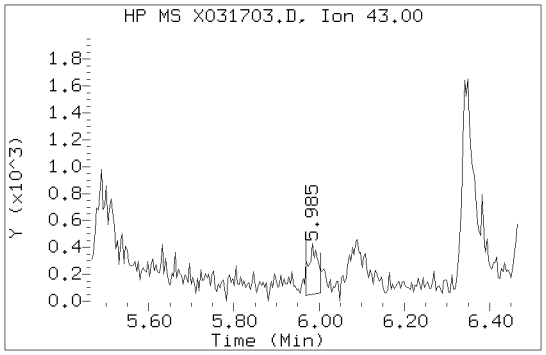
BEFORE

MASS
43
AREA
573
HEIGHT
377
21-Mar-2023
10:17
linh
pham



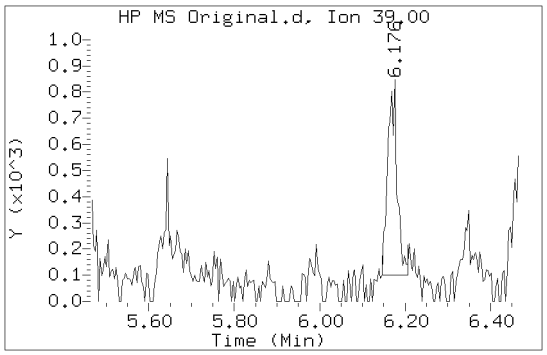
AFTER

MASS
43
AREA
573
HEIGHT
377
21-Mar-2023
10:17
linh
pham



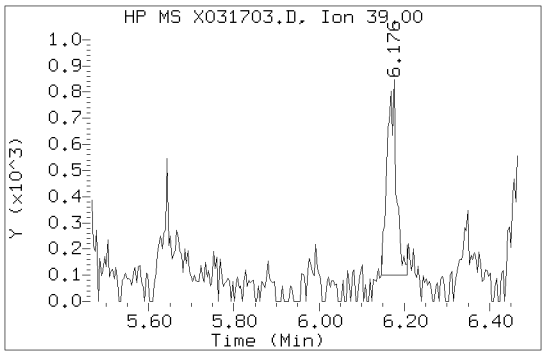
BEFORE

MASS
39
AREA
1112
HEIGHT
746
21-Mar-2023
10:17
linh
pham



AFTER

MASS
39
AREA
1112
HEIGHT
746
21-Mar-2023
10:17
linh
pham



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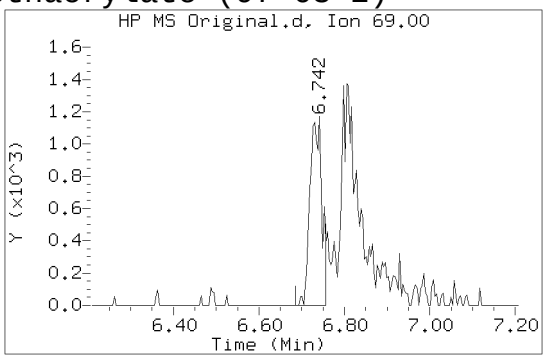
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Ethyl Methacrylate (97-63-2)

Reason Code:

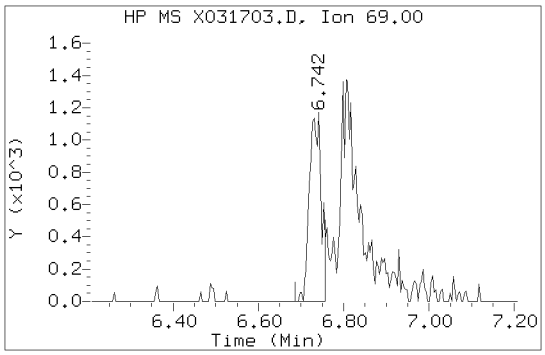
BEFORE

MASS
69
AREA
2259
HEIGHT
1173
21-Mar-2023
10:17
linh
pham



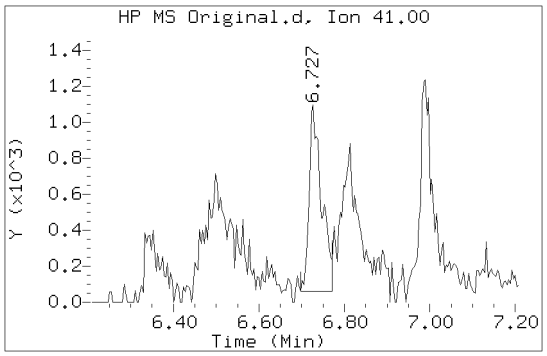
AFTER

MASS
69
AREA
2259
HEIGHT
1173
21-Mar-2023
10:17
linh
pham



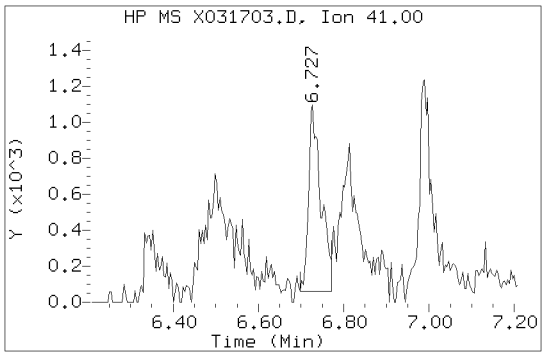
BEFORE

MASS
41
AREA
2098
HEIGHT
1037
21-Mar-2023
10:17
linh
pham



AFTER

MASS
41
AREA
2098
HEIGHT
1037
21-Mar-2023
10:17
linh
pham

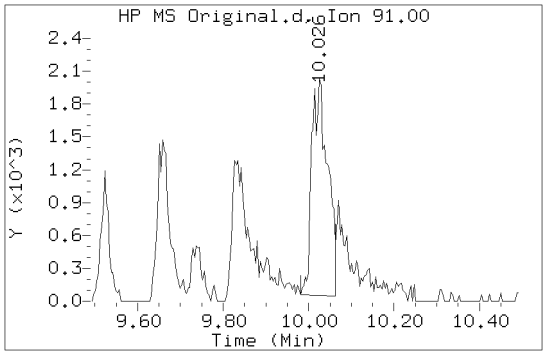


n-Butylbenzene (104-51-8)

Reason Code:

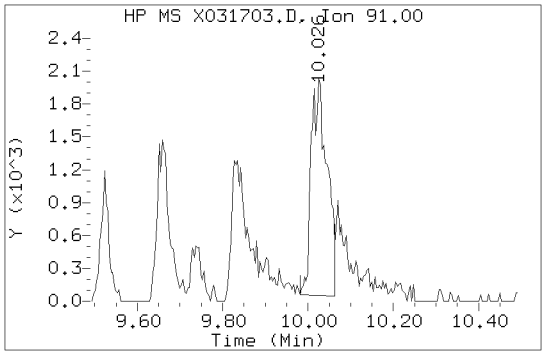
BEFORE

MASS
91
AREA
5143
HEIGHT
1977
21-Mar-2023
10:17
linh
pham



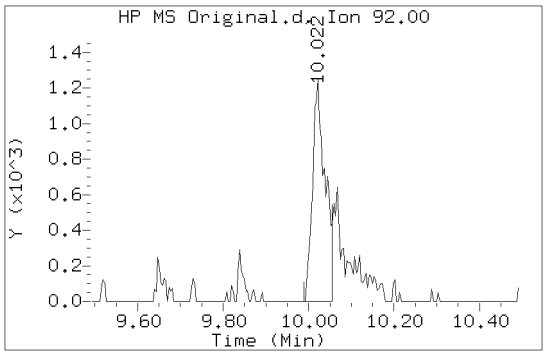
AFTER

MASS
91
AREA
5143
HEIGHT
1977
21-Mar-2023
10:17
linh
pham



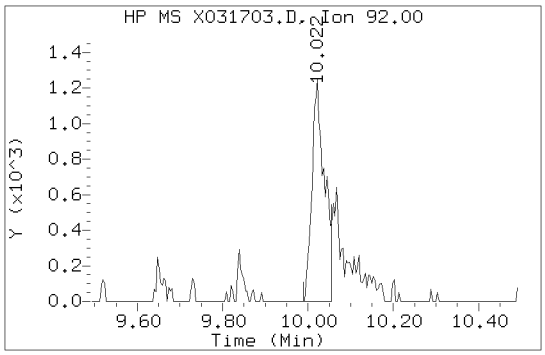
BEFORE

MASS
92
AREA
2581
HEIGHT
1247
21-Mar-2023
10:17
linh
pham



AFTER

MASS
92
AREA
2581
HEIGHT
1247
21-Mar-2023
10:17
linh
pham



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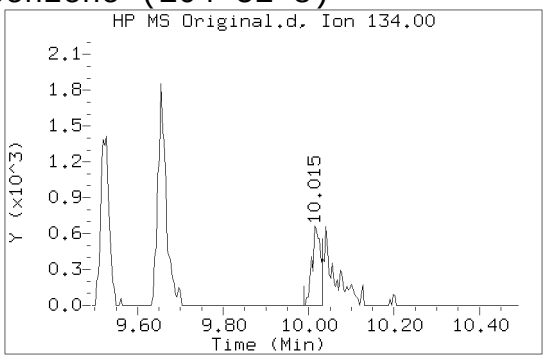
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

n-Butylbenzene (104-51-8)

Reason Code:

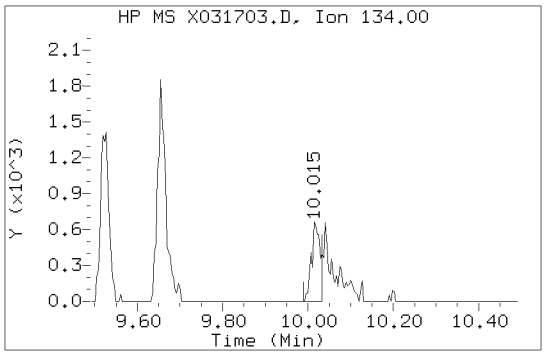
BEFORE

MASS
134
AREA
950
HEIGHT
663
21-Mar-2023
10:17
linh
pham



AFTER

MASS
134
AREA
950
HEIGHT
663
21-Mar-2023
10:17
linh
pham

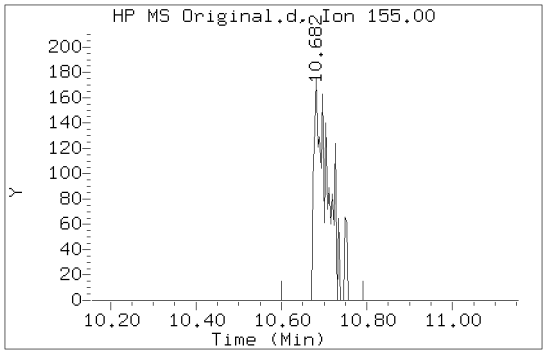


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

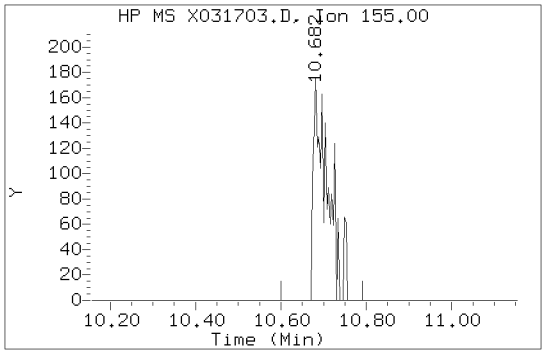
BEFORE

MASS
155
AREA
405
HEIGHT
175
21-Mar-2023
10:17
linh
pham



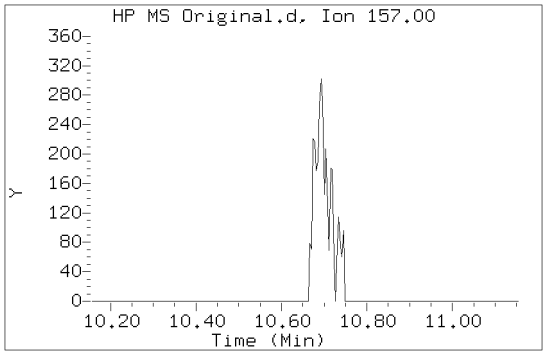
AFTER

MASS
155
AREA
405
HEIGHT
175
21-Mar-2023
10:17
linh
pham



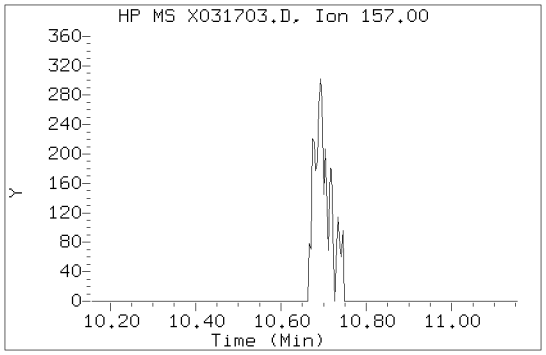
BEFORE

MASS
157
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



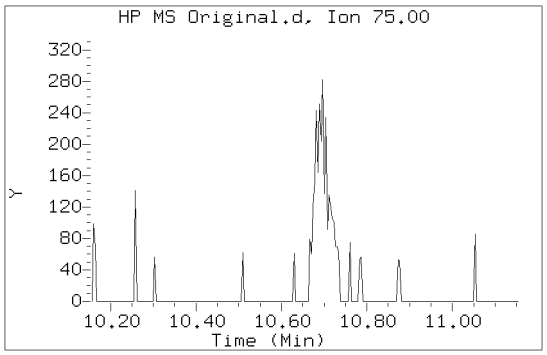
AFTER

MASS
157
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



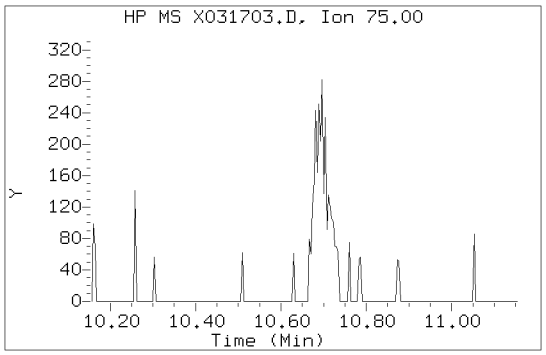
BEFORE

MASS
75
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
75
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



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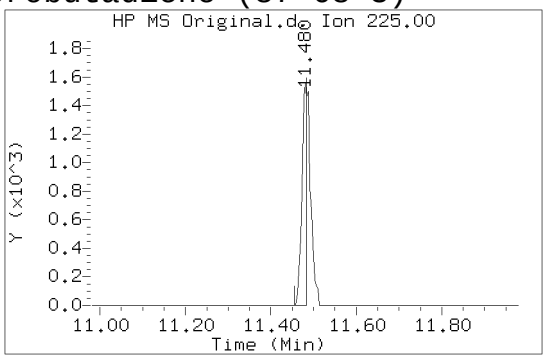
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Hexachlorobutadiene (87-68-3)

Reason Code:

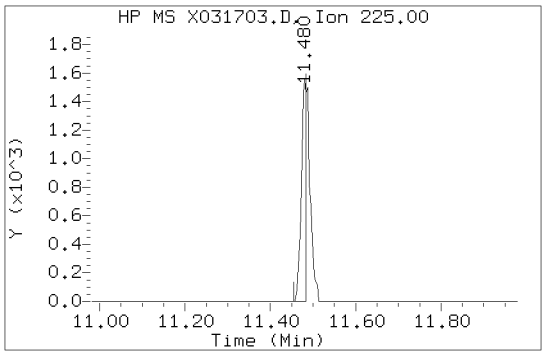
BEFORE

MASS
225
AREA
1367
HEIGHT
1553
21-Mar-2023
10:17
linh
pham



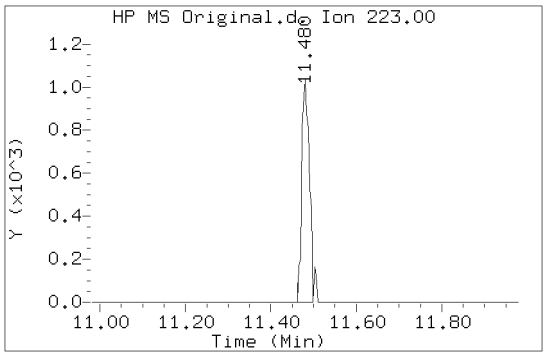
AFTER

MASS
225
AREA
1367
HEIGHT
1553
21-Mar-2023
10:17
linh
pham



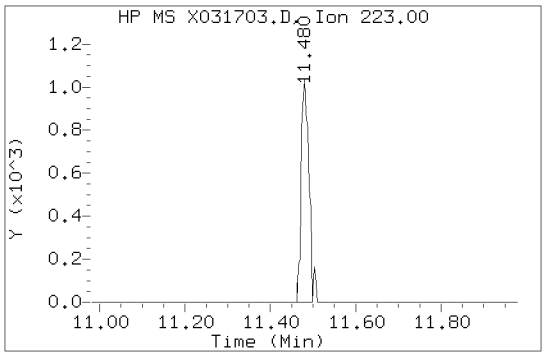
BEFORE

MASS
223
AREA
1310
HEIGHT
1034
21-Mar-2023
10:17
linh
pham



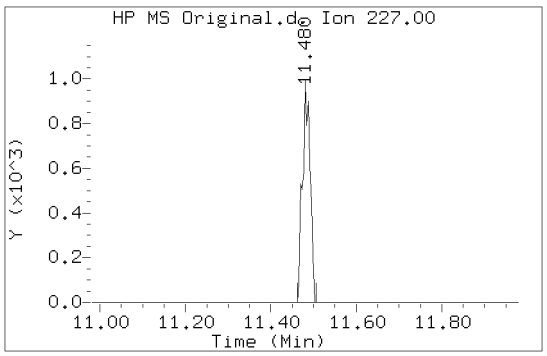
AFTER

MASS
223
AREA
1310
HEIGHT
1034
21-Mar-2023
10:17
linh
pham



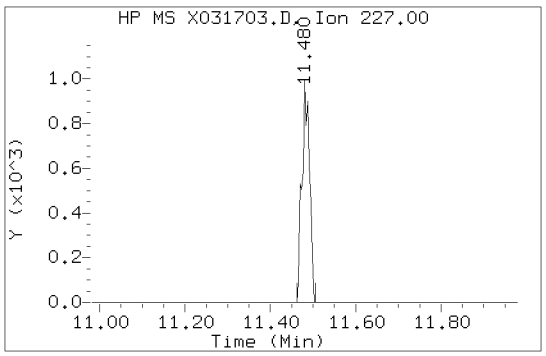
BEFORE

MASS
227
AREA
1275
HEIGHT
992
21-Mar-2023
10:17
linh
pham



AFTER

MASS
227
AREA
1275
HEIGHT
992
21-Mar-2023
10:17
linh
pham

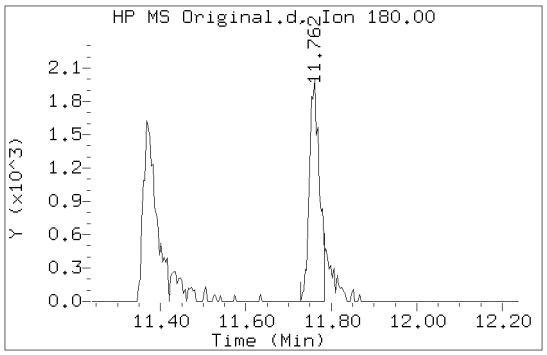


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

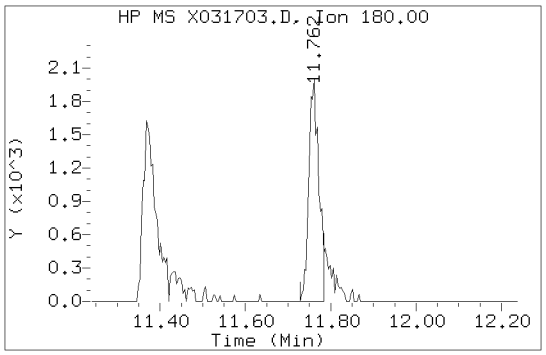
BEFORE

MASS
180
AREA
3277
HEIGHT
1996
21-Mar-2023
10:17
linh
pham



AFTER

MASS
180
AREA
3277
HEIGHT
1996
21-Mar-2023
10:17
linh
pham



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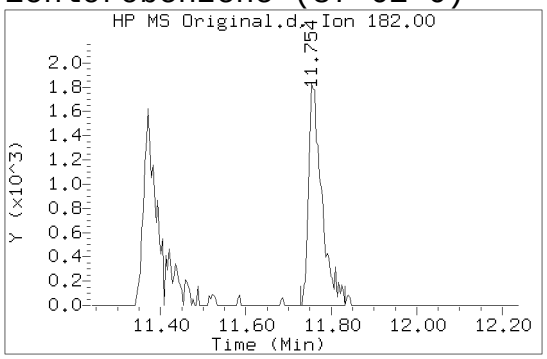
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

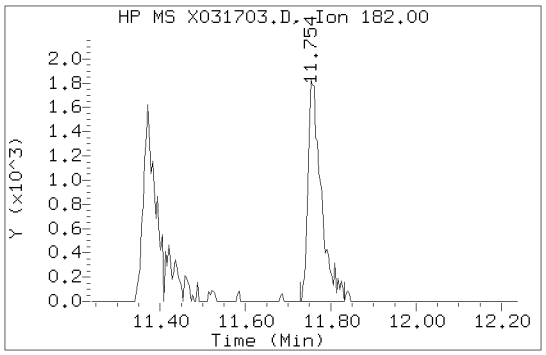
BEFORE

MASS
182
AREA
3920
HEIGHT
1829
21-Mar-2023
10:17
linh
pham



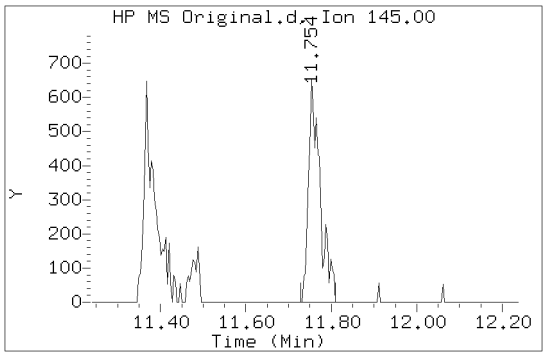
AFTER

MASS
182
AREA
3920
HEIGHT
1829
21-Mar-2023
10:17
linh
pham



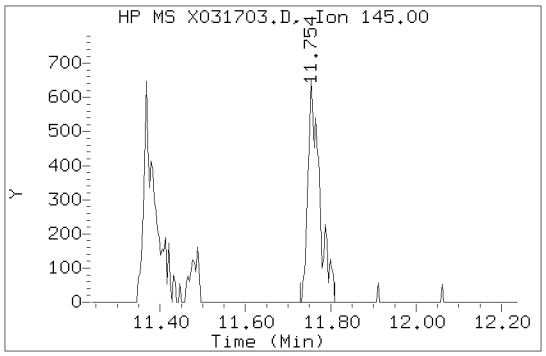
BEFORE

MASS
145
AREA
1233
HEIGHT
651
21-Mar-2023
10:17
linh
pham



AFTER

MASS
145
AREA
1233
HEIGHT
651
21-Mar-2023
10:17
linh
pham

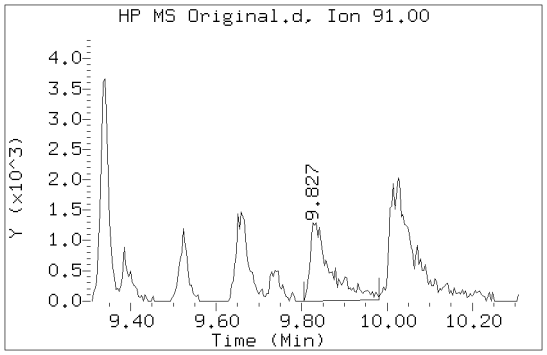


Benzyl Chloride (100-44-7)

Reason Code:

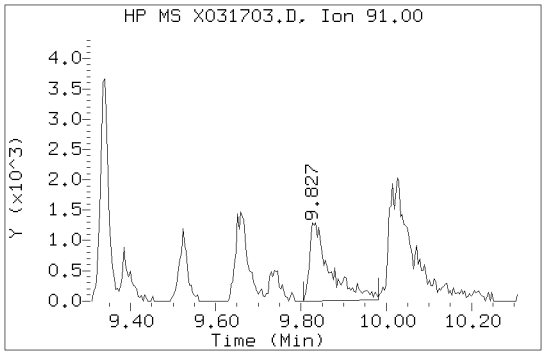
BEFORE

MASS
91
AREA
4324
HEIGHT
1287
21-Mar-2023
10:17
linh
pham



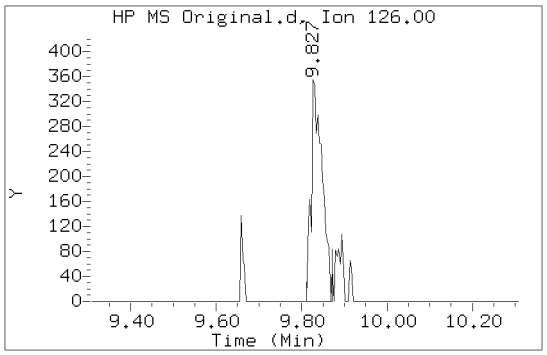
AFTER

MASS
91
AREA
4324
HEIGHT
1287
21-Mar-2023
10:17
linh
pham



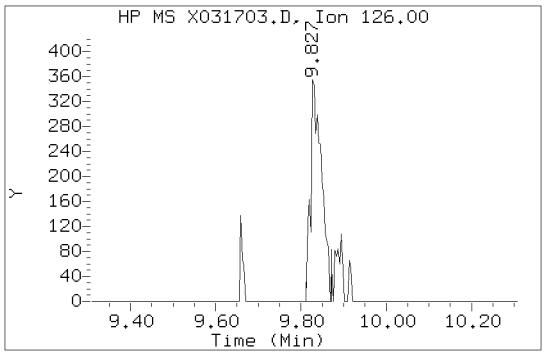
BEFORE

MASS
126
AREA
647
HEIGHT
355
21-Mar-2023
10:17
linh
pham



AFTER

MASS
126
AREA
647
HEIGHT
355
21-Mar-2023
10:17
linh
pham



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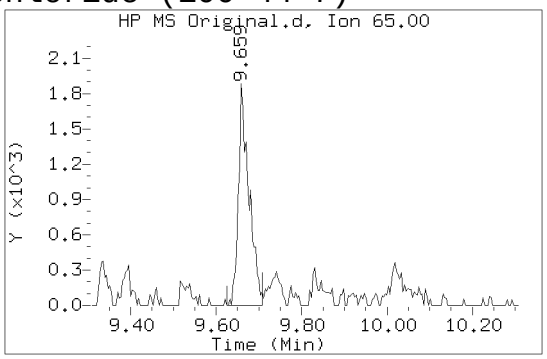
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Benzyl Chloride (100-44-7)

Reason Code:

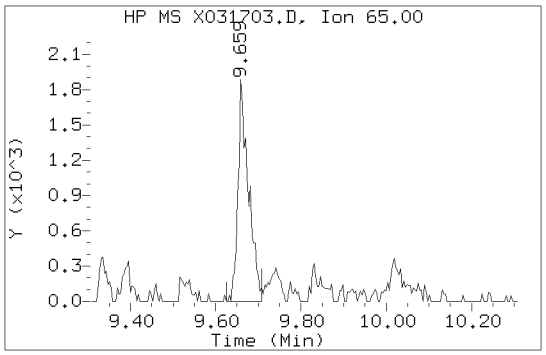
BEFORE

MASS
65
AREA
3227
HEIGHT
1885
21-Mar-2023
10:17
linh
pham



AFTER

MASS
65
AREA
3227
HEIGHT
1885
21-Mar-2023
10:17
linh
pham

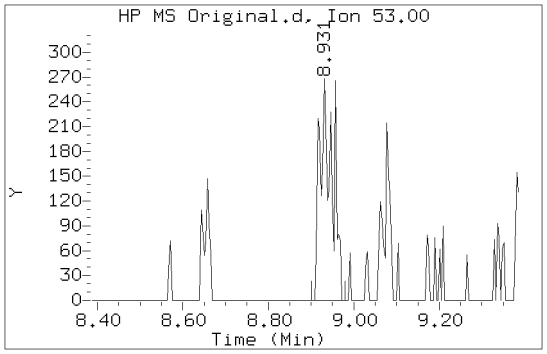


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

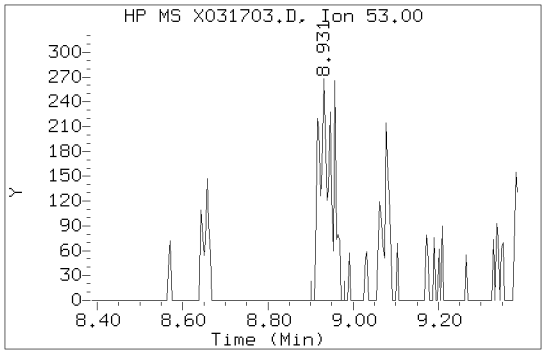
BEFORE

MASS
53
AREA
541
HEIGHT
268
21-Mar-2023
10:17
linh
pham



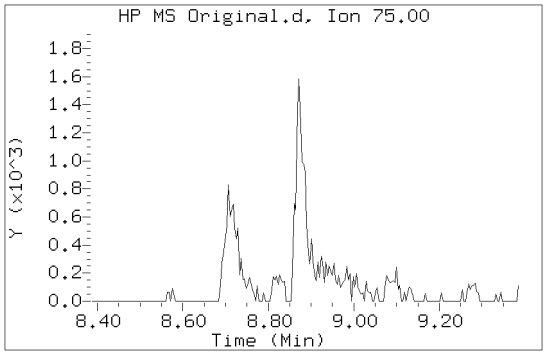
AFTER

MASS
53
AREA
541
HEIGHT
268
21-Mar-2023
10:17
linh
pham



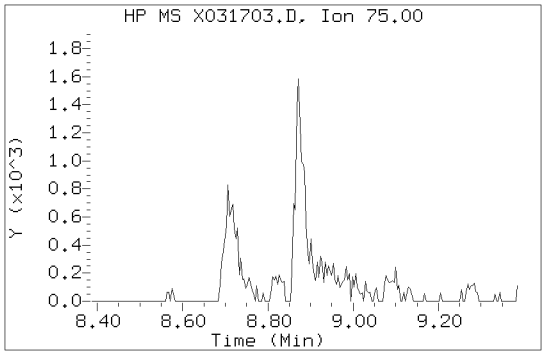
BEFORE

MASS
75
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
75
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

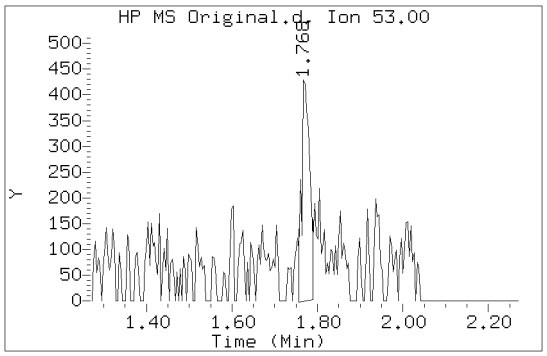


Chloroprene (126-99-8)

Reason Code:

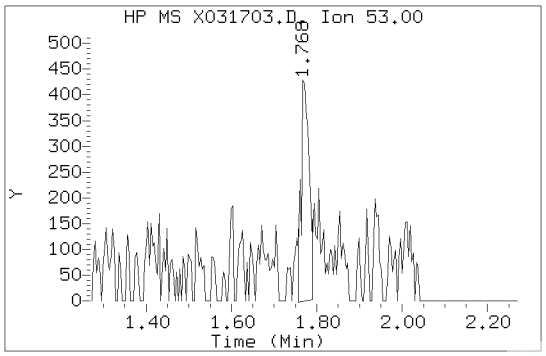
BEFORE

MASS
53
AREA
581
HEIGHT
429
21-Mar-2023
10:17
linh
pham



AFTER

MASS
53
AREA
581
HEIGHT
429
21-Mar-2023
10:17
linh
pham



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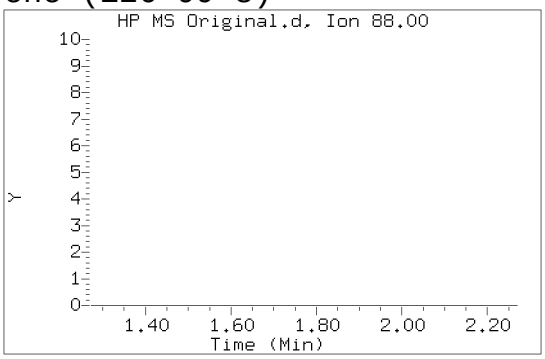
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Chloroprene (126-99-8)

Reason Code:

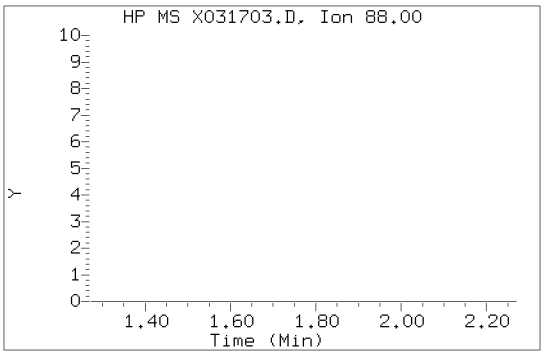
BEFORE

MASS
88
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

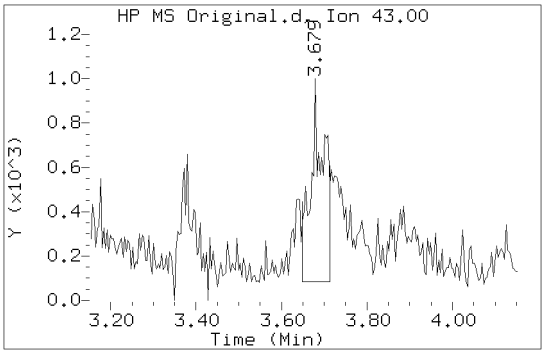


Ethyl Acetate (141-78-6)

Reason Code:

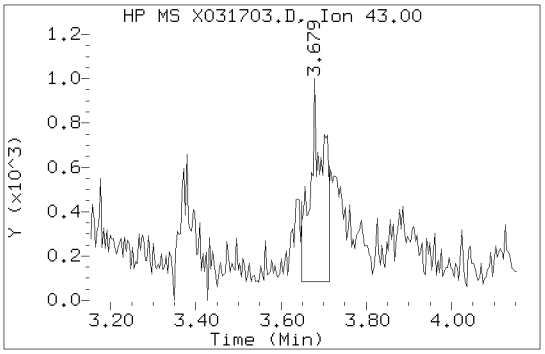
BEFORE

MASS
43
AREA
1988
HEIGHT
916
21-Mar-2023
10:17
linh
pham



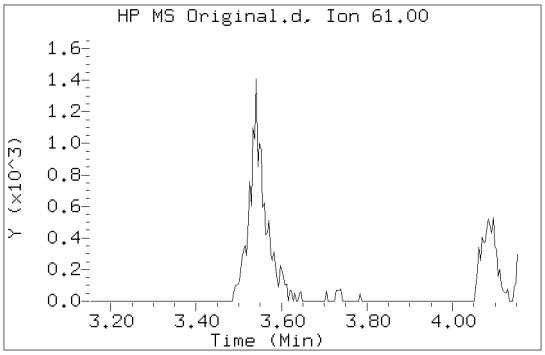
AFTER

MASS
43
AREA
1988
HEIGHT
916
21-Mar-2023
10:17
linh
pham



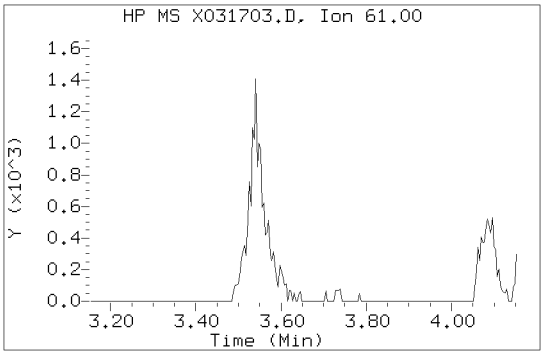
BEFORE

MASS
61
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



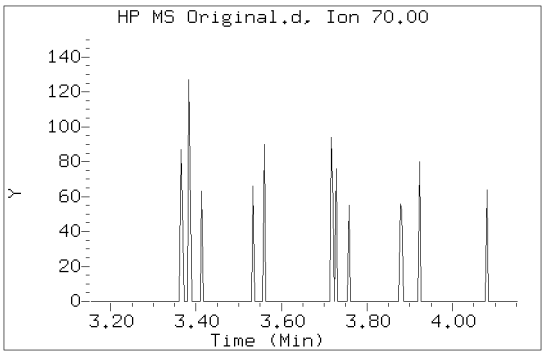
AFTER

MASS
61
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



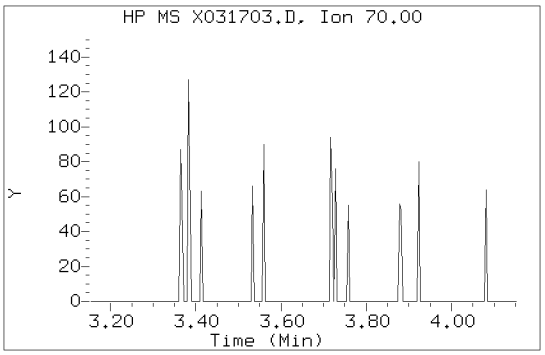
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
70
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



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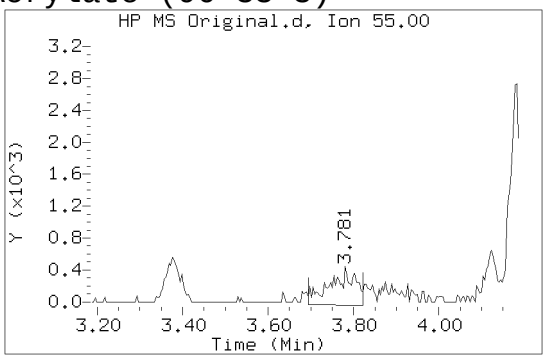
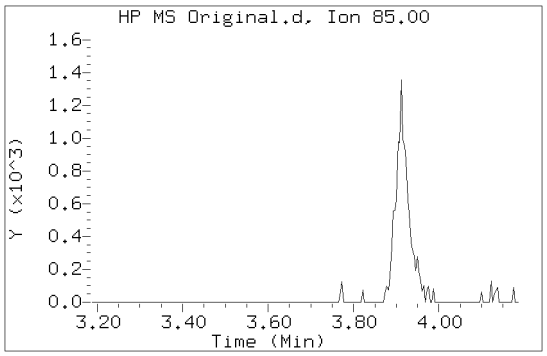
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Methyl Acrylate (96-33-3)

BEFORE
MASS
55
AREA
1927
HEIGHT
487
21-Mar-2023
10:17
linh
pham

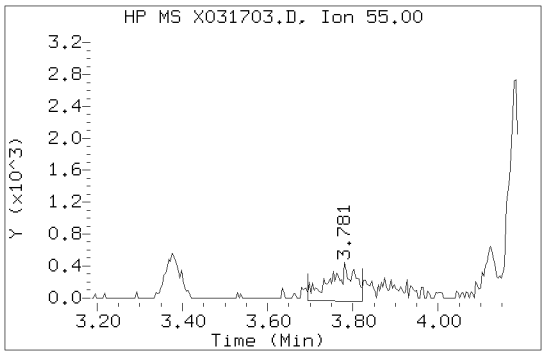


BEFORE
MASS
85
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

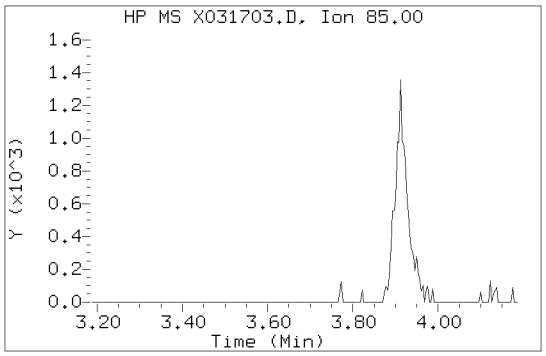


Reason Code:

AFTER
MASS
55
AREA
1927
HEIGHT
487
21-Mar-2023
10:17
linh
pham

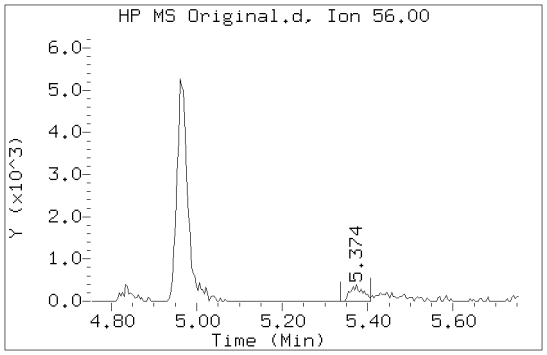


AFTER
MASS
85
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

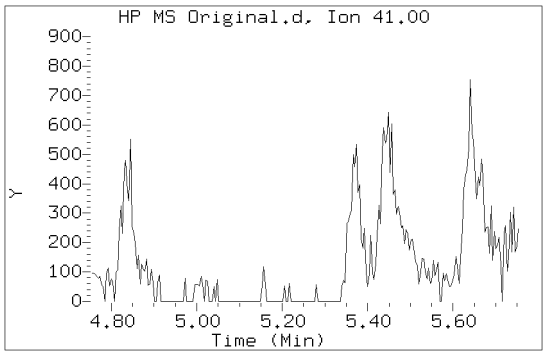


n-Butanol (71-36-3)

BEFORE
MASS
56
AREA
783
HEIGHT
391
21-Mar-2023
10:17
linh
pham

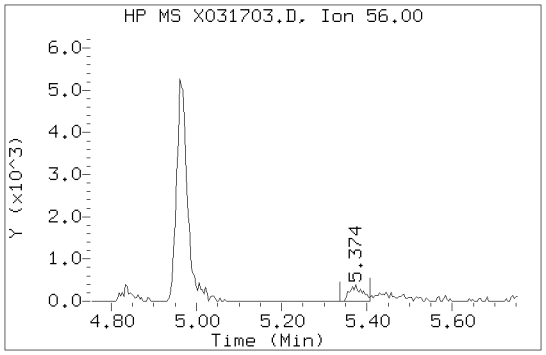


BEFORE
MASS
41
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

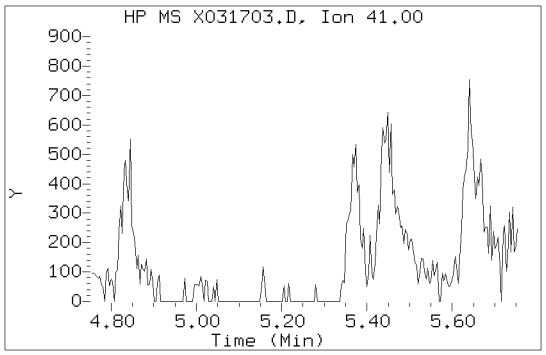


Reason Code:

AFTER
MASS
56
AREA
783
HEIGHT
391
21-Mar-2023
10:17
linh
pham



AFTER
MASS
41
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



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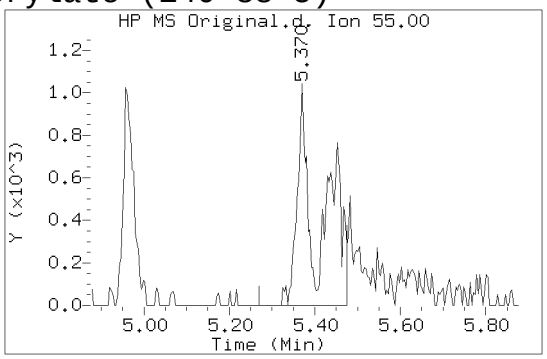
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Ethyl Acrylate (140-88-5)

Reason Code:

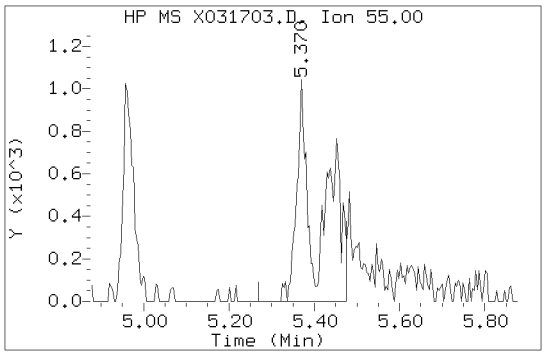
BEFORE

MASS
55
AREA
3644
HEIGHT
1043
21-Mar-2023
10:17
linh
pham



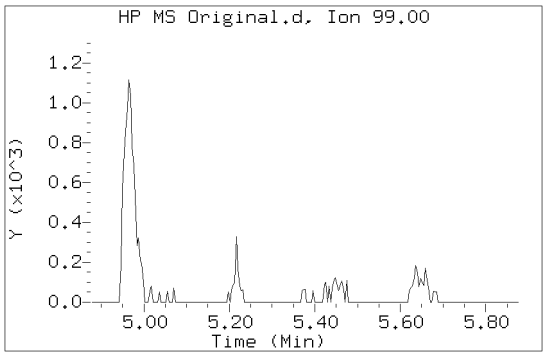
AFTER

MASS
55
AREA
3644
HEIGHT
1043
21-Mar-2023
10:17
linh
pham



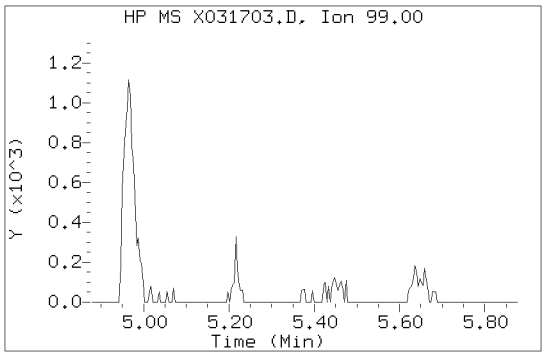
BEFORE

MASS
99
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
99
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

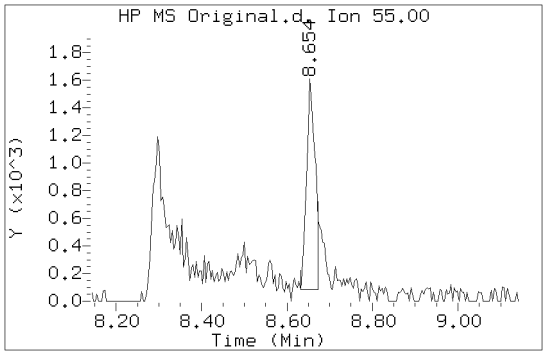


Cyclohexanone (108-94-1)

Reason Code:

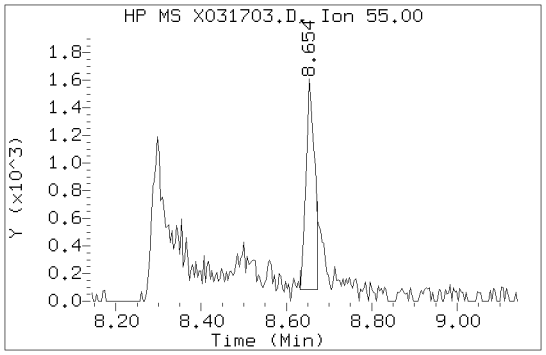
BEFORE

MASS
55
AREA
2126
HEIGHT
1526
21-Mar-2023
10:17
linh
pham



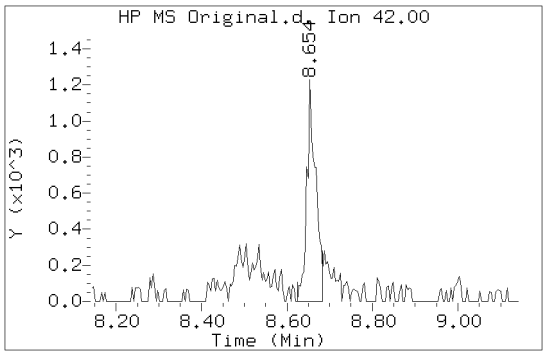
AFTER

MASS
55
AREA
2126
HEIGHT
1526
21-Mar-2023
10:17
linh
pham



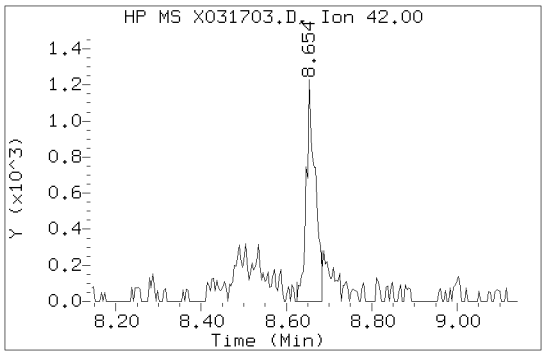
BEFORE

MASS
42
AREA
1788
HEIGHT
1229
21-Mar-2023
10:17
linh
pham



AFTER

MASS
42
AREA
1788
HEIGHT
1229
21-Mar-2023
10:17
linh
pham



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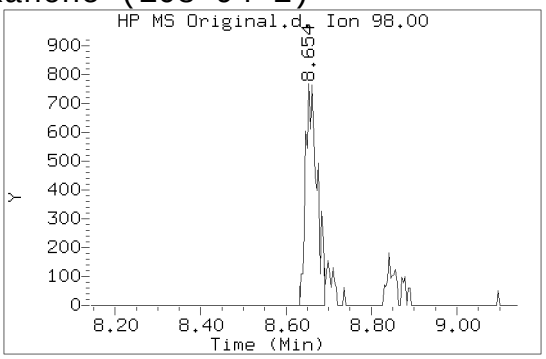
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Cyclohexanone (108-94-1)

Reason Code:

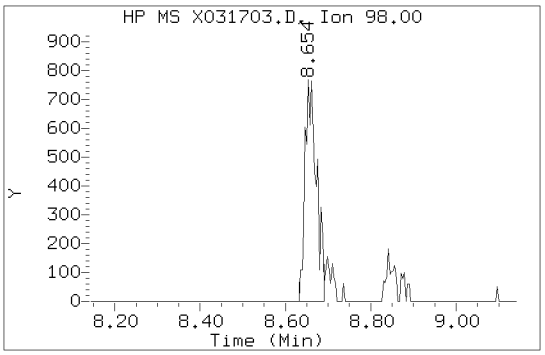
BEFORE

MASS
98
AREA
1442
HEIGHT
769
21-Mar-2023
10:17
linh
pham



AFTER

MASS
98
AREA
1442
HEIGHT
769
21-Mar-2023
10:17
linh
pham

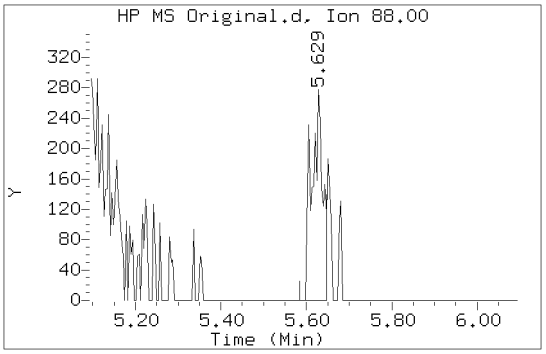


1,4-Dioxane ()

Reason Code:

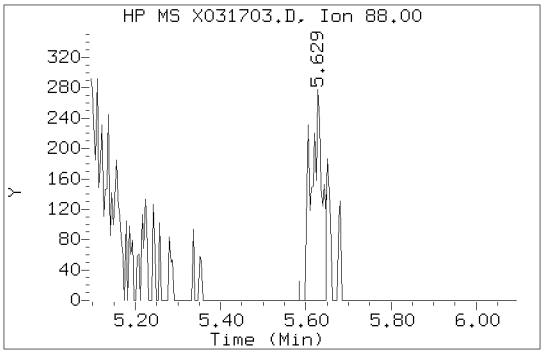
BEFORE

MASS
88
AREA
500
HEIGHT
278
21-Mar-2023
10:17
linh
pham



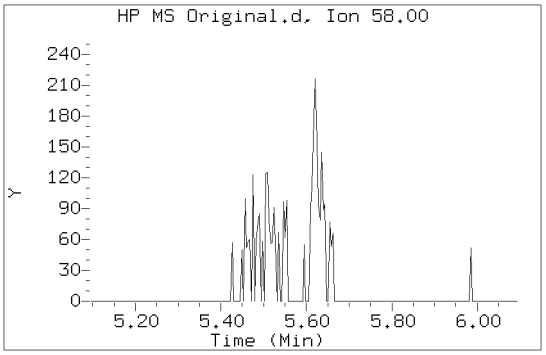
AFTER

MASS
88
AREA
500
HEIGHT
278
21-Mar-2023
10:17
linh
pham



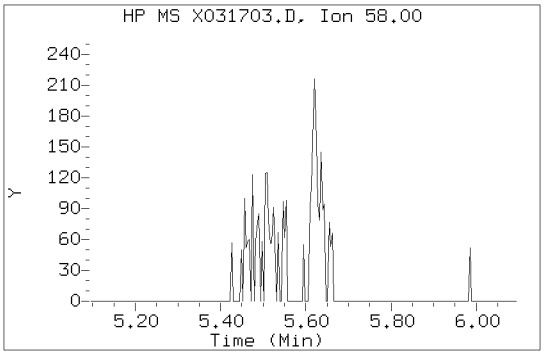
BEFORE

MASS
58
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
58
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

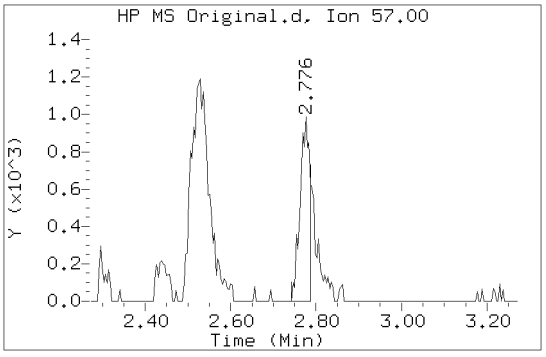


n-Hexane (110-54-3)

Reason Code:

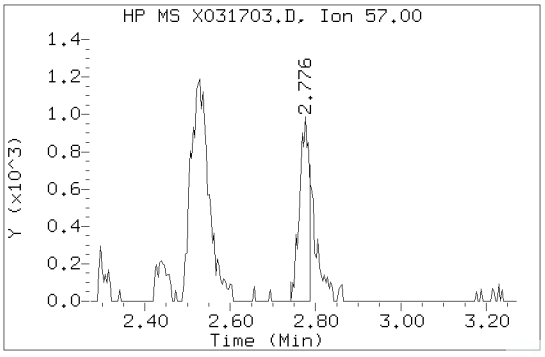
BEFORE

MASS
57
AREA
1555
HEIGHT
989
21-Mar-2023
10:17
linh
pham



AFTER

MASS
57
AREA
1555
HEIGHT
989
21-Mar-2023
10:17
linh
pham



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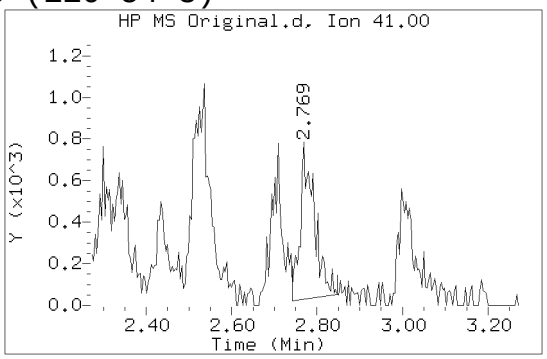
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

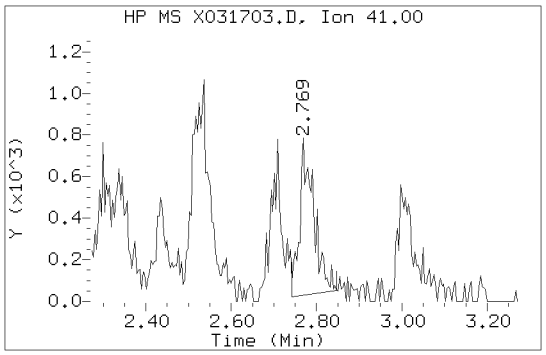
n-Hexane (110-54-3)

Reason Code:

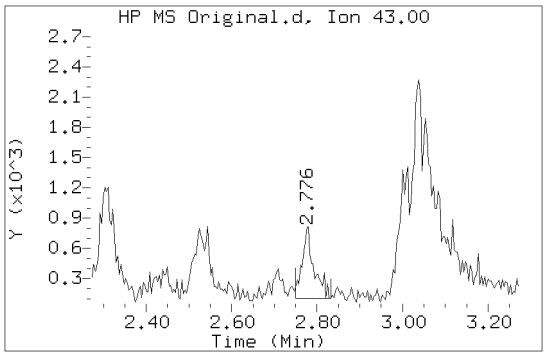
BEFORE
MASS
41
AREA
1729
HEIGHT
755
21-Mar-2023
10:17
linh
pham



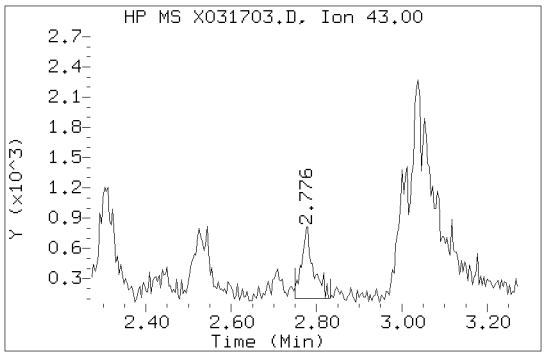
AFTER
MASS
41
AREA
1729
HEIGHT
755
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
43
AREA
1396
HEIGHT
712
21-Mar-2023
10:17
linh
pham



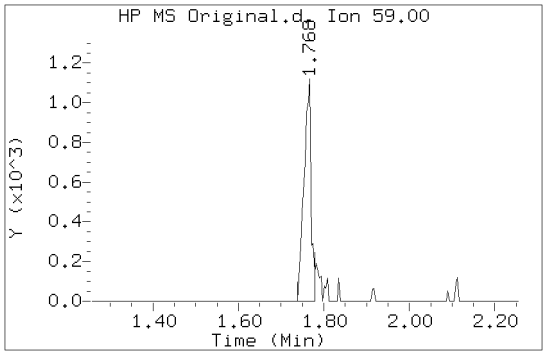
AFTER
MASS
43
AREA
1396
HEIGHT
712
21-Mar-2023
10:17
linh
pham



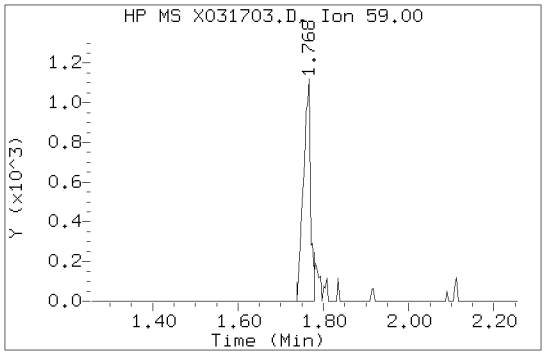
Diethyl ether (60-29-7)

Reason Code:

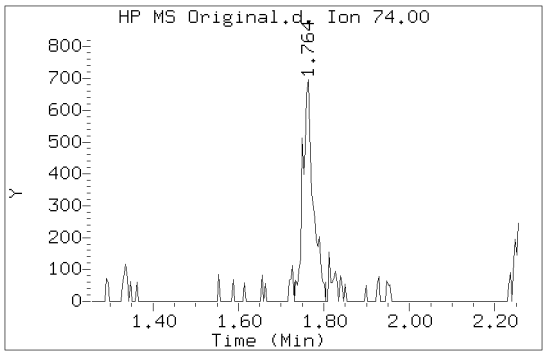
BEFORE
MASS
59
AREA
1334
HEIGHT
1120
21-Mar-2023
10:17
linh
pham



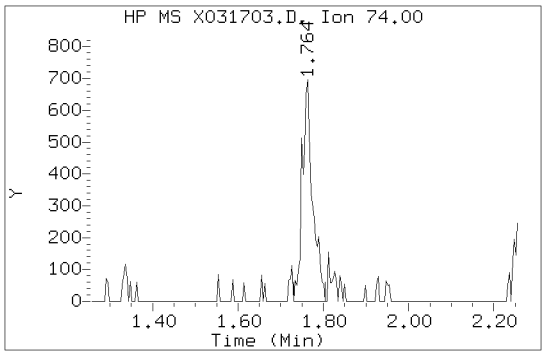
AFTER
MASS
59
AREA
1334
HEIGHT
1120
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
74
AREA
1194
HEIGHT
696
21-Mar-2023
10:17
linh
pham



AFTER
MASS
74
AREA
1194
HEIGHT
696
21-Mar-2023
10:17
linh
pham



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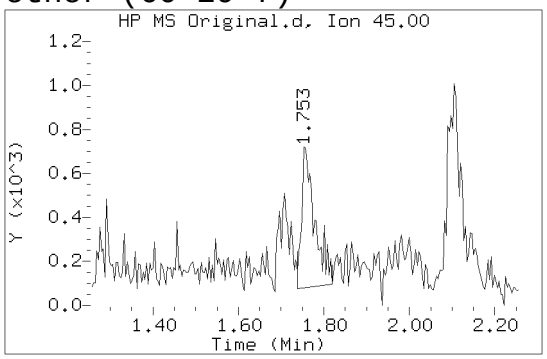
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Diethyl ether (60-29-7)

Reason Code:

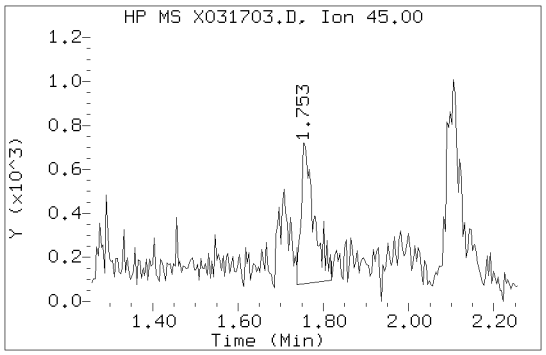
BEFORE

MASS
45
AREA
1387
HEIGHT
641
21-Mar-2023
10:17
linh
pham



AFTER

MASS
45
AREA
1387
HEIGHT
641
21-Mar-2023
10:17
linh
pham

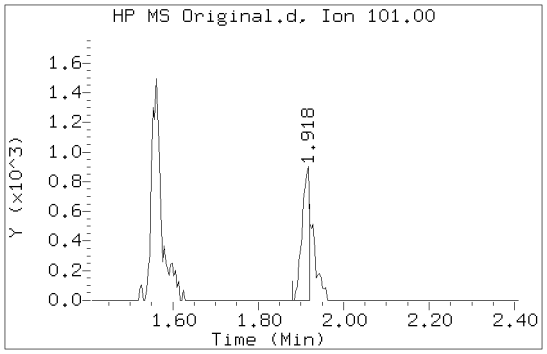


Freon TF (76-13-1)

Reason Code:

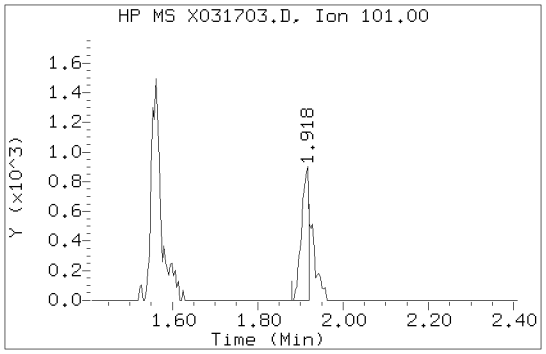
BEFORE

MASS
101
AREA
1102
HEIGHT
902
21-Mar-2023
10:17
linh
pham



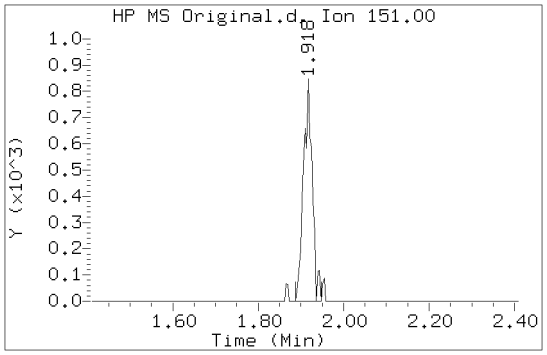
AFTER

MASS
101
AREA
1102
HEIGHT
902
21-Mar-2023
10:17
linh
pham



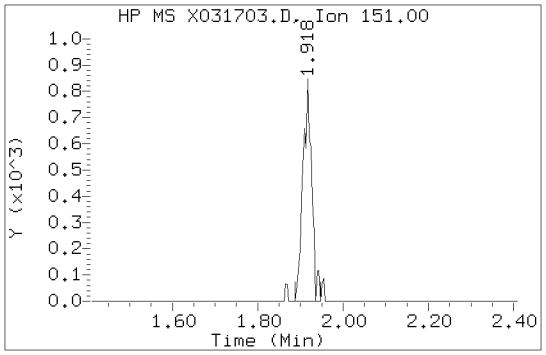
BEFORE

MASS
151
AREA
1224
HEIGHT
847
21-Mar-2023
10:17
linh
pham



AFTER

MASS
151
AREA
1224
HEIGHT
847
21-Mar-2023
10:17
linh
pham

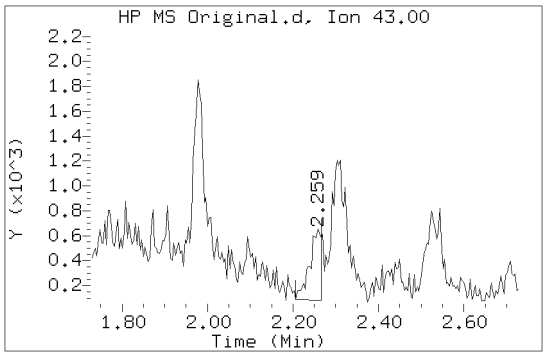


Methyl acetate (79-20-9)

Reason Code:

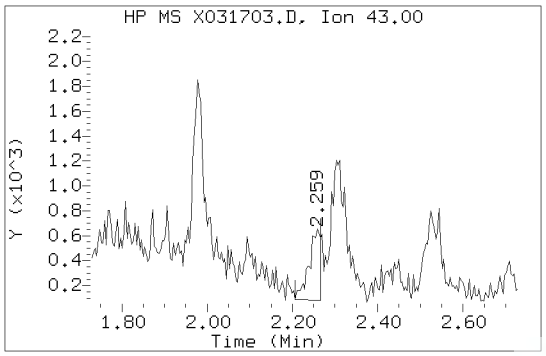
BEFORE

MASS
43
AREA
1057
HEIGHT
572
21-Mar-2023
10:17
linh
pham



AFTER

MASS
43
AREA
1057
HEIGHT
572
21-Mar-2023
10:17
linh
pham



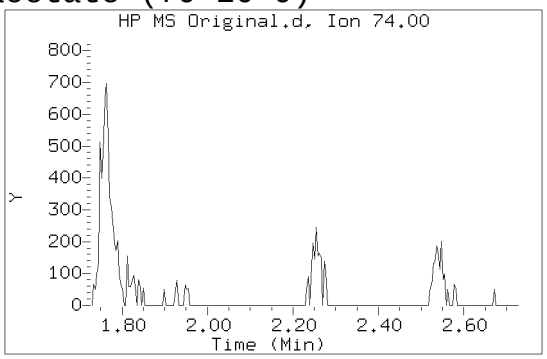
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Methyl acetate (79-20-9)

Reason Code:

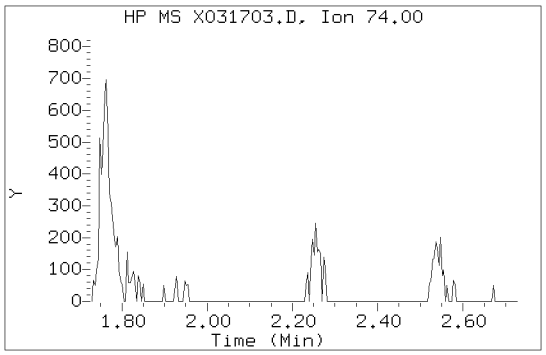
BEFORE

MASS
74
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
74
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

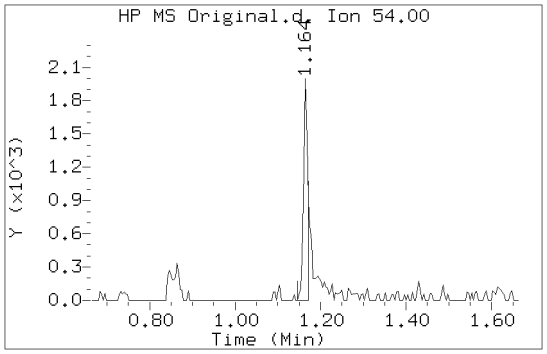


1,3-Butadiene (106-99-0)

Reason Code:

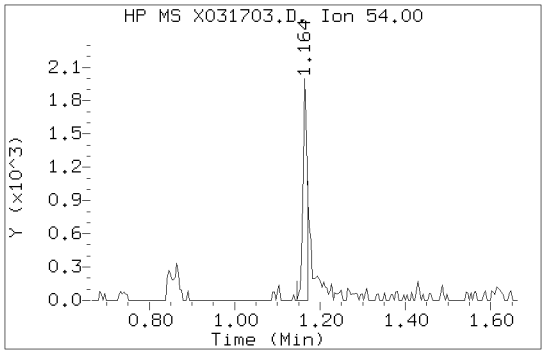
BEFORE

MASS
54
AREA
1361
HEIGHT
1998
21-Mar-2023
10:17
linh
pham



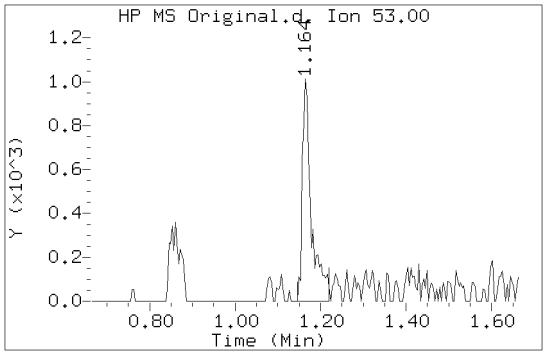
AFTER

MASS
54
AREA
1361
HEIGHT
1998
21-Mar-2023
10:17
linh
pham



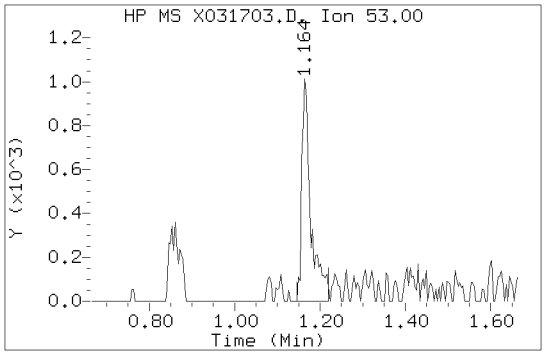
BEFORE

MASS
53
AREA
1521
HEIGHT
1013
21-Mar-2023
10:17
linh
pham



AFTER

MASS
53
AREA
1521
HEIGHT
1013
21-Mar-2023
10:17
linh
pham

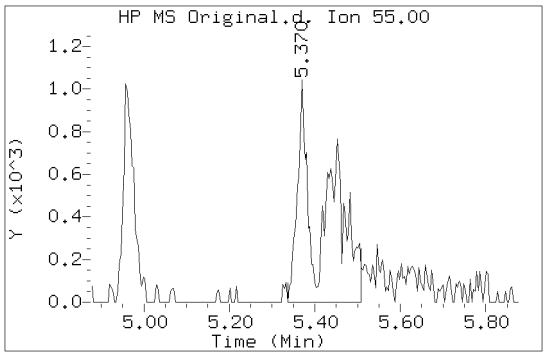


Methylcyclohexane (108-87-2)

Reason Code:

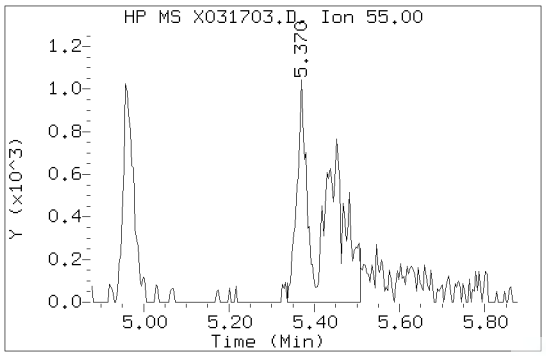
BEFORE

MASS
55
AREA
4159
HEIGHT
1043
21-Mar-2023
10:17
linh
pham



AFTER

MASS
55
AREA
4159
HEIGHT
1043
21-Mar-2023
10:17
linh
pham



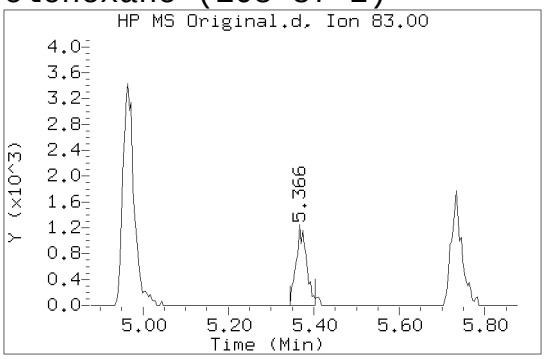
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Methylcyclohexane (108-87-2)

Reason Code:

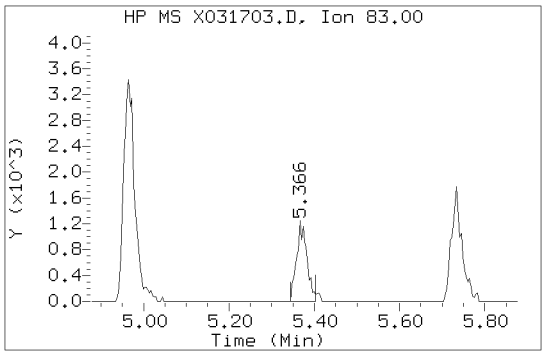
BEFORE

MASS
83
AREA
2121
HEIGHT
1250
21-Mar-2023
10:17
linh
pham



AFTER

MASS
83
AREA
2121
HEIGHT
1250
21-Mar-2023
10:17
linh
pham

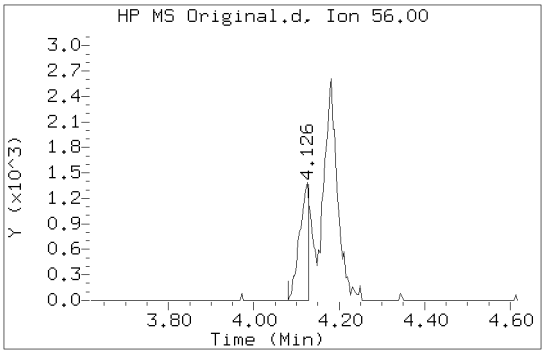


Cyclohexane (110-82-7)

Reason Code:

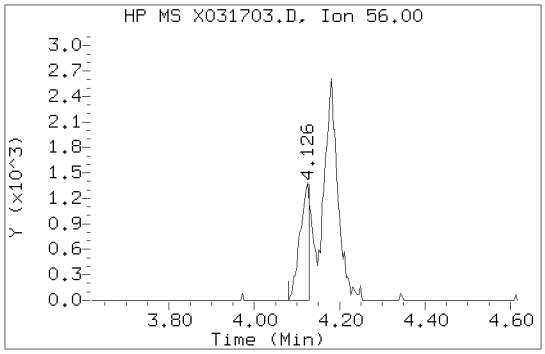
BEFORE

MASS
56
AREA
2139
HEIGHT
1387
21-Mar-2023
10:17
linh
pham



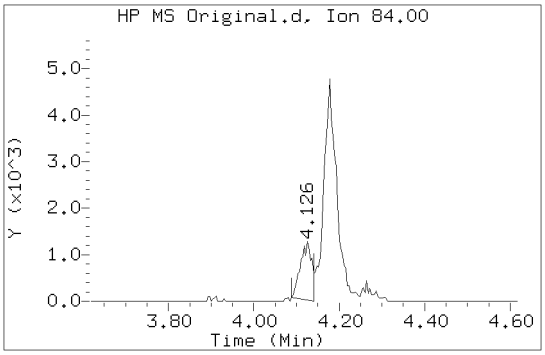
AFTER

MASS
56
AREA
2139
HEIGHT
1387
21-Mar-2023
10:17
linh
pham



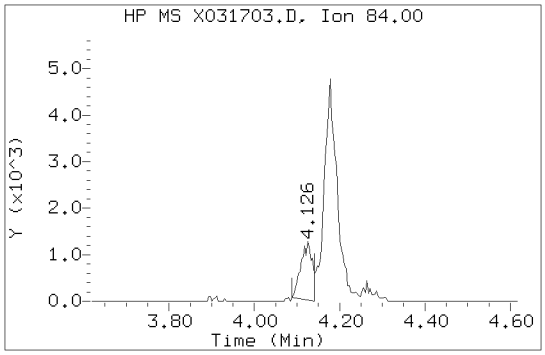
BEFORE

MASS
84
AREA
2339
HEIGHT
1264
21-Mar-2023
10:17
linh
pham



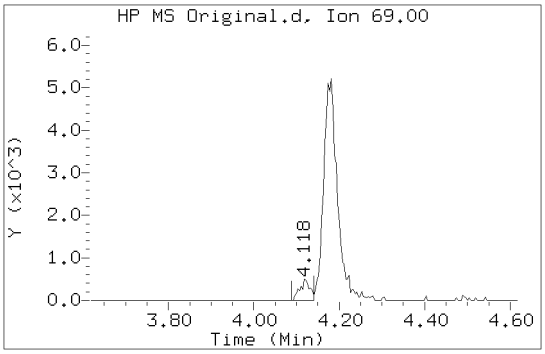
AFTER

MASS
84
AREA
2339
HEIGHT
1264
21-Mar-2023
10:17
linh
pham



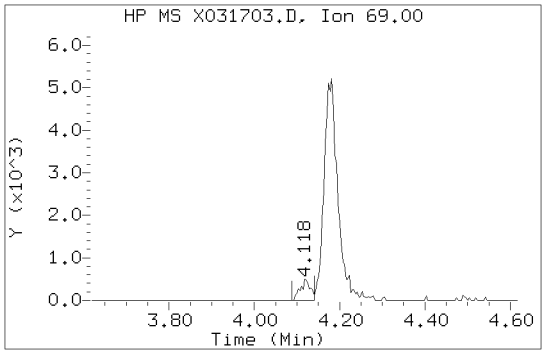
BEFORE

MASS
69
AREA
828
HEIGHT
492
21-Mar-2023
10:17
linh
pham



AFTER

MASS
69
AREA
828
HEIGHT
492
21-Mar-2023
10:17
linh
pham



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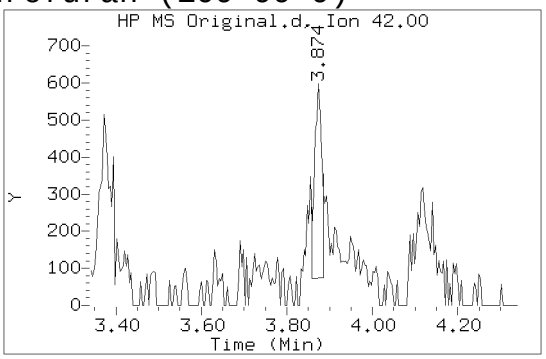
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Tetrahydrofuran (109-99-9)

Reason Code:

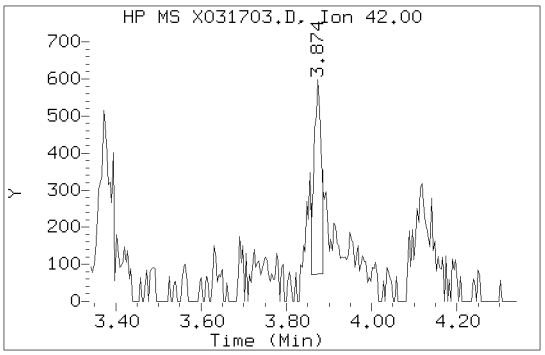
BEFORE

MASS
42
AREA
614
HEIGHT
524
21-Mar-2023
10:17
linh
pham



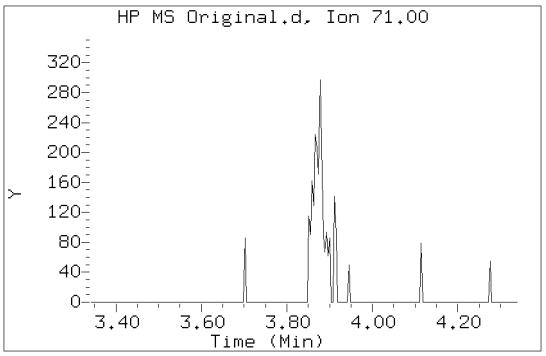
AFTER

MASS
42
AREA
614
HEIGHT
524
21-Mar-2023
10:17
linh
pham



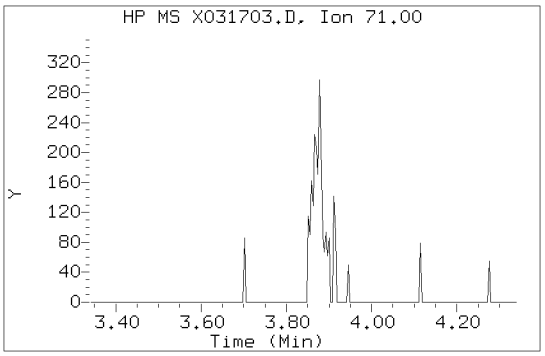
BEFORE

MASS
71
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
71
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

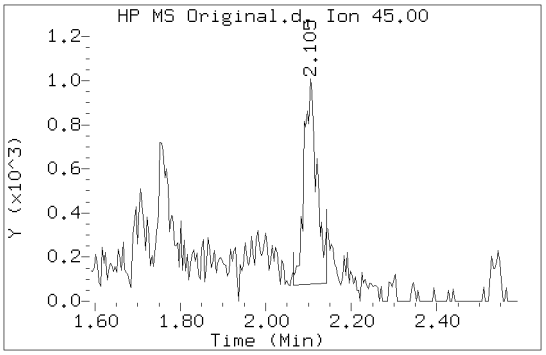


Isopropyl alcohol (67-63-0)

Reason Code:

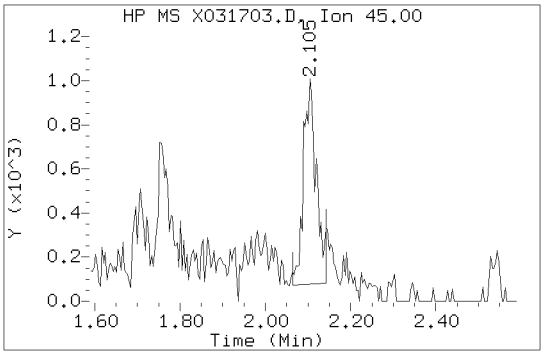
BEFORE

MASS
45
AREA
1979
HEIGHT
930
21-Mar-2023
10:17
linh
pham



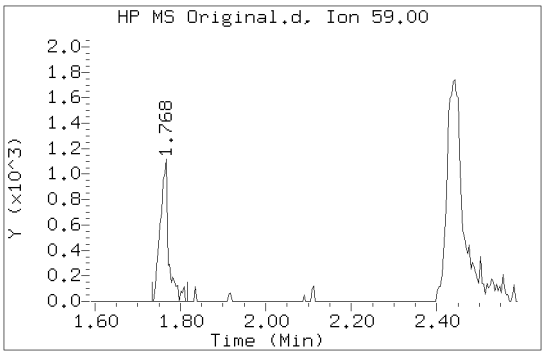
AFTER

MASS
45
AREA
1979
HEIGHT
930
21-Mar-2023
10:17
linh
pham



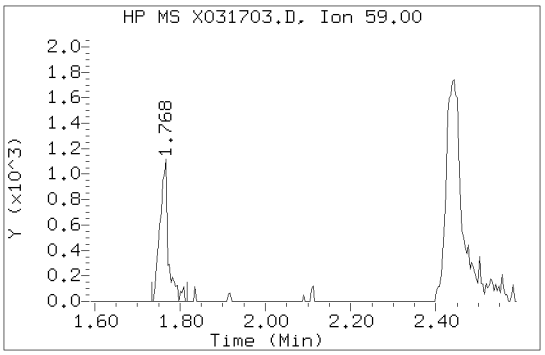
BEFORE

MASS
59
AREA
1523
HEIGHT
1120
21-Mar-2023
10:17
linh
pham



AFTER

MASS
59
AREA
1523
HEIGHT
1120
21-Mar-2023
10:17
linh
pham



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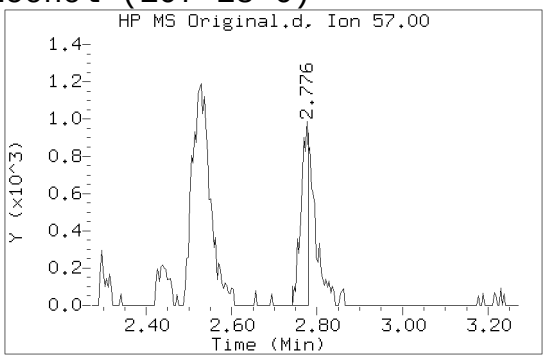
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Allyl alcohol (107-18-6)

Reason Code:

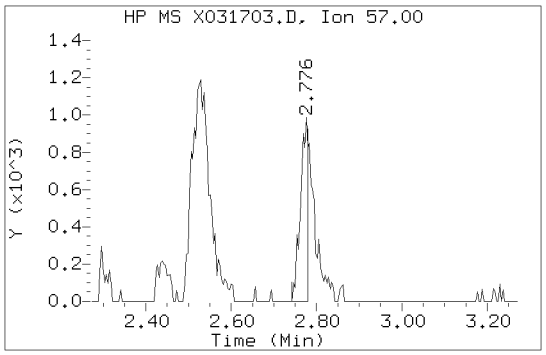
BEFORE

MASS
57
AREA
1223
HEIGHT
989
21-Mar-2023
10:17
linh
pham



AFTER

MASS
57
AREA
1223
HEIGHT
989
21-Mar-2023
10:17
linh
pham

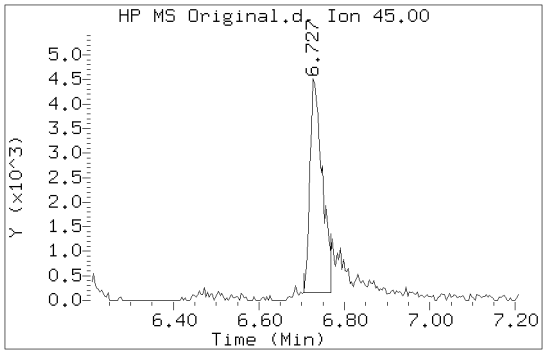


4-Methyl-2-pentanol (108-11-2)

Reason Code:

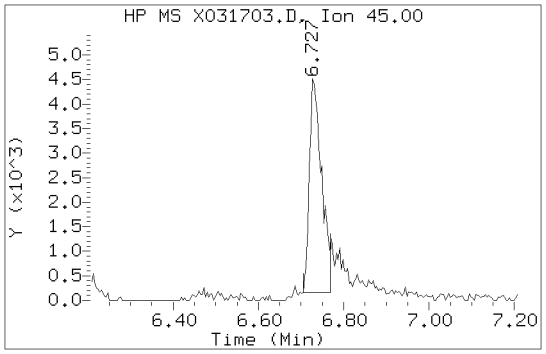
BEFORE

MASS
45
AREA
8689
HEIGHT
4355
21-Mar-2023
10:17
linh
pham



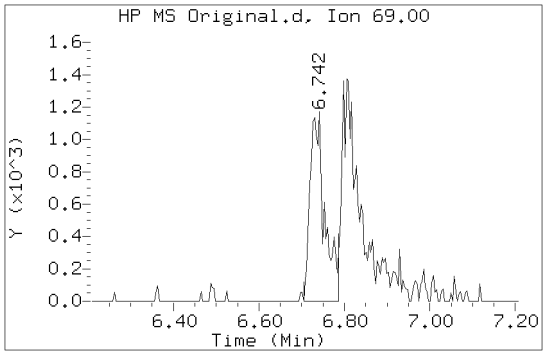
AFTER

MASS
45
AREA
8689
HEIGHT
4355
21-Mar-2023
10:17
linh
pham



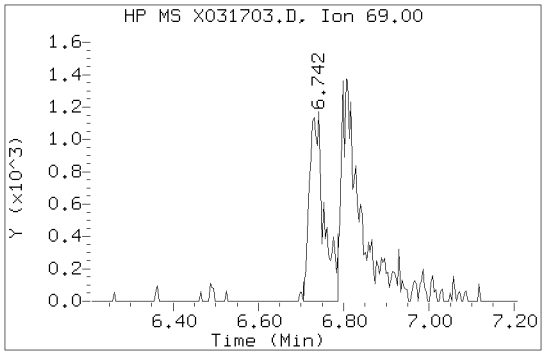
BEFORE

MASS
69
AREA
2787
HEIGHT
1173
21-Mar-2023
10:17
linh
pham



AFTER

MASS
69
AREA
2787
HEIGHT
1173
21-Mar-2023
10:17
linh
pham

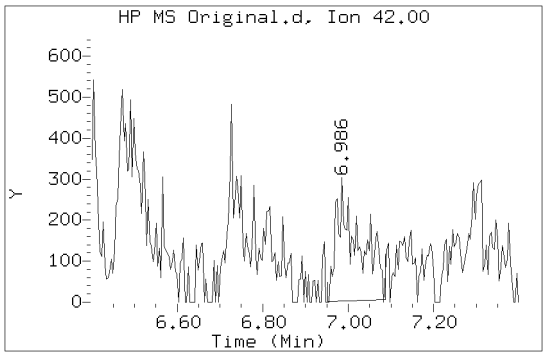


Amyl alcohol (71-41-0)

Reason Code:

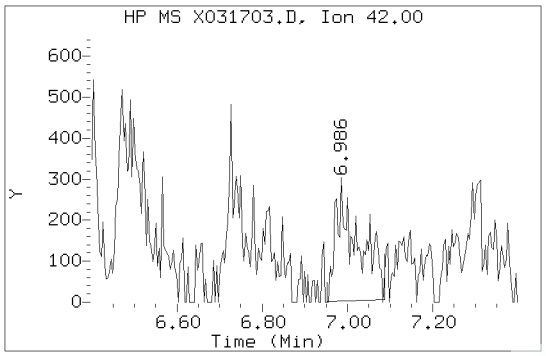
BEFORE

MASS
42
AREA
1078
HEIGHT
301
21-Mar-2023
10:17
linh
pham



AFTER

MASS
42
AREA
1078
HEIGHT
301
21-Mar-2023
10:17
linh
pham

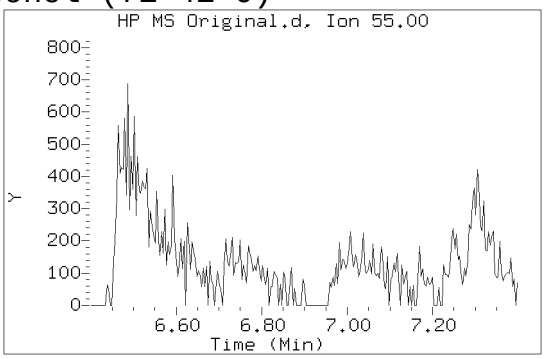


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Amyl alcohol (71-41-0)

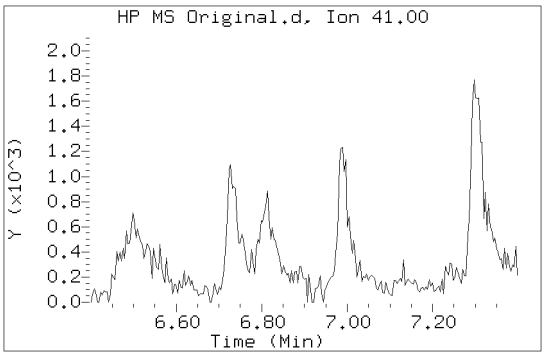
BEFORE

MASS
55
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



BEFORE

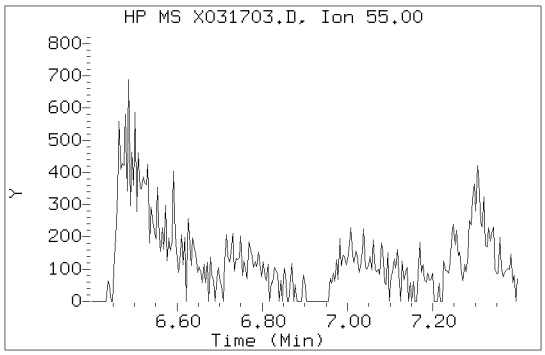
MASS
41
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



Reason Code:

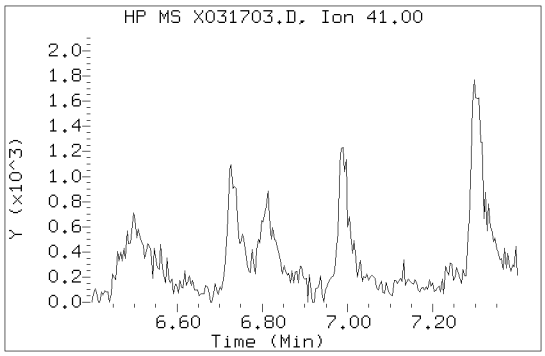
AFTER

MASS
55
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

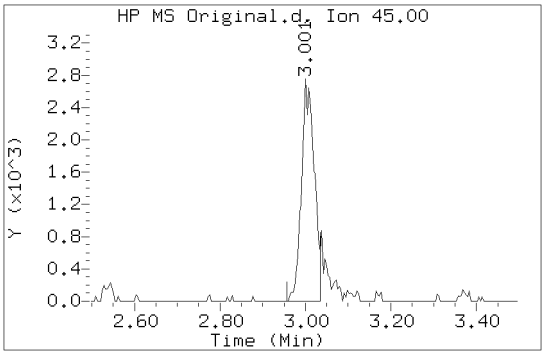
MASS
41
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



Diisopropyl ether (108-20-3)

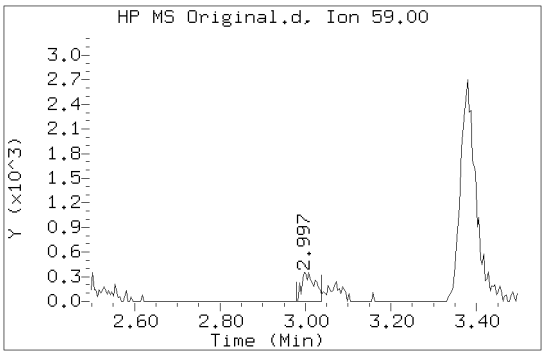
BEFORE

MASS
45
AREA
5833
HEIGHT
2756
21-Mar-2023
10:17
linh
pham



BEFORE

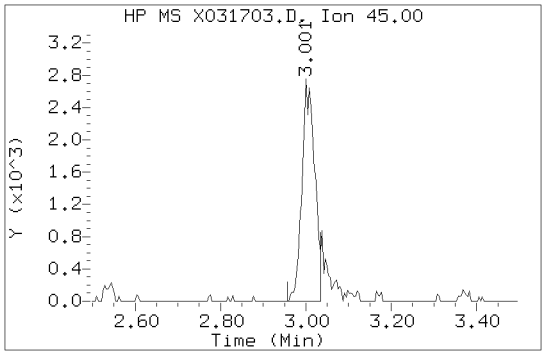
MASS
59
AREA
777
HEIGHT
355
21-Mar-2023
10:17
linh
pham



Reason Code:

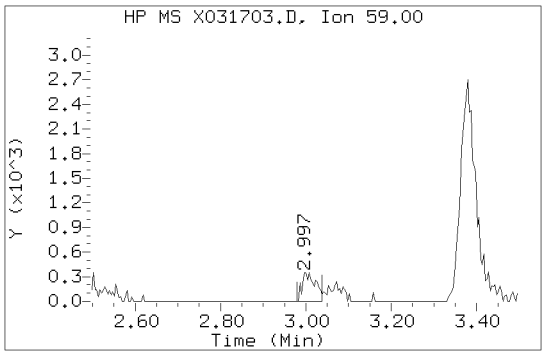
AFTER

MASS
45
AREA
5833
HEIGHT
2756
21-Mar-2023
10:17
linh
pham



AFTER

MASS
59
AREA
777
HEIGHT
355
21-Mar-2023
10:17
linh
pham



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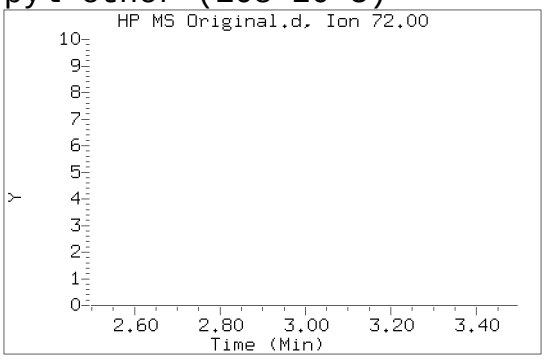
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Diisopropyl ether (108-20-3)

Reason Code:

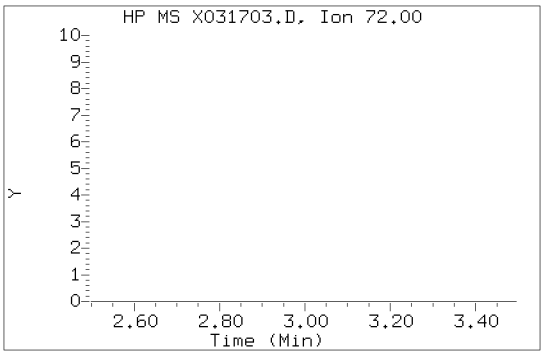
BEFORE

MASS
72
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
72
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

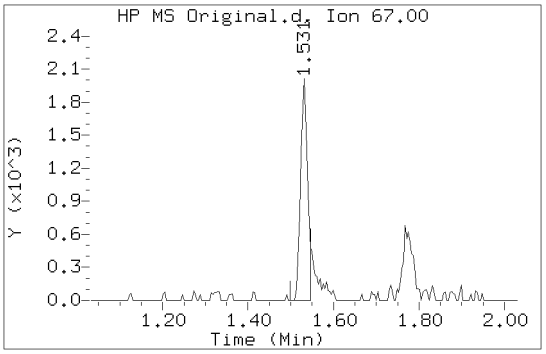


Dichlorofluoromethane (75-43-4)

Reason Code:

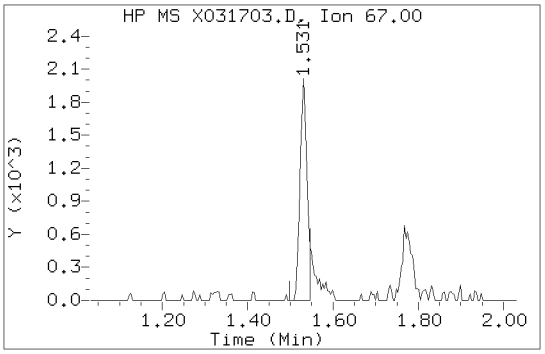
BEFORE

MASS
67
AREA
2337
HEIGHT
2013
21-Mar-2023
10:17
linh
pham



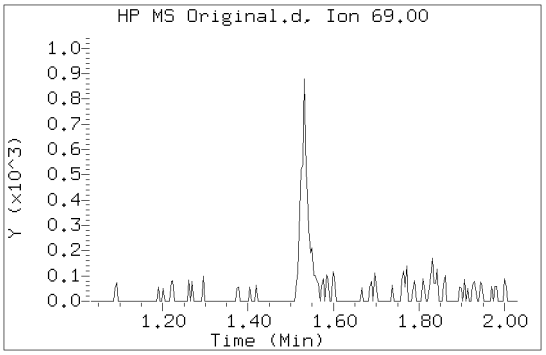
AFTER

MASS
67
AREA
2337
HEIGHT
2013
21-Mar-2023
10:17
linh
pham



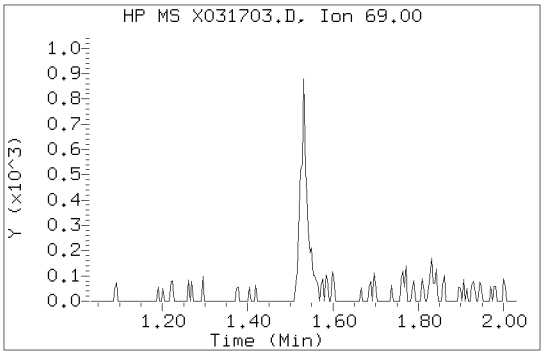
BEFORE

MASS
69
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



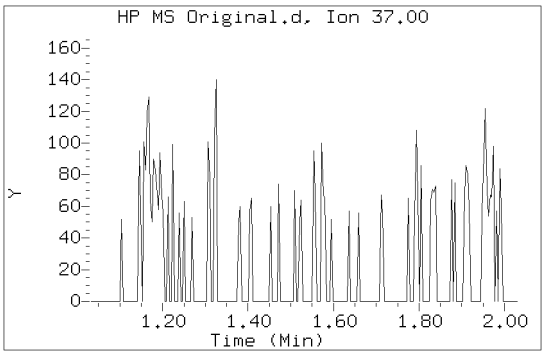
AFTER

MASS
69
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



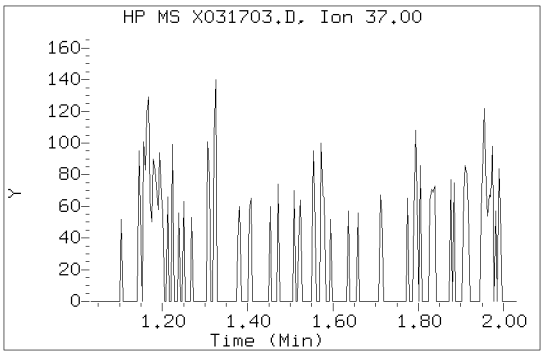
BEFORE

MASS
37
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
37
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

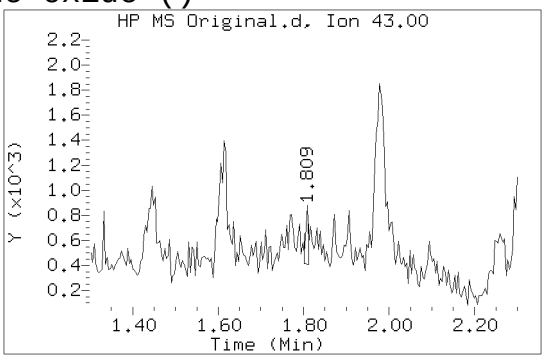


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

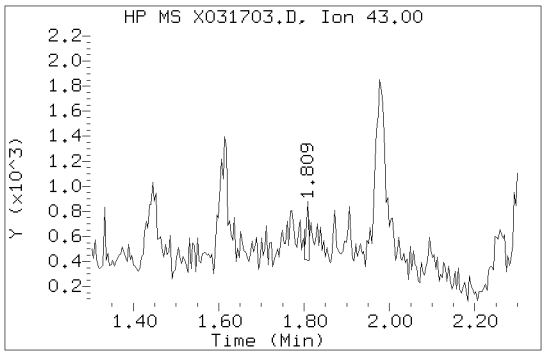
Propylene oxide ()

Reason Code:

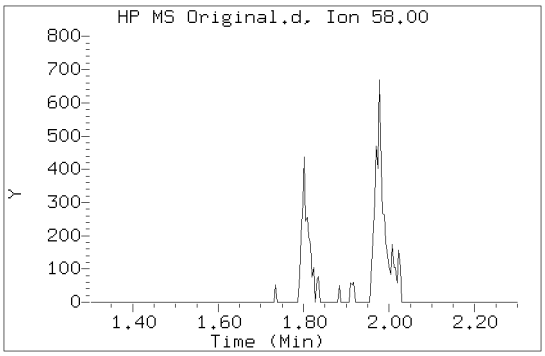
BEFORE
MASS
43
AREA
209
HEIGHT
466
21-Mar-2023
10:17
linh
pham



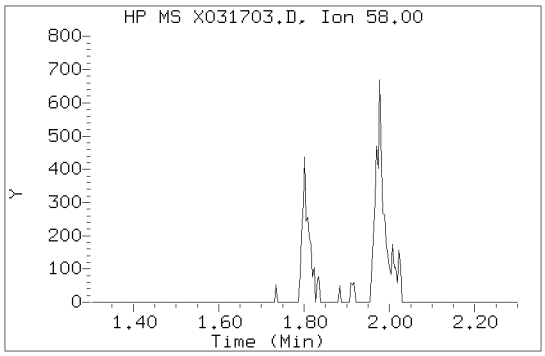
AFTER
MASS
43
AREA
209
HEIGHT
466
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
58
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



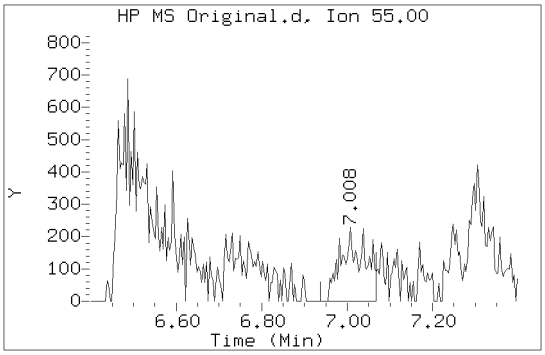
AFTER
MASS
58
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



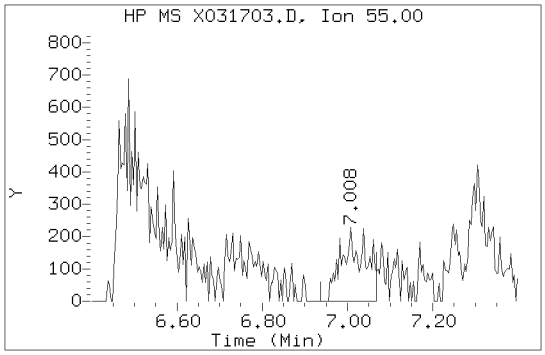
3-Methyl-1-butanol (123-51-3)

Reason Code:

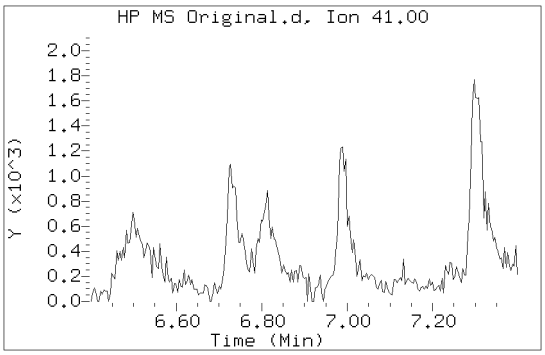
BEFORE
MASS
55
AREA
851
HEIGHT
229
21-Mar-2023
10:17
linh
pham



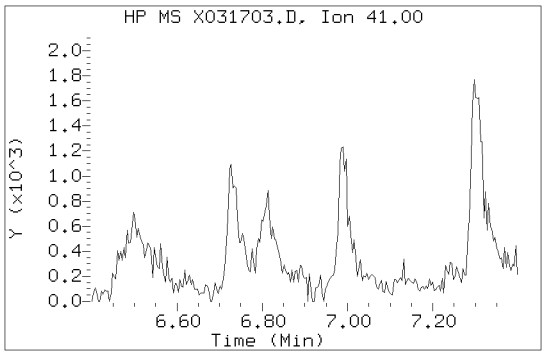
AFTER
MASS
55
AREA
851
HEIGHT
229
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
41
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER
MASS
41
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



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Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Butyl acrylate (141-32-2)

Reason Code:

BEFORE

MASS
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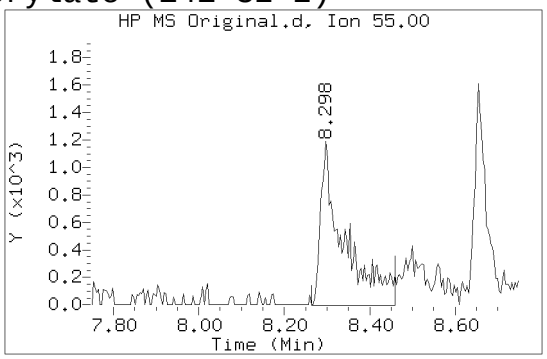
AREA
4463
HEIGHT
1193
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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AREA
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HEIGHT
1193
21-Mar-2023
10:17
linh
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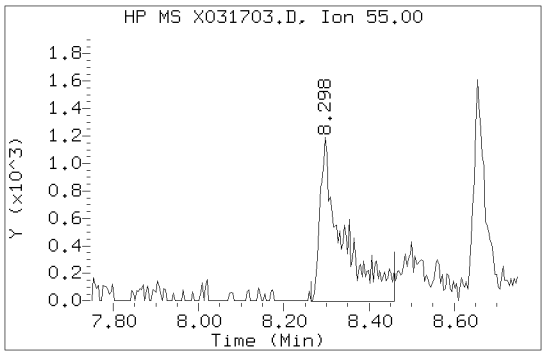

BEFORE

MASS
56
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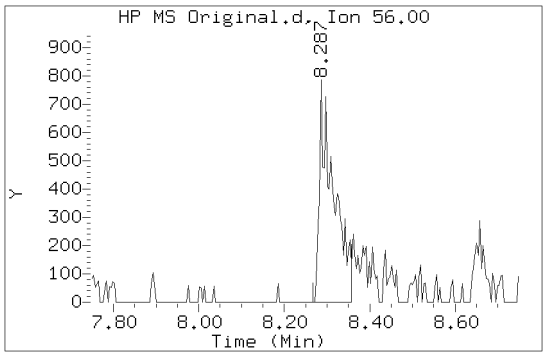
HEIGHT
786
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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AREA
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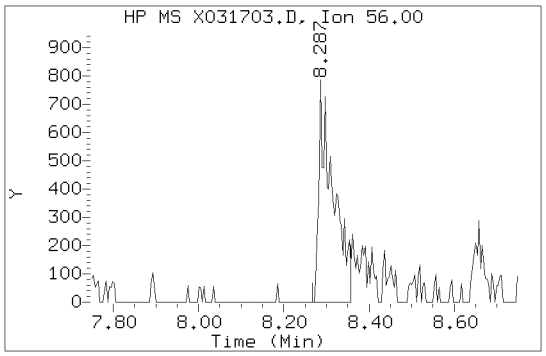
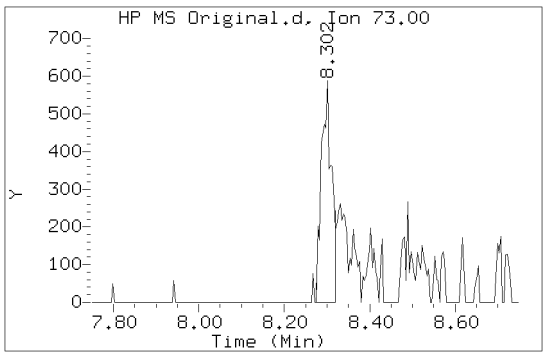
HEIGHT
786
21-Mar-2023
10:17
linh
pham



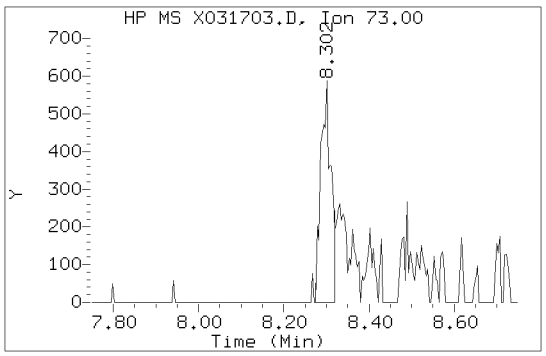
BEFORE

MASS
73
AREA
966
HEIGHT
588
21-Mar-2023
10:17
linh
pham



AFTER

MASS
73
AREA
966
HEIGHT
588
21-Mar-2023
10:17
linh
pham

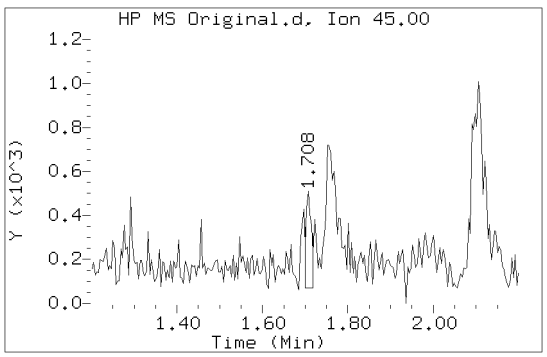


Ethanol (64-17-5)

Reason Code:

BEFORE

MASS
45
AREA
398
HEIGHT
440
21-Mar-2023
10:17
linh
pham



AFTER

MASS
45
AREA
398
HEIGHT
440
21-Mar-2023
10:17
linh
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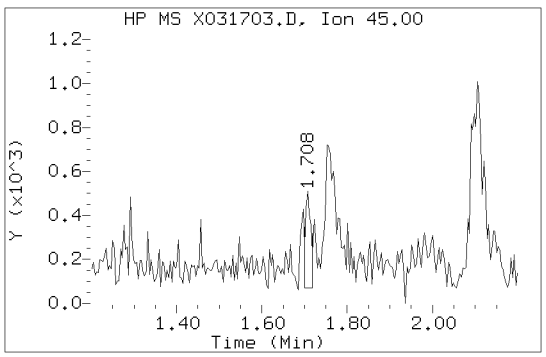

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Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Ethanol (64-17-5)

Reason Code:

BEFORE
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46
AREA
0
HEIGHT
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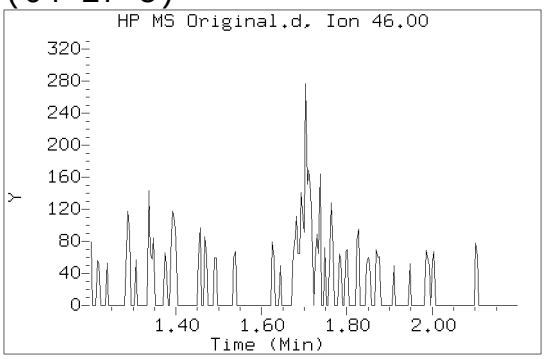
21-Mar-2023
10:17
linh
pham



AFTER
MASS
46
AREA
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HEIGHT
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21-Mar-2023
10:17
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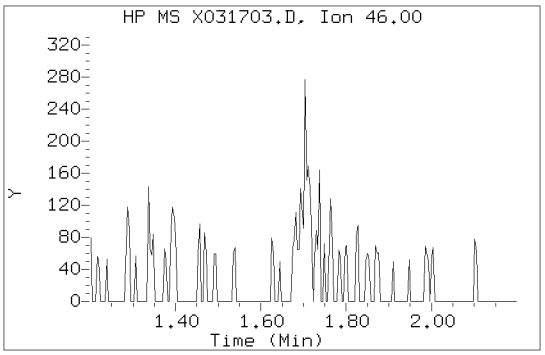
pham



BEFORE
MASS
43
AREA
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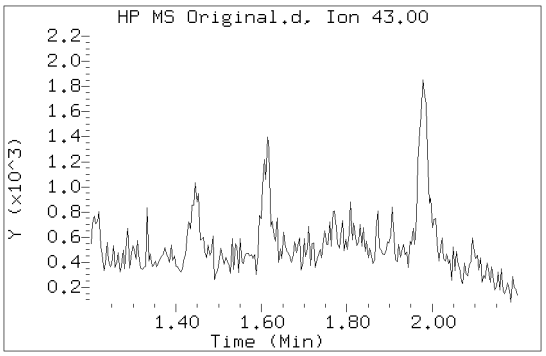
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER
MASS
43
AREA
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HEIGHT
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21-Mar-2023
10:17
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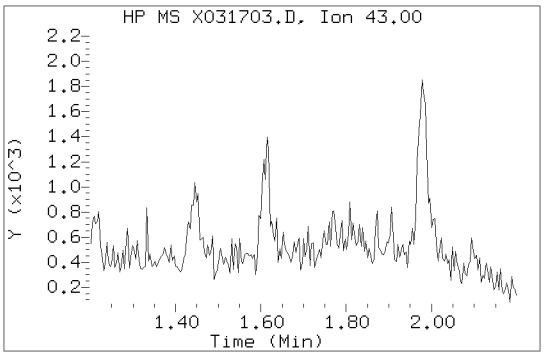
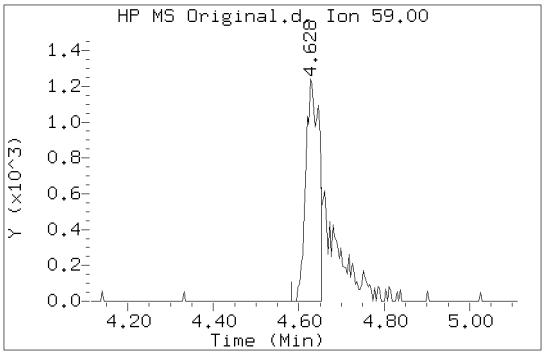


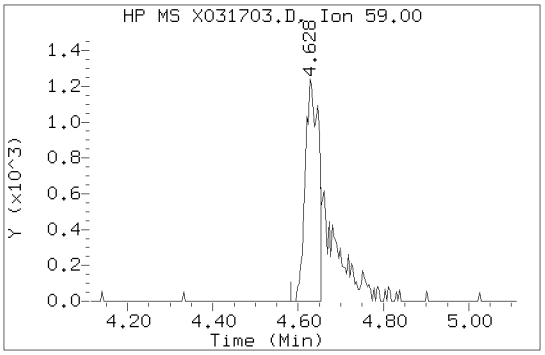
tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
59
AREA
2676
HEIGHT
1242
21-Mar-2023
10:17
linh
pham



AFTER
MASS
59
AREA
2676
HEIGHT
1242
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
57
AREA
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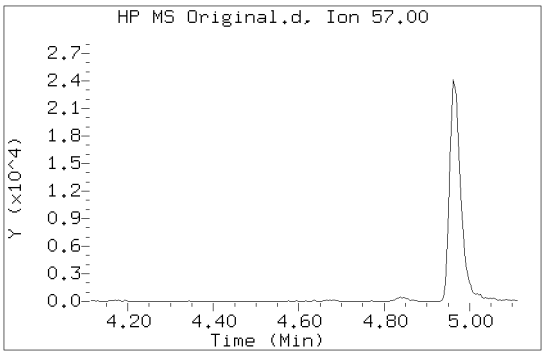
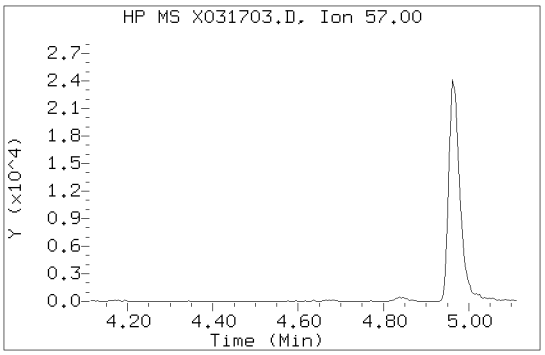
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER
MASS
57
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



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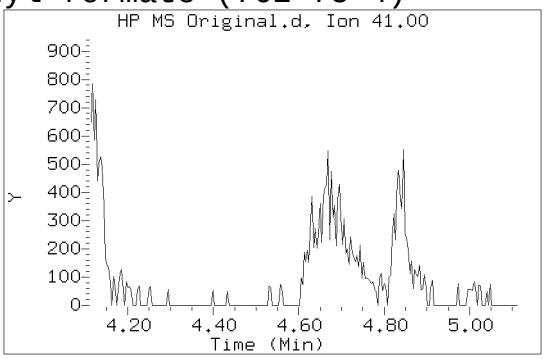
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

tert-Butyl formate (762-75-4)

Reason Code:

BEFORE

MASS
41
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
41
AREA
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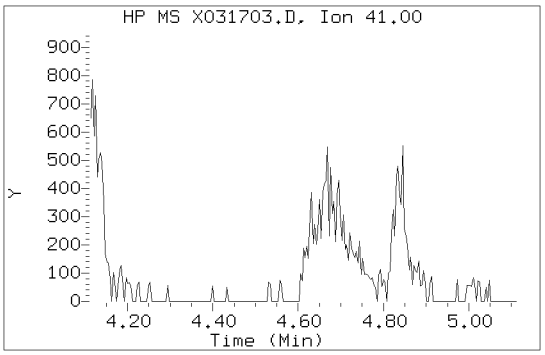
HEIGHT
0
21-Mar-2023
10:17
linh
pham



3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE

MASS
57
AREA
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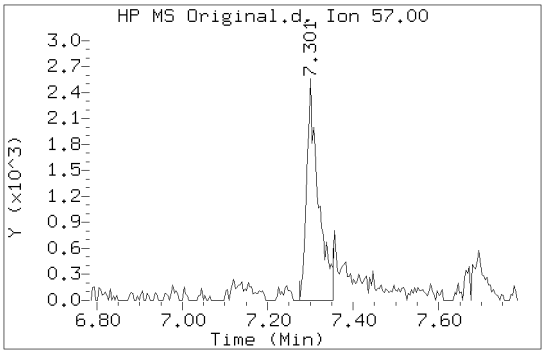
HEIGHT
2561
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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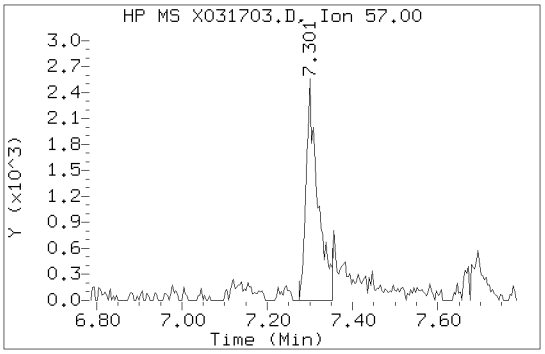
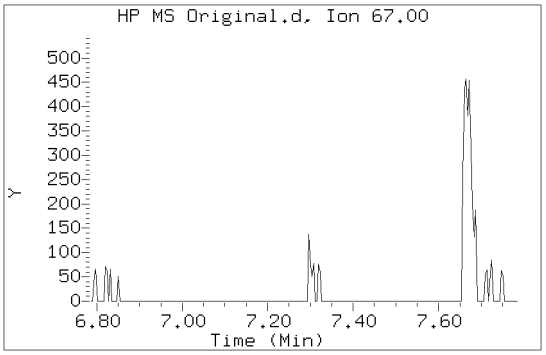
AREA
4857
HEIGHT
2561
21-Mar-2023
10:17
linh
pham



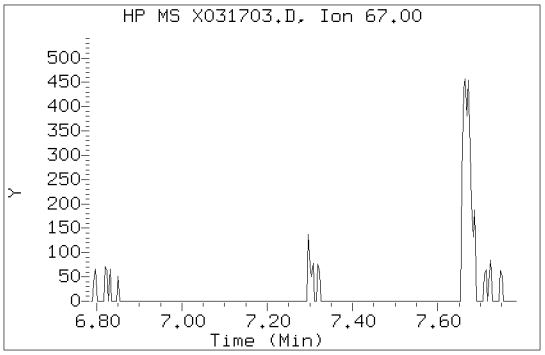
BEFORE

MASS
67
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
67
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
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AREA
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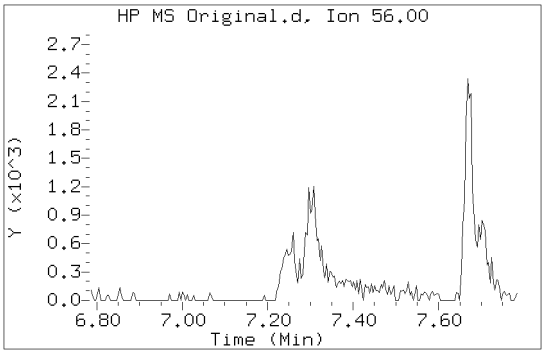
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
56
AREA
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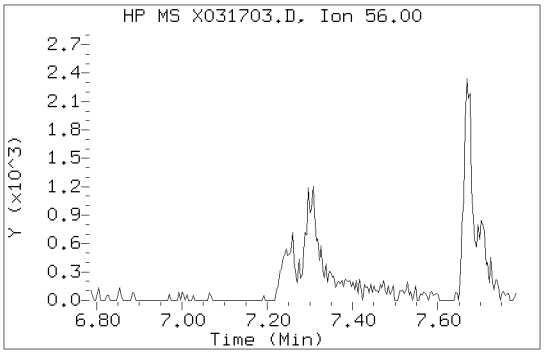
HEIGHT
0
21-Mar-2023
10:17
linh
pham



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Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

tert-Amyl methyl ether (974-05-08)

Reason Code:

BEFORE

MASS
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AREA
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HEIGHT
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21-Mar-2023
10:17
linh
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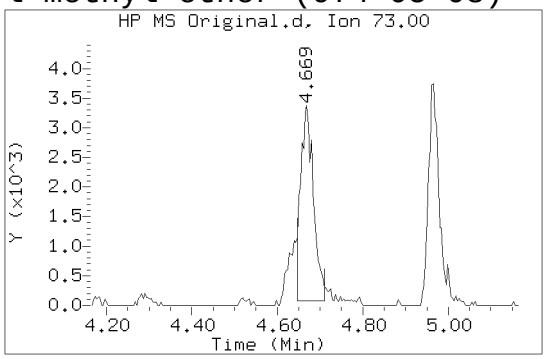

AFTER

MASS
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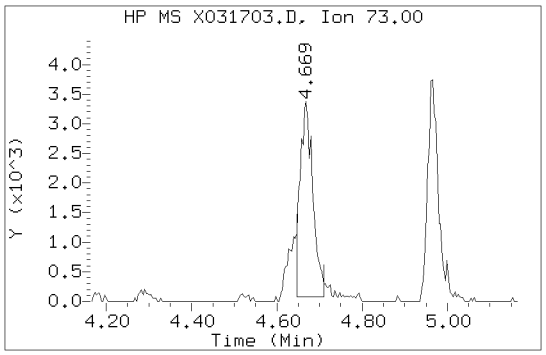
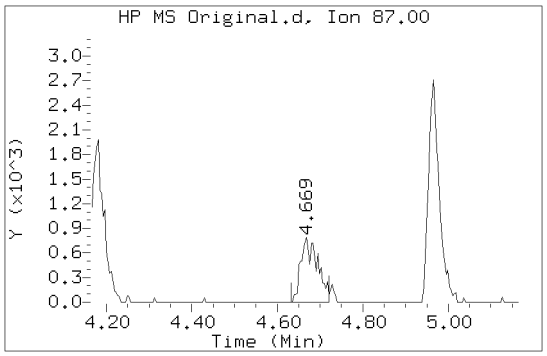
AREA
7050
HEIGHT
3307
21-Mar-2023
10:17
linh
pham



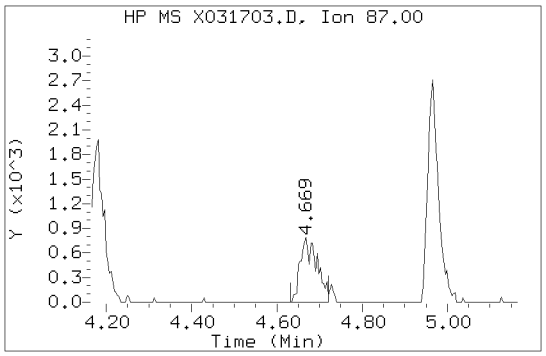
BEFORE

MASS
87
AREA
2185
HEIGHT
790
21-Mar-2023
10:17
linh
pham



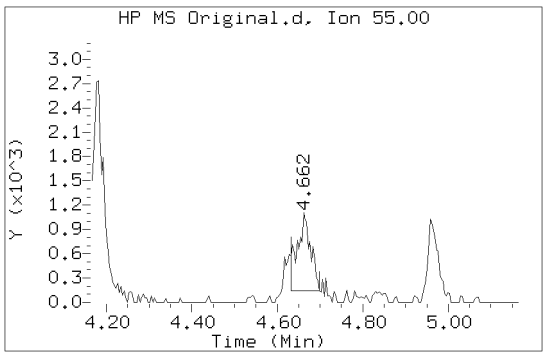
AFTER

MASS
87
AREA
2185
HEIGHT
790
21-Mar-2023
10:17
linh
pham



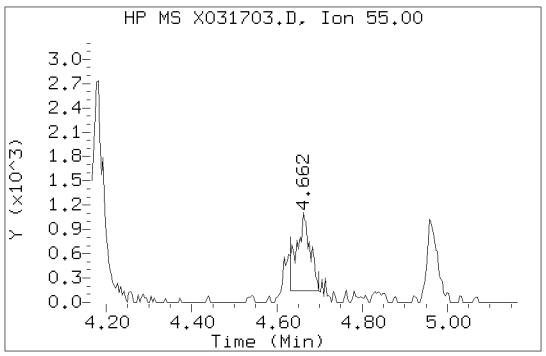
BEFORE

MASS
55
AREA
2163
HEIGHT
964
21-Mar-2023
10:17
linh
pham



AFTER

MASS
55
AREA
2163
HEIGHT
964
21-Mar-2023
10:17
linh
pham



tert-Butyl ethyl ether (637-92-3)

Reason Code:

BEFORE

MASS
59
AREA
6191
HEIGHT
2701
21-Mar-2023
10:17
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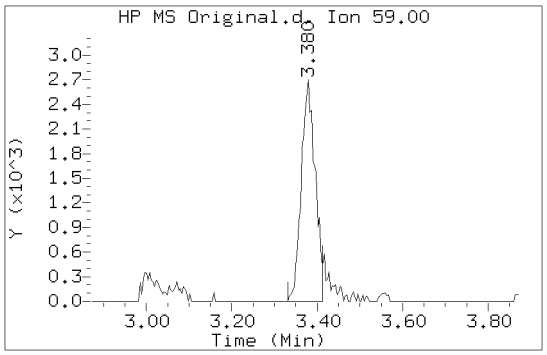
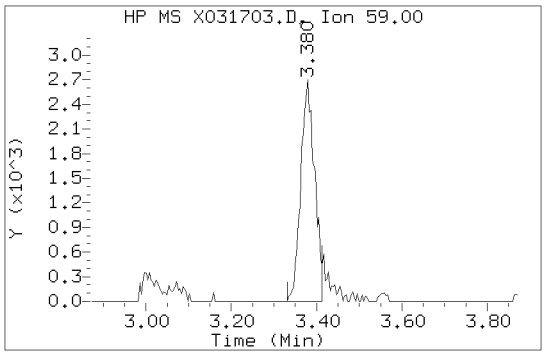
pham



AFTER

MASS
59
AREA
6191
HEIGHT
2701
21-Mar-2023
10:17
linh
pham



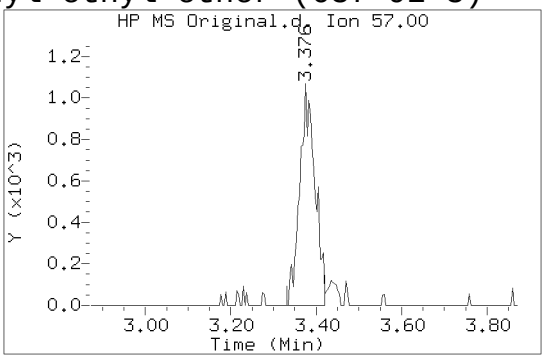
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

tert-Butyl ethyl ether (637-92-3)

Reason Code:

BEFORE

MASS
57
AREA
2669
HEIGHT
1069
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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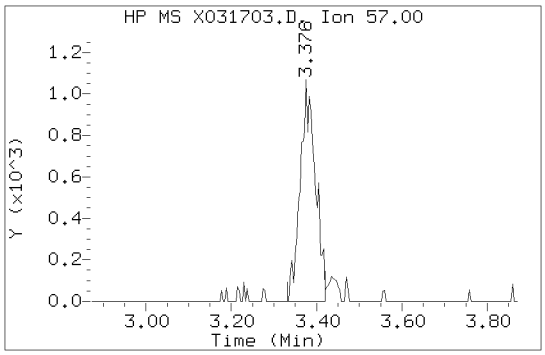
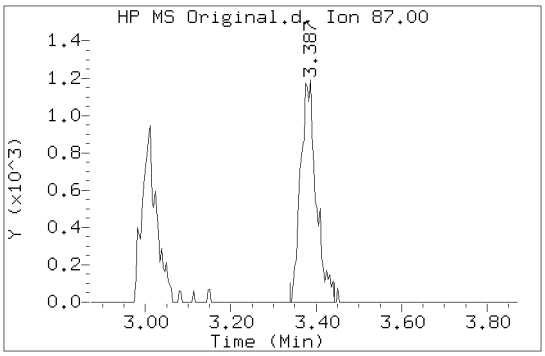
AREA
2669
HEIGHT
1069
21-Mar-2023
10:17
linh
pham



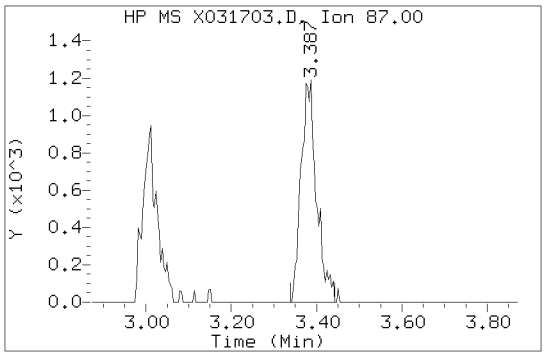
BEFORE

MASS
87
AREA
3036
HEIGHT
1191
21-Mar-2023
10:17
linh
pham



AFTER

MASS
87
AREA
3036
HEIGHT
1191
21-Mar-2023
10:17
linh
pham

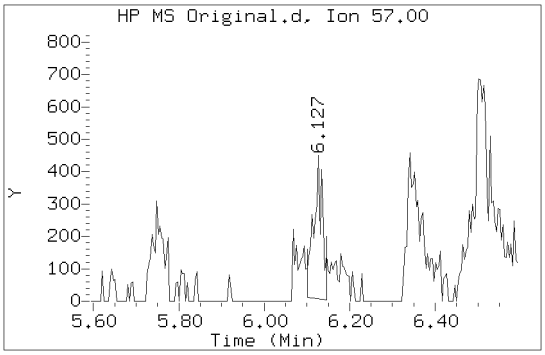


Epichlorohydrin (106-89-8)

Reason Code:

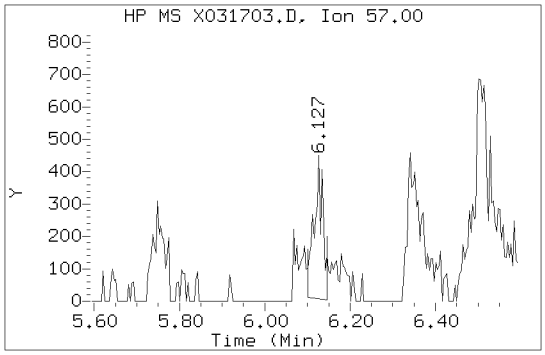
BEFORE

MASS
57
AREA
641
HEIGHT
443
21-Mar-2023
10:17
linh
pham



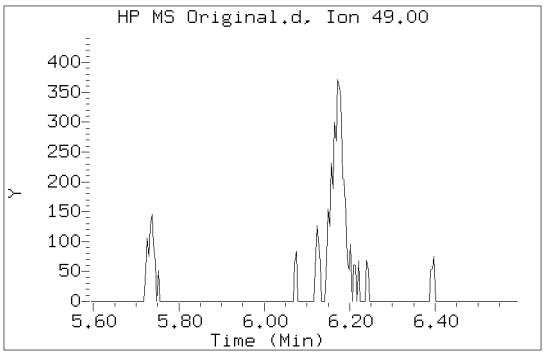
AFTER

MASS
57
AREA
641
HEIGHT
443
21-Mar-2023
10:17
linh
pham



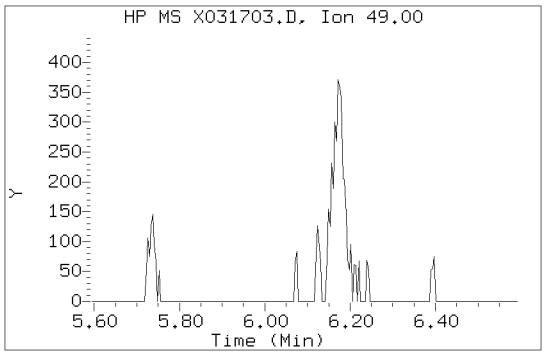
BEFORE

MASS
49
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
49
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



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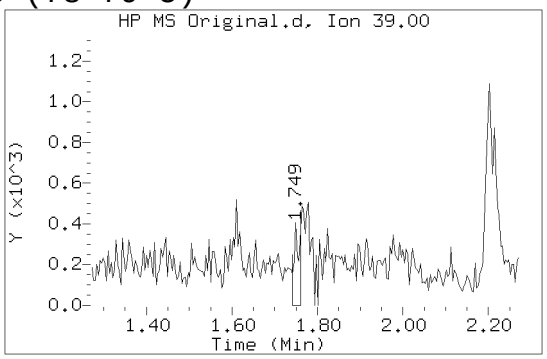
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Isoprene (78-79-5)

Reason Code:

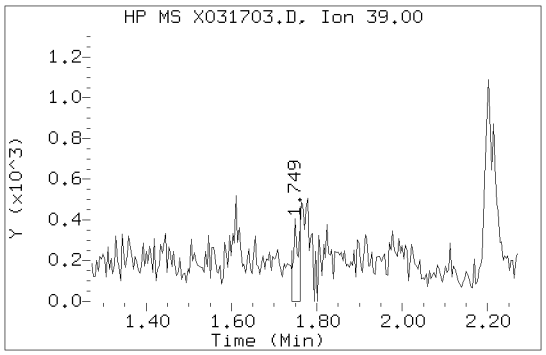
BEFORE

MASS
39
AREA
361
HEIGHT
407
21-Mar-2023
10:17
linh
pham



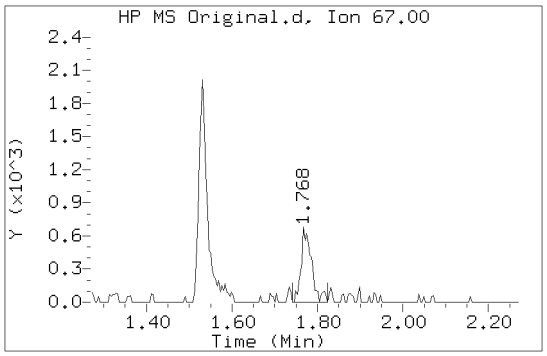
AFTER

MASS
39
AREA
361
HEIGHT
407
21-Mar-2023
10:17
linh
pham



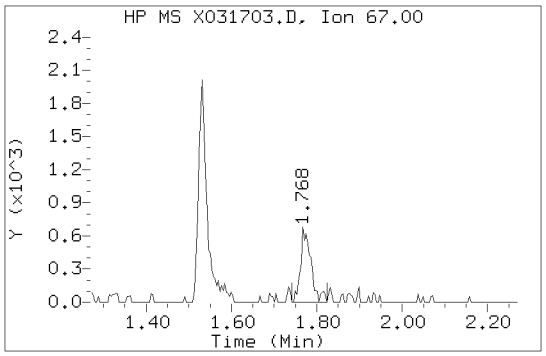
BEFORE

MASS
67
AREA
1162
HEIGHT
679
21-Mar-2023
10:17
linh
pham



AFTER

MASS
67
AREA
1162
HEIGHT
679
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
53
AREA
632
HEIGHT
377
21-Mar-2023
10:17
linh
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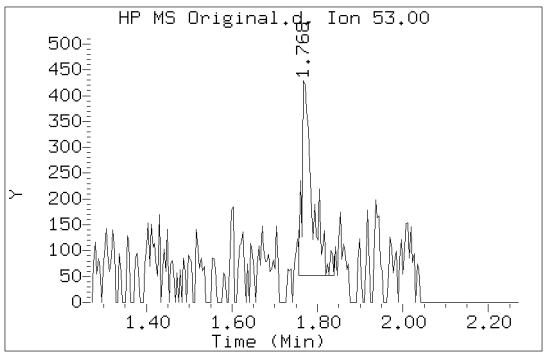
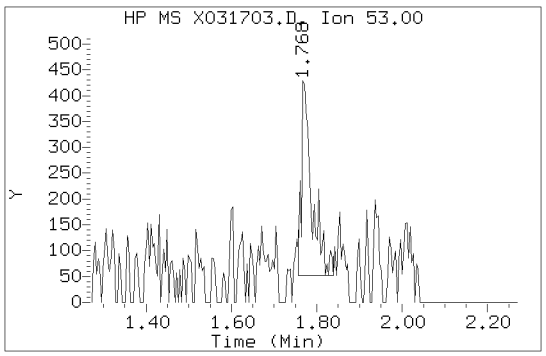


AFTER

MASS
53
AREA
632
HEIGHT
377
21-Mar-2023
10:17
linh
pham

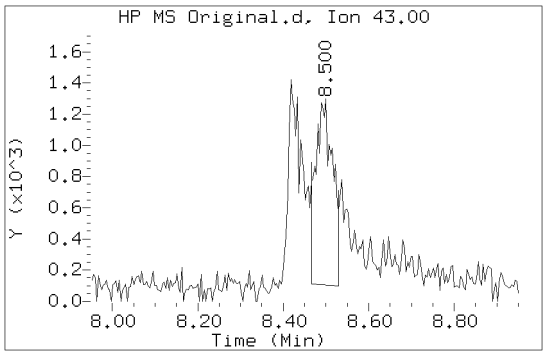


n-Amyl acetate (628-63-7)

Reason Code:

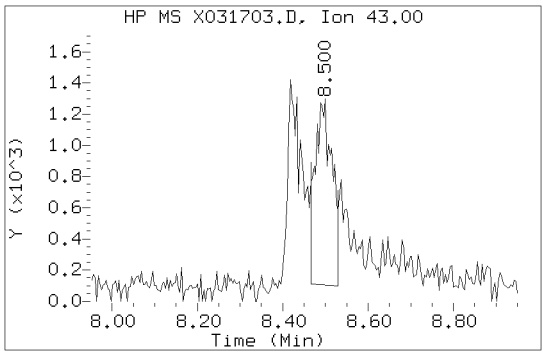
BEFORE

MASS
43
AREA
3393
HEIGHT
1193
21-Mar-2023
10:17
linh
pham



AFTER

MASS
43
AREA
3393
HEIGHT
1193
21-Mar-2023
10:17
linh
pham



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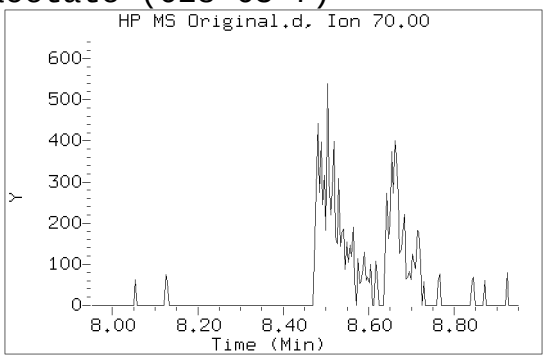
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

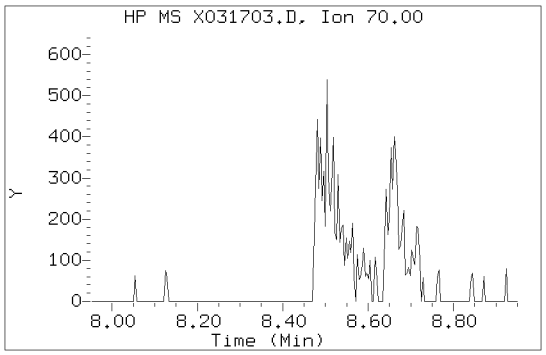
n-Amyl acetate (628-63-7)

Reason Code:

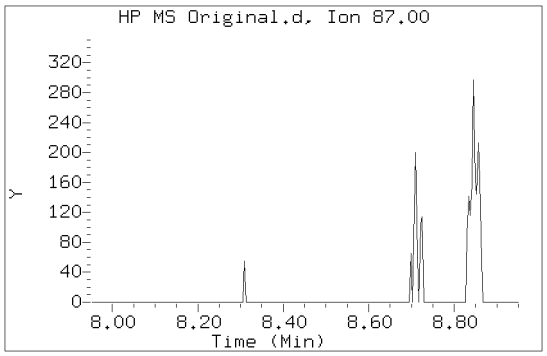
BEFORE
MASS
70
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER
MASS
70
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
87
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER
MASS
87
AREA
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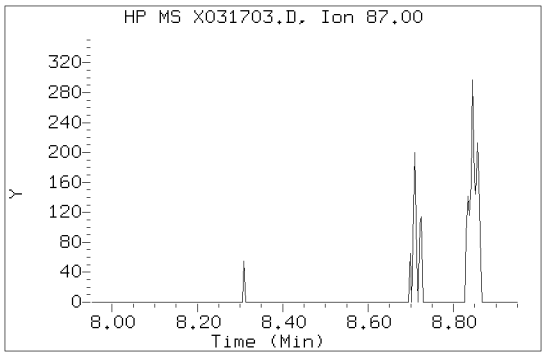
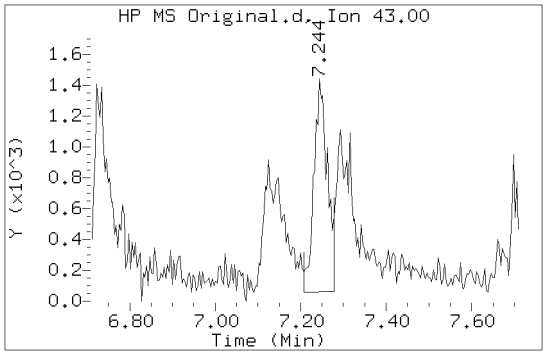
HEIGHT
0
21-Mar-2023
10:17
linh
pham



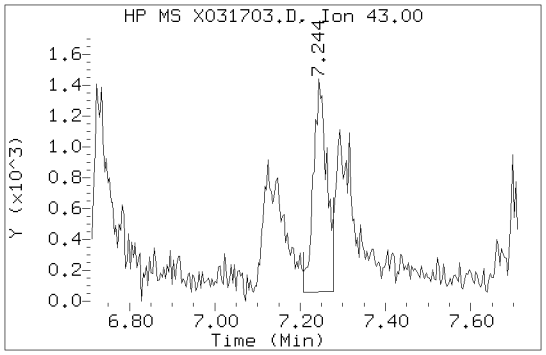
n-Butyl acetate (123-86-4)

Reason Code:

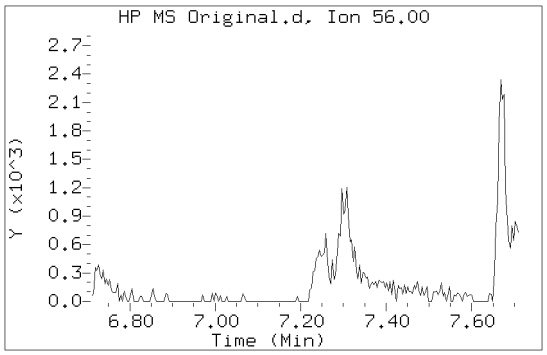
BEFORE
MASS
43
AREA
3030
HEIGHT
1378
21-Mar-2023
10:17
linh
pham



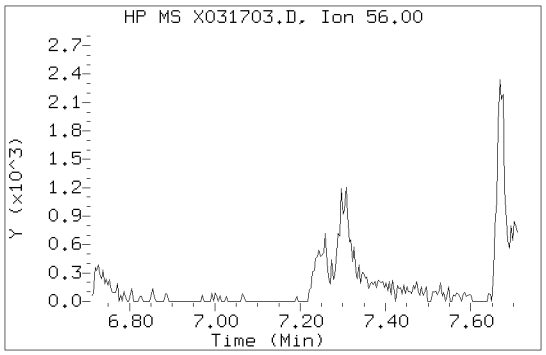
AFTER
MASS
43
AREA
3030
HEIGHT
1378
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
56
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER
MASS
56
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



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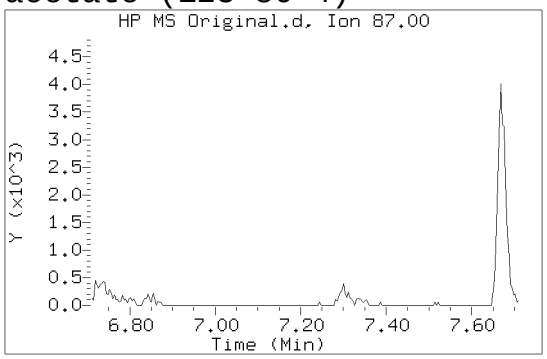
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

n-Butyl acetate (123-86-4)

Reason Code:

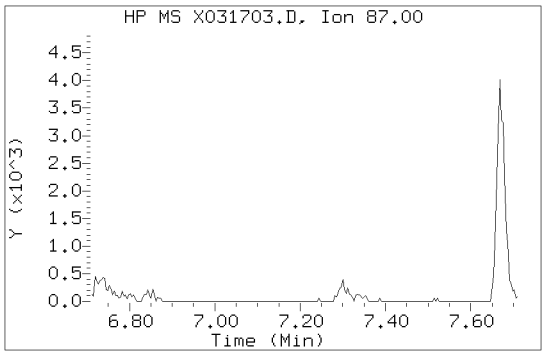
BEFORE

MASS
87
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
87
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

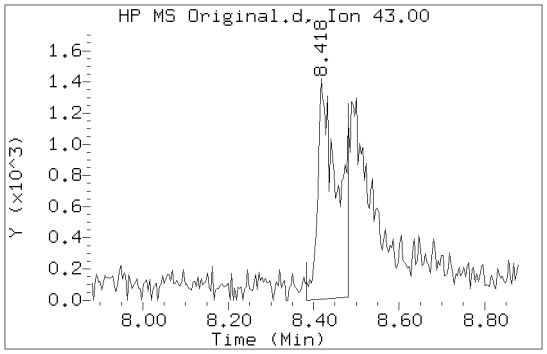


Methyl Amyl Ketone (110-43-0)

Reason Code:

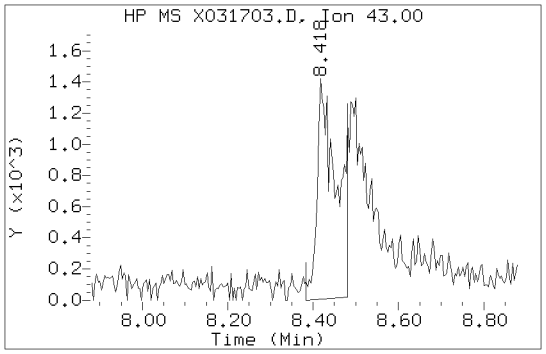
BEFORE

MASS
43
AREA
4445
HEIGHT
1414
21-Mar-2023
10:17
linh
pham



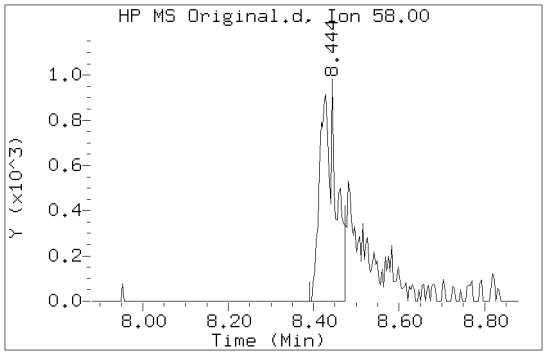
AFTER

MASS
43
AREA
4445
HEIGHT
1414
21-Mar-2023
10:17
linh
pham



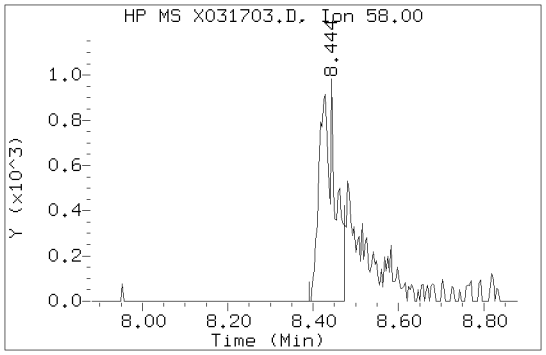
BEFORE

MASS
58
AREA
2410
HEIGHT
983
21-Mar-2023
10:17
linh
pham



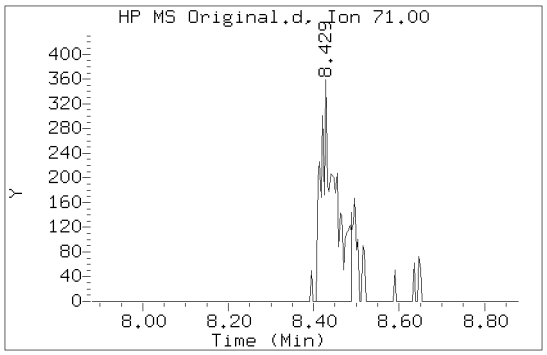
AFTER

MASS
58
AREA
2410
HEIGHT
983
21-Mar-2023
10:17
linh
pham



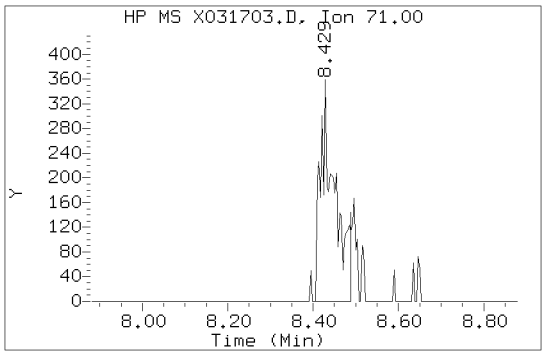
BEFORE

MASS
71
AREA
846
HEIGHT
359
21-Mar-2023
10:17
linh
pham



AFTER

MASS
71
AREA
846
HEIGHT
359
21-Mar-2023
10:17
linh
pham



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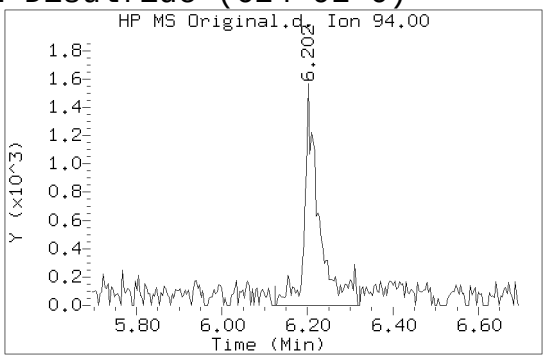
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Dimethyl Disulfide (624-92-0)

Reason Code:

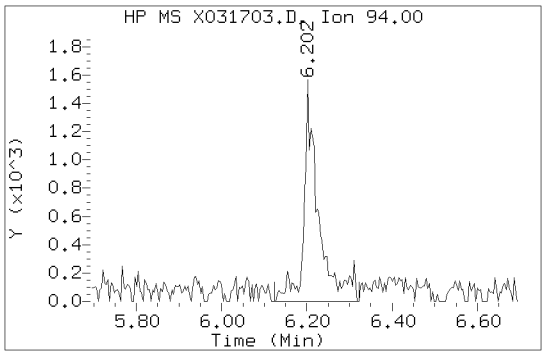
BEFORE

MASS
94
AREA
3700
HEIGHT
1567
21-Mar-2023
10:17
linh
pham



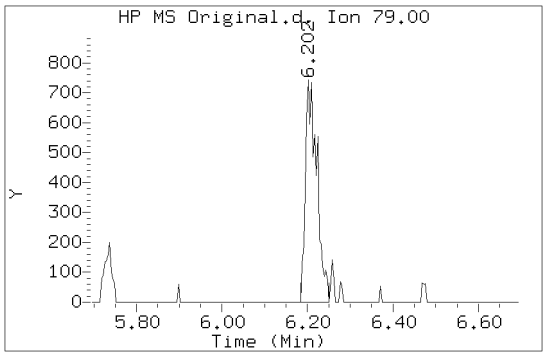
AFTER

MASS
94
AREA
3700
HEIGHT
1567
21-Mar-2023
10:17
linh
pham



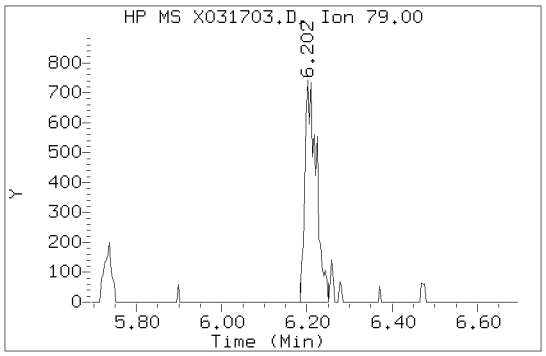
BEFORE

MASS
79
AREA
1393
HEIGHT
743
21-Mar-2023
10:17
linh
pham



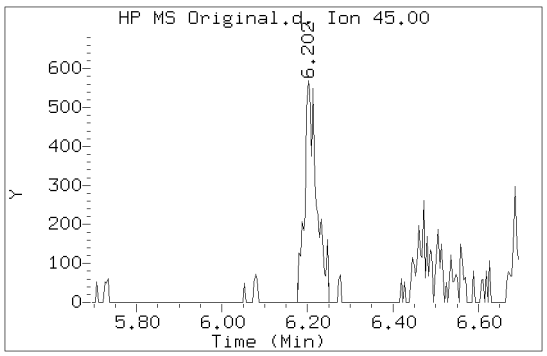
AFTER

MASS
79
AREA
1393
HEIGHT
743
21-Mar-2023
10:17
linh
pham



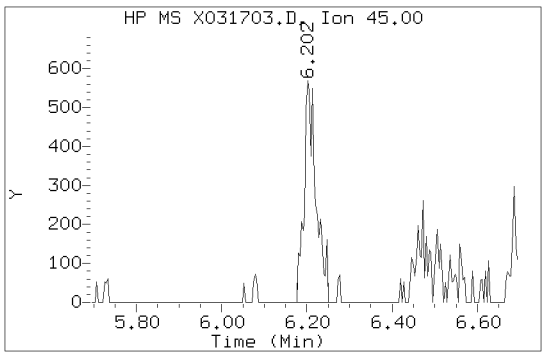
BEFORE

MASS
45
AREA
1130
HEIGHT
569
21-Mar-2023
10:17
linh
pham



AFTER

MASS
45
AREA
1130
HEIGHT
569
21-Mar-2023
10:17
linh
pham

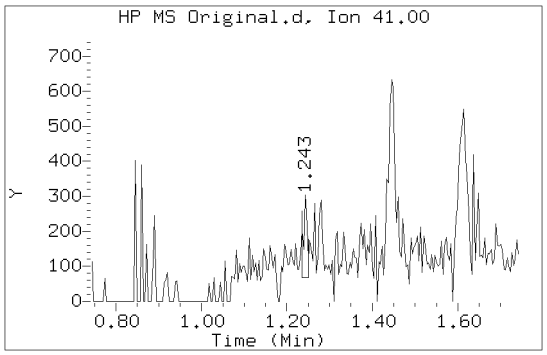


Isobutylene (115-11-7)

Reason Code:

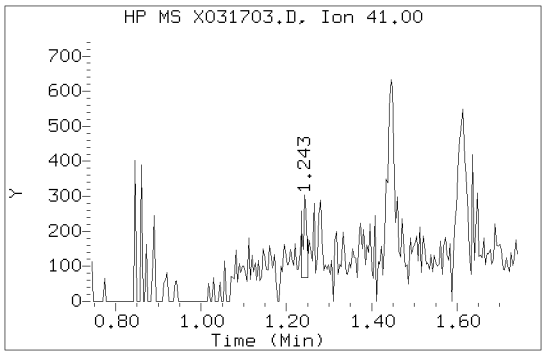
BEFORE

MASS
41
AREA
156
HEIGHT
236
21-Mar-2023
10:17
linh
pham



AFTER

MASS
41
AREA
156
HEIGHT
236
21-Mar-2023
10:17
linh
pham



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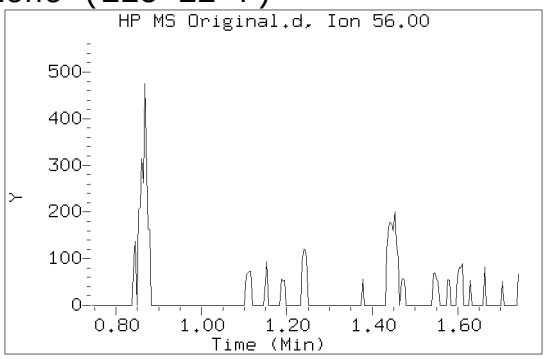
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Isobutylene (115-11-7)

BEFORE
MASS
56
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



Reason Code:

AFTER
MASS
56
AREA
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HEIGHT
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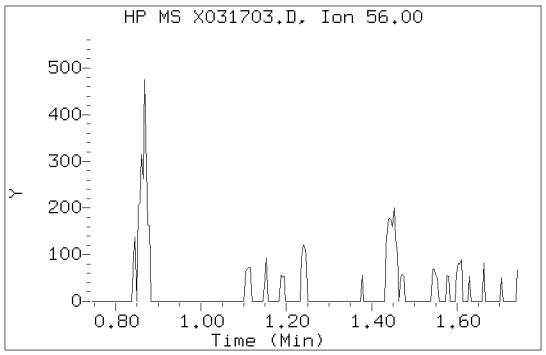
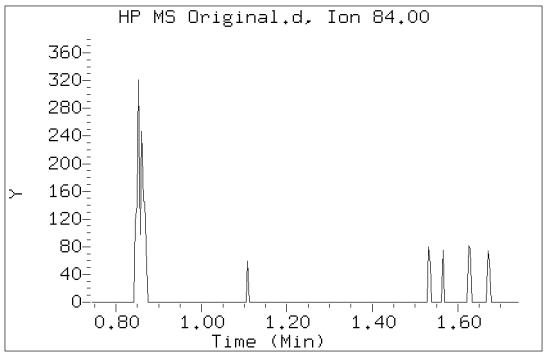
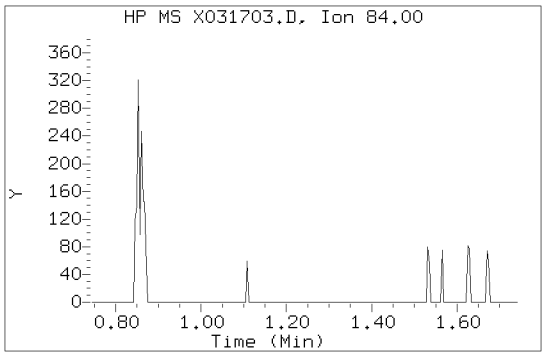
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
84
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



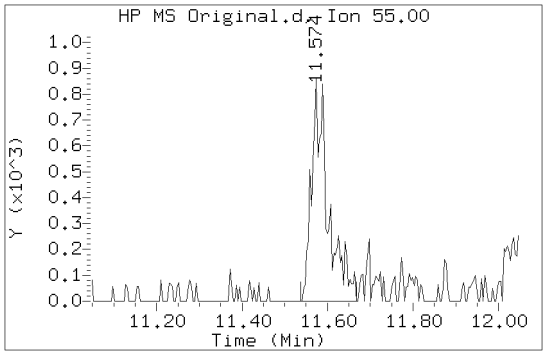
AFTER
MASS
84
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



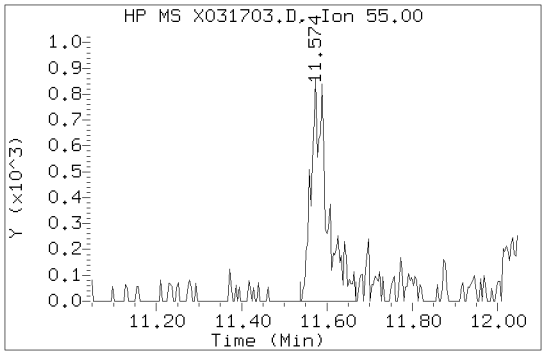
2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

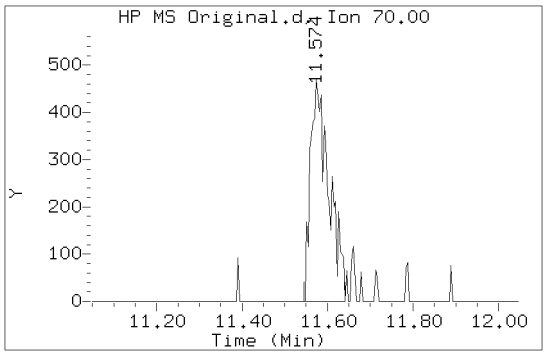
BEFORE
MASS
55
AREA
2268
HEIGHT
859
21-Mar-2023
10:17
linh
pham



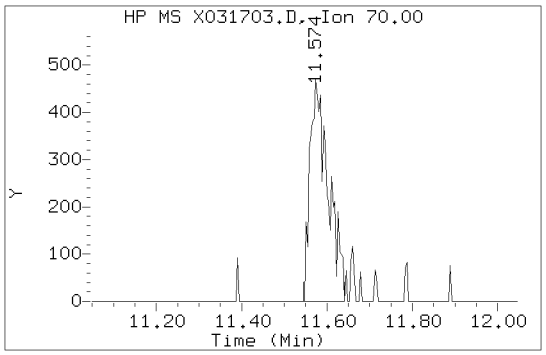
AFTER
MASS
55
AREA
2268
HEIGHT
859
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
70
AREA
1400
HEIGHT
469
21-Mar-2023
10:17
linh
pham



AFTER
MASS
70
AREA
1400
HEIGHT
469
21-Mar-2023
10:17
linh
pham



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Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

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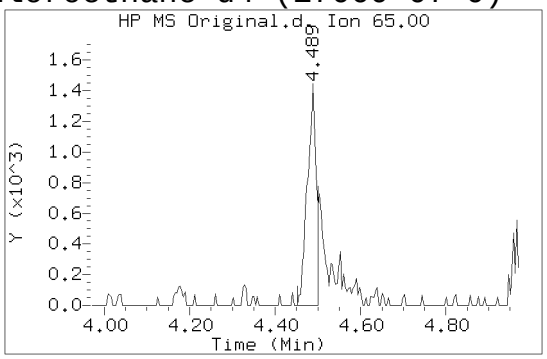

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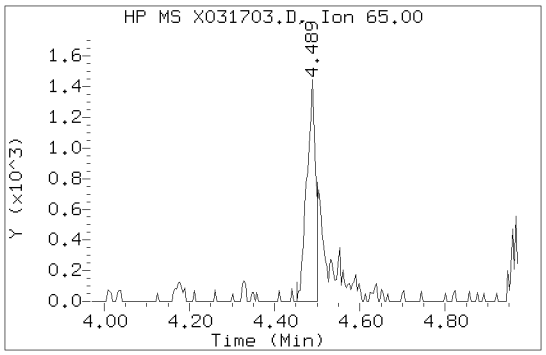

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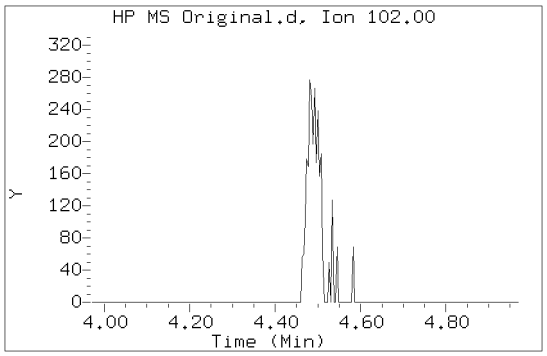

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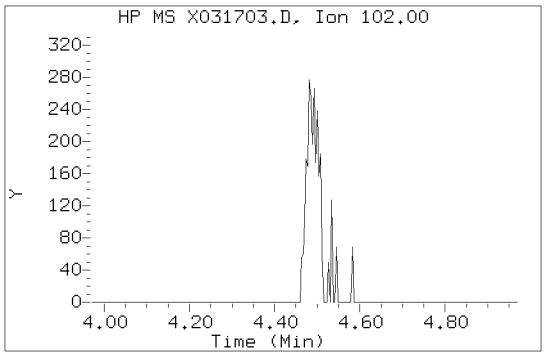

Toluene-d8 (2037-26-5)

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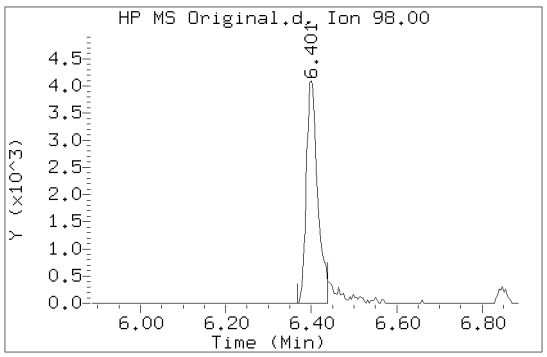

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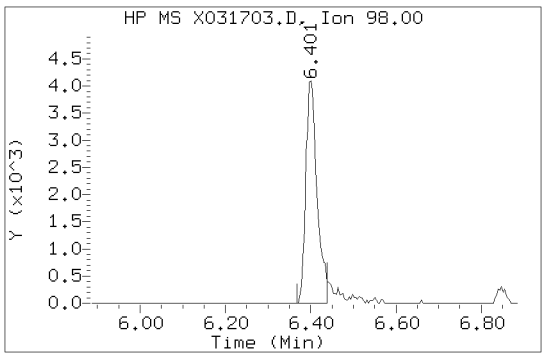

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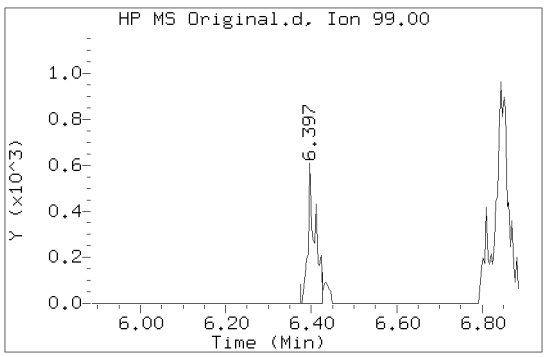

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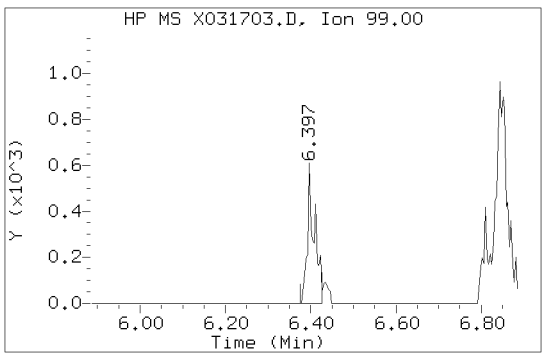

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LabSampID : VSTD000.5

Toluene-d8 (2037-26-5)

Reason Code:

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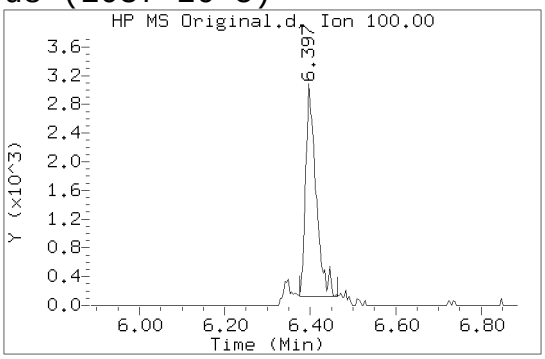

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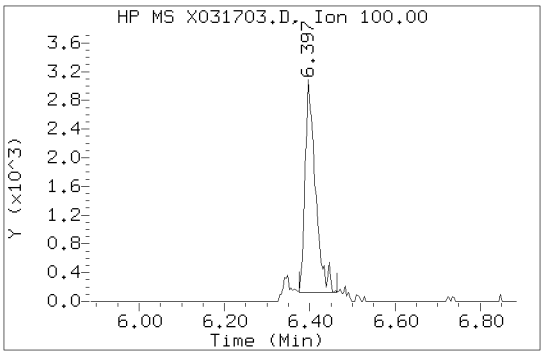

4-Bromofluorobenzene (460-00-4)

Reason Code:

BEFORE

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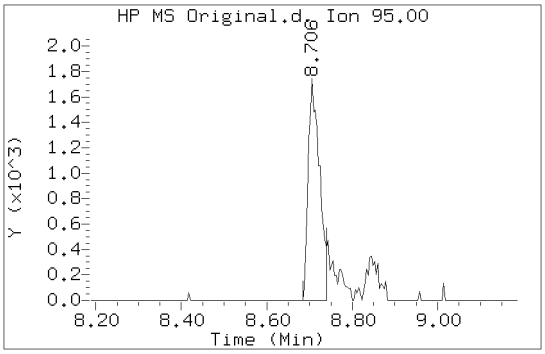

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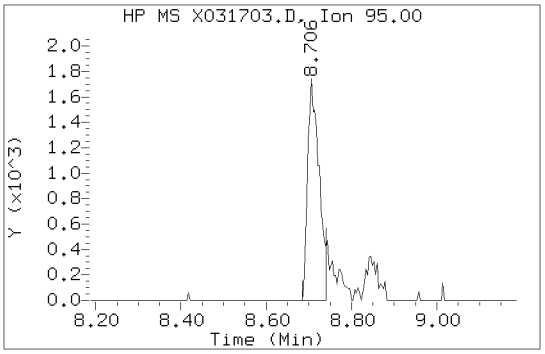

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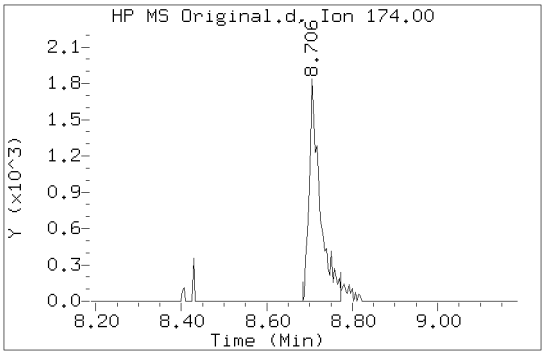

AFTER

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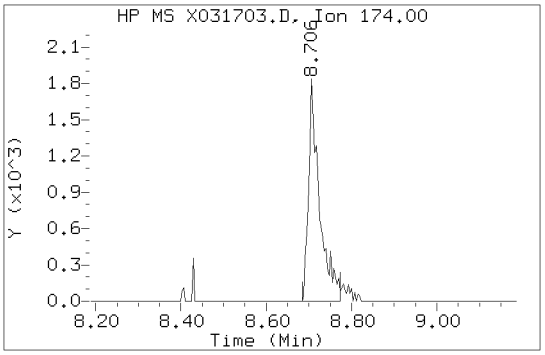

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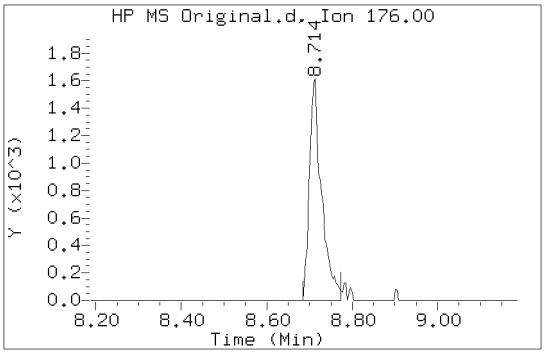

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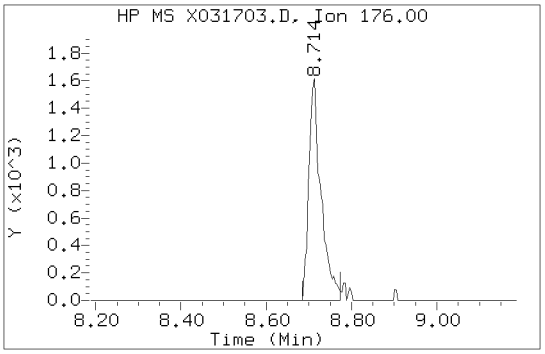

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Report Date: 21-Mar-2023 10:19

ALS Laboratory Group

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Smp Info : VSTD001;VSTD001;1;3;
Misc Info : V6;WATER;0;1;
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Cal Date : 17-MAR-2023 12:11 Cal File: X031703.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.178	4.178	(1.000)	364329	50.0000	
2	Dichlorodifluoromethane	85	0.973	0.973	(0.233)	2581	1.00000	1.64
3	Chloromethane	50	1.077	1.077	(0.258)	3230	1.00000	0.96
4	Propionitrile	54	3.675	3.675	(0.880)	6068	10.0000	11.82(a)
5	Vinyl Chloride	62	1.141	1.141	(0.273)	2576	1.00000	0.89
6	Bromomethane	94	1.336	1.336	(0.320)	1662	1.00000	1.00
7	Chloroethane	64	1.407	1.407	(0.337)	2280	1.00000	1.12(M)
8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	3466	1.00000	1.01(M)
9	Acrolein	56	1.445	1.445	(0.346)	474	2.00000	5.33(aM)
11	1,1-Dichloroethene	96	1.910	1.910	(0.457)	2453	1.00000	1.12(M)
12	Isobutyl Alcohol	43	4.680	4.680	(1.120)	10398	20.0000	20.91(a)
13	Acetonitrile	39	2.202	2.202	(0.527)	3936	10.0000	11.60(a)
14	Allyl Chloride	41	2.206	2.206	(0.528)	9372	1.00000	1.11(aM)
15	Iodomethane	142	2.026	2.026	(0.485)	1627	2.00000	9.87(TM)
16	Acrylonitrile	53	2.577	2.577	(0.617)	2507	2.00000	2.06(M)
18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	12777	1.00000	1.10(M)
19	Carbon Disulfide	76	2.071	2.071	(0.496)	15617	2.00000	1.94(M)
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.607)	3296	1.00000	1.06
21	Vinyl Acetate	43	3.031	3.031	(0.725)	17097	2.00000	1.83(M)
22	1,1-Dichloroethane	63	2.929	2.929	(0.701)	5819	1.00000	1.04

23 Chloroprene	53	1.767	1.767 (0.423)	1110	1.00000	1.11(aM)
24 2-Butanone	43	3.664	3.664 (0.877)	2545	2.00000	1.95(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	25 Methacrylonitrile	41	3.851	3.851	(0.922)	3707	1.00000	1.10(a)
	26 2,2-Dichloropropane	77	3.514	3.514	(0.841)	4259	1.00000	0.71
	27 cis-1,2-Dichloroethene	96	3.537	3.537	(0.847)	3925	1.00000	1.05
	28 Chloroform	83	3.904	3.904	(0.935)	6512	1.00000	1.04
	29 Bromochloromethane	128	3.803	3.803	(0.910)	2274	1.00000	1.07
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	4629	1.00000	0.99
	32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	4436	1.00000	1.06
	33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	5038	1.00000	1.03
	34 Carbon Tetrachloride	117	4.256	4.256	(0.857)	4405	1.00000	1.10
$	35 1,2-Dichloroethane-d4	65	4.485	4.485	(1.074)	4794	1.00000	2.24(M)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	585447	50.0000	
	37 Benzene	78	4.515	4.515	(0.909)	15392	1.00000	1.06
	38 Trichloroethene	130	5.216	5.216	(1.051)	4000	1.00000	1.03(a)
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	5190	1.00000	1.01(aM)
	40 Methyl Methacrylate	41	5.625	5.625	(1.346)	3255	1.00000	1.00(a)
	41 2-Chloroethylvinyl ether	63	6.078	6.078	(1.224)	3065	2.00000	1.97(aM)
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	4197	1.00000	1.08(aM)
	43 2-Nitropropane	43	5.981	5.981	(1.432)	1281	1.00000	1.11(aMH)
	44 Dibromomethane	93	5.561	5.561	(1.120)	2580	1.00000	1.04(a)
	45 4-Methyl-2-Pentanone	43	6.344	6.344	(0.827)	6390	2.00000	1.81(a)
	46 cis-1,3-Dichloropropene	75	6.164	6.164	(1.242)	5979	1.00000	0.92(a)
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	557694	50.0000	
$	48 Toluene-d8	98	6.393	6.393	(0.834)	16213	1.00000	1.17(a)
	49 Ethyl Methacrylate	69	6.719	6.719	(1.353)	4689	1.00000	1.08(aM)
	50 Toluene	91	6.453	6.453	(0.842)	15109	1.00000	1.03(a)
	51 trans-1,3-Dichloropropene	75	6.697	6.697	(1.349)	5091	1.00000	0.95(aM)
	52 2-Hexanone	43	7.117	7.117	(0.928)	4286	2.00000	1.76(a)
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	3242	1.00000	1.01(a)
	54 1,3-Dichloropropane	76	6.985	6.985	(0.911)	6514	1.00000	1.03(a)
	55 Dibromochloromethane	129	7.180	7.180	(0.936)	4441	1.00000	0.98(a)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	2953	1.00000	1.00(a)
	57 1,2-Dibromoethane	107	7.270	7.270	(0.948)	3736	1.00000	0.95(a)
	58 1-Chlorohexane	55	7.701	7.701	(1.551)	3010	1.00000	3.26(a)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	10830	1.00000	1.03(a)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	3954	1.00000	0.98(a)
	61 Ethylbenzene	106	7.806	7.806	(1.018)	5432	1.00000	1.05(a)
	62 m,p-Xylenes	106	7.911	7.911	(1.032)	13391	2.00000	2.06(a)
	63 o-Xylene	106	8.245	8.245	(1.075)	6862	1.00000	1.05(a)
	64 Styrene	104	8.279	8.279	(1.080)	10253	1.00000	0.95(a)
	66 Bromoform	173	8.414	8.414	(1.097)	2861	1.00000	0.92(Ta)
	67 Isopropylbenzene	105	8.564	8.564	(1.117)	16205	1.00000	1.08(a)
	68 1,1,2,2-Tetrachloroethane	83	8.845	8.845	(0.915)	5298	1.00000	0.97(a)
$	69 4-Bromofluorobenzene	95	8.702	8.702	(1.135)	6673	1.00000	1.08(a)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	311948	50.0000	
	71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	4038	1.00000	0.98(a)
	72 trans-1,4-Dichloro-2-butene	53	8.923	8.923	(1.164)	1007	1.00000	1.33(a)
	73 n-Propylbenzene	91	8.920	8.920	(0.923)	17590	1.00000	1.01(a)
	74 Bromobenzene	156	8.818	8.818	(0.913)	5103	1.00000	1.01(a)
	75 1,3,5-Trimethylbenzene	105	9.077	9.077	(0.939)	14021	1.00000	1.04(a)
	76 2-Chlorotoluene	91	8.983	8.983	(0.930)	12773	1.00000	1.09(aM)
	77 4-Chlorotoluene	91	9.081	9.081	(0.940)	12573	1.00000	0.95(a)
	78 tert-Butylbenzene	119	9.339	9.339	(0.967)	11682	1.00000	1.09(a)

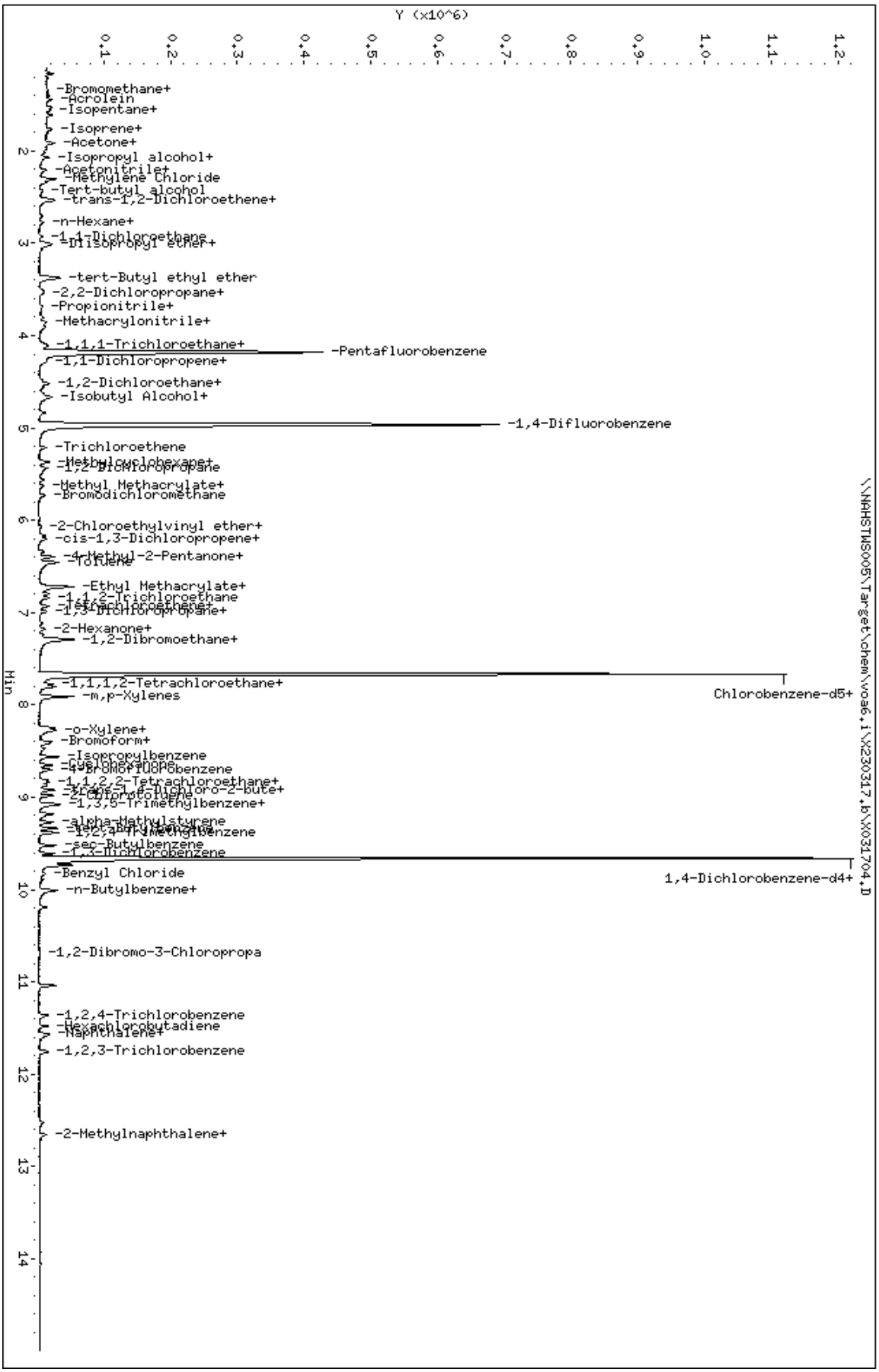
79 1,2,4-Trimethylbenzene	105	9.384	9.384 (0.971)	13929	1.00000	1.00(a)
81 sec-Butylbenzene	105	9.523	9.523 (0.986)	15472	1.00000	1.06(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	82 p-Isopropyltoluene	119	9.654	9.654	(0.999)	12841	1.00000	0.99(a)
	83 1,3-Dichlorobenzene	146	9.613	9.613	(0.995)	8638	1.00000	0.99(a)
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	9909	1.00000	1.06(a)
	86 Benzyl Chloride	91	9.831	9.831	(1.282)	6470	1.00000	2.25(aM)
	87 n-Butylbenzene	91	10.014	10.014	(1.036)	10261	1.00000	0.98(a)
	88 1,2-Dichlorobenzene	146	10.007	10.007	(1.036)	8419	1.00000	0.97(a)
	89 1,2-Dibromo-3-Chloropropane	155	10.685	10.685	(1.106)	779	1.00000	2.23(aM)
	90 1,2,4-Trichlorobenzene	180	11.368	11.368	(1.177)	5456	1.00000	0.86(a)
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	2560	1.00000	2.85(a)
	92 Naphthalene	128	11.574	11.574	(1.198)	13748	1.00000	0.90(a)
	93 1,2,3-Trichlorobenzene	180	11.754	11.754	(1.216)	5673	1.00000	0.93(a)
	146 Methyl acetate	43	2.251	2.251	(0.539)	1632	1.00000	0.77(a)
	138 Freon TF	101	1.917	1.917	(0.459)	2078	1.00000	2.25(aM)
	141 Cyclohexane	56	4.125	4.125	(0.987)	3748	1.00000	2.72(aM)
	142 Tetrahydrofuran	42	3.866	3.866	(0.926)	1179	2.00000	1.98(aM)
	147 Methylcyclohexane	55	5.366	5.366	(1.081)	7595	1.00000	0.93(aM)
	135 1,4-Dioxane	88	5.625	5.625	(1.346)	953	20.0000	19.71(aM)
	132 n-Butanol	56	5.366	5.366	(1.284)	1715	20.0000	49.33(aM)
	131 Methyl Acrylate	55	3.758	3.758	(0.900)	3267	1.00000	0.86(aM)
	133 Ethyl Acrylate	55	5.366	5.366	(1.284)	8164	1.00000	1.02(M)
	136 n-Hexane	57	2.776	2.776	(0.664)	2771	1.00000	1.64(aM)
	139 Diethyl ether	59	1.756	1.756	(0.420)	2934	1.00000	1.20(aM)
	148 Tert-butyl alcohol	59	2.431	2.431	(0.582)	6630	20.0000	17.37
	149 Isopropyl alcohol	45	2.101	2.101	(0.503)	3783	20.0000	18.55(T)
	156 Diisopropyl ether	45	3.001	3.001	(0.718)	13564	1.00000	1.19(Ta)
	160 2-Methylnaphthalene	142	12.657	12.657	(1.310)	5189	1.00000	0.68(a)
	166 1,2,3-Trimethylbenzene	105	9.733	9.733	(1.007)	17375	1.00000	1.16(aM)
	167 Ethanol	45	1.704	1.704	(0.408)	656	20.0000	20.07(M)
	172 tert-Butyl formate	59	4.627	4.627	(1.108)	5691	2.00000	1.91(aM)
	173 3,3-Dimethyl-1-butanol	57	7.293	7.293	(0.951)	9512	20.0000	22.13(M)
	174 tert-Amyl methyl ether	73	4.665	4.665	(1.117)	14951	1.00000	1.14(aM)
	175 tert-Butyl ethyl ether	59	3.375	3.375	(0.808)	13706	1.00000	1.15(aM)
	176 tert-Amyl alcohol	59	4.627	4.627	(1.108)	6256	20.0000	20.06
	151 4-Methyl-2-pentanol	45	6.719	6.719	(1.353)	18895	20.0000	22.11(M)
	180 1-Methylnaphthalene	142	12.657	12.657	(1.310)	5189	1.00000	(a)
	140 1,3-Butadiene	54	1.164	1.164	(0.279)	2590	1.00000	1.04(a)
	152 Amyl alcohol	42	6.978	6.978	(0.910)	1880	20.0000	18.70(M)
	158 Dichlorofluoromethane	67	1.531	1.531	(0.367)	5093	1.00000	1.12(M)
	159 Propylene oxide	43	1.812	1.812	(0.434)	432	2.00000	1.90(aM)
	161 3-Methyl-1-butanol	55	6.952	6.952	(0.907)	1791	20.0000	18.40(M)
	162 Butyl acrylate	55	8.275	8.275	(1.079)	9286	1.00000	1.12(a)
	182 Epichlorohydrin	57	6.116	6.116	(1.232)	1658	4.00000	4.96(aM)
M	94 1,2-Dichloroethylene (total)	96				7221	2.00000	(a)
	130 Ethyl Acetate	43	3.690	3.690	(0.883)	3592	1.00000	0.95(aM)
	134 Cyclohexanone	55	8.650	8.650	(0.895)	3987	20.0000	21.52(aM)
	185 Isoprene	39	1.775	1.775	(0.425)	823	1.00000	1.17(a)
	188 Isopropyl acetate	43	4.680	4.680	(0.943)	11803	1.00000	1.11(a)
	187 n-Amyl acetate	43	8.474	8.474	(1.105)	6908	1.00000	0.99(aM)
	189 n-Butyl acetate	43	7.237	7.237	(0.944)	5102	1.00000	0.86(a)
	150 Allyl alcohol	57	2.776	2.776	(0.664)	2361	20.0000	28.41(M)
	195 Methyl Amyl Ketone	43	8.399	8.399	(1.095)	9932	1.00000	1.12(aM)
	200 Dimethyl Disulfide	94	6.209	6.209	(0.810)	6718	1.00000	0.91(aM)

202 Isobutylene	41	1.239	1.239 (0.297)	321	1.00000	1.05(aM)
205 2-Ethylhexyl Acrylate	55	11.562	11.562 (1.197)	4375	1.00000	0.95(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Date : 17-MAR-2023 12:32
Client ID: VSTD001
Sample Info: VSTD001;VSTD001;1;3;
Purge Volume: 5.0
Column phase: DB624

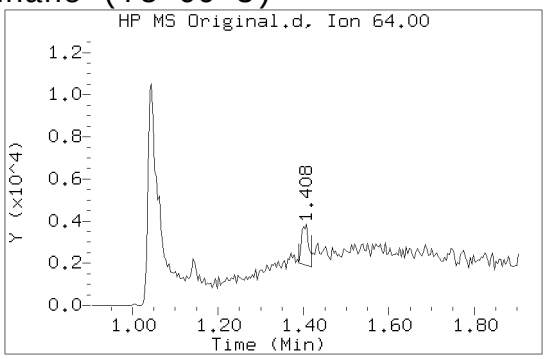
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

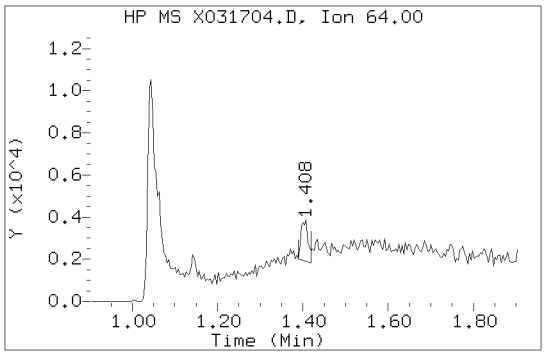
Chloroethane (75-00-3)

Reason Code:

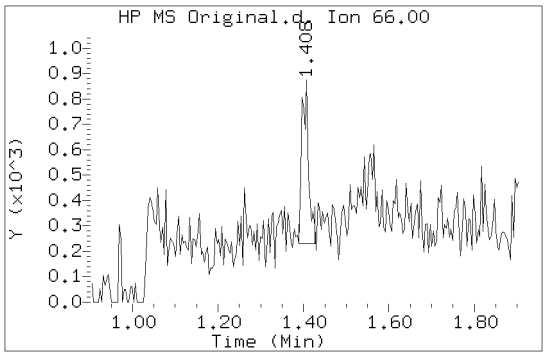
BEFORE
MASS
64
AREA
2280
HEIGHT
1975
21-Mar-2023
10:17
linh
pham



AFTER
MASS
64
AREA
2280
HEIGHT
1975
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
66
AREA
723
HEIGHT
645
21-Mar-2023
10:17
linh
pham



AFTER
MASS
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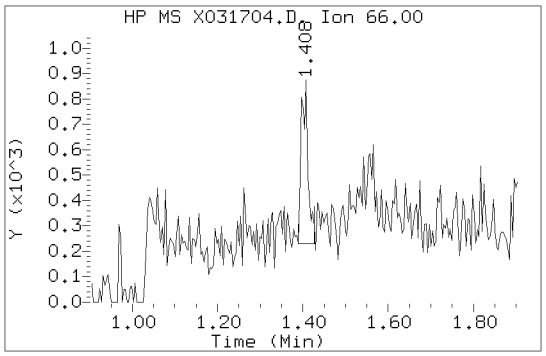
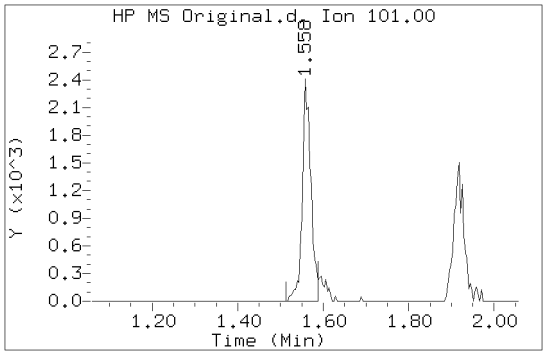
AREA
723
HEIGHT
645
21-Mar-2023
10:17
linh
pham



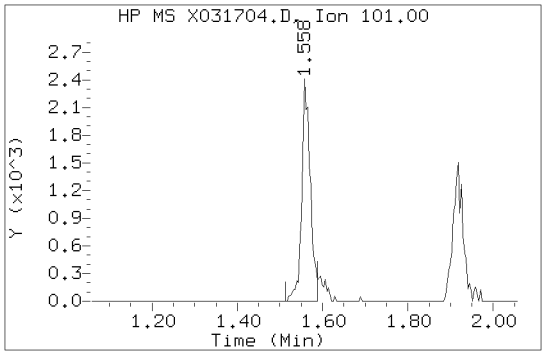
Trichlorofluoromethane (75-69-4)

Reason Code:

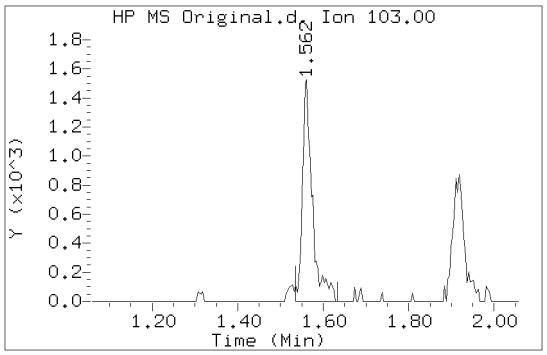
BEFORE
MASS
101
AREA
3466
HEIGHT
2410
21-Mar-2023
10:17
linh
pham



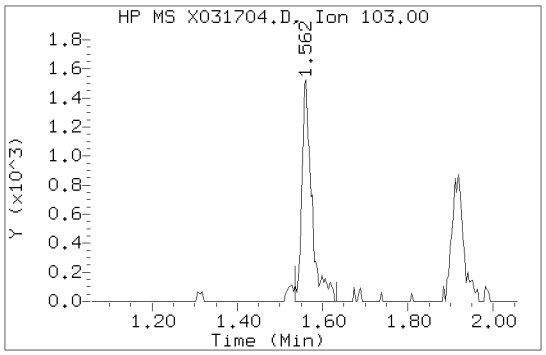
AFTER
MASS
101
AREA
3466
HEIGHT
2410
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
103
AREA
2518
HEIGHT
1526
21-Mar-2023
10:17
linh
pham



AFTER
MASS
103
AREA
2518
HEIGHT
1526
21-Mar-2023
10:17
linh
pham



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Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Acetone (67-64-1)

Reason Code:

BEFORE

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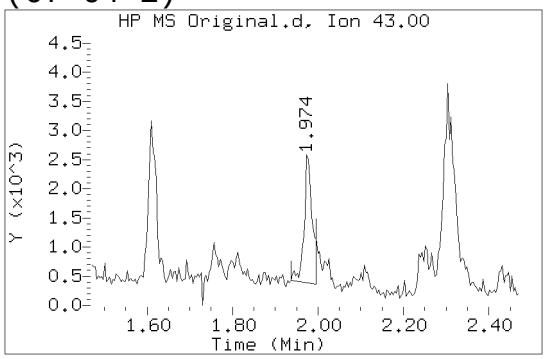
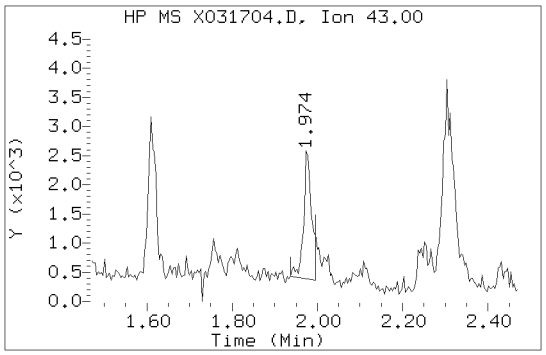
AREA
2978
HEIGHT
2197
21-Mar-2023
10:17
linh
pham



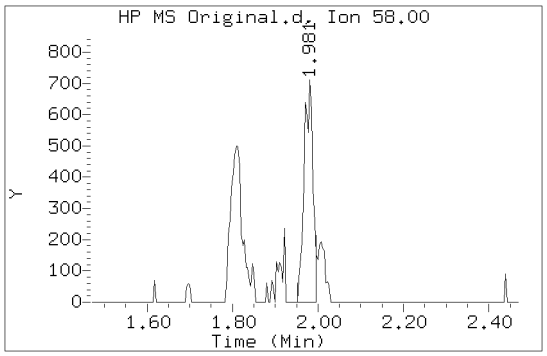
AFTER

MASS
43
AREA
2978
HEIGHT
2197
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
58
AREA
1051
HEIGHT
711
21-Mar-2023
10:17
linh
pham



AFTER

MASS
58
AREA
1051
HEIGHT
711
21-Mar-2023
10:17
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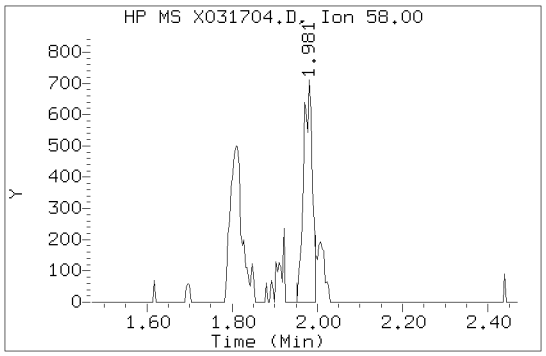
pham

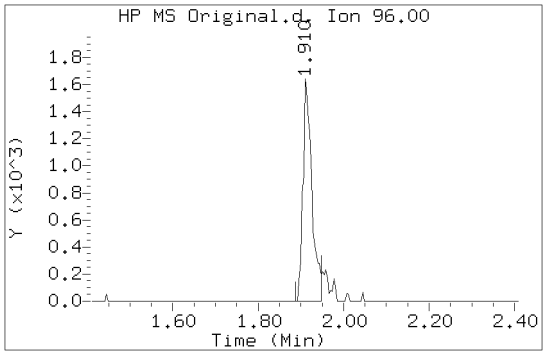


1,1-Dichloroethene (75-35-4)

Reason Code:

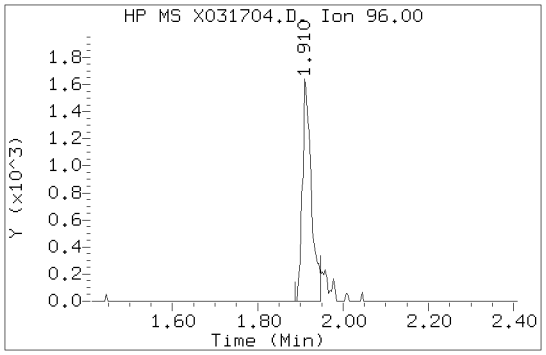
BEFORE

MASS
96
AREA
2453
HEIGHT
1642
21-Mar-2023
10:17
linh
pham



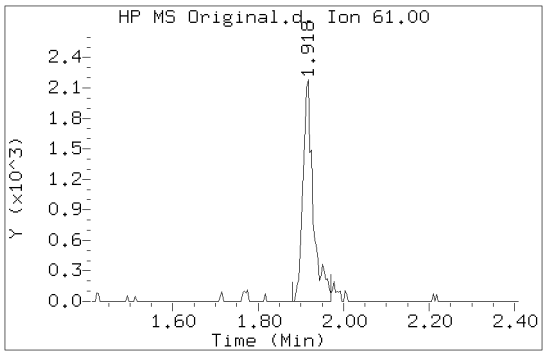
AFTER

MASS
96
AREA
2453
HEIGHT
1642
21-Mar-2023
10:17
linh
pham



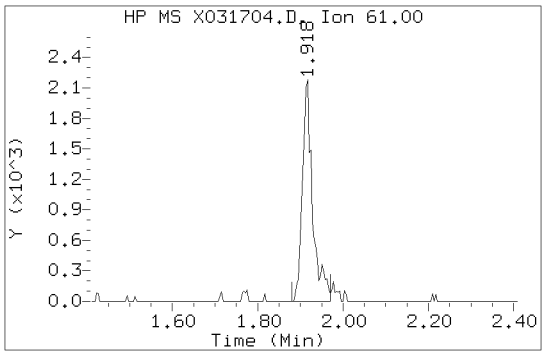
BEFORE

MASS
61
AREA
3712
HEIGHT
2181
21-Mar-2023
10:17
linh
pham



AFTER

MASS
61
AREA
3712
HEIGHT
2181
21-Mar-2023
10:17
linh
pham

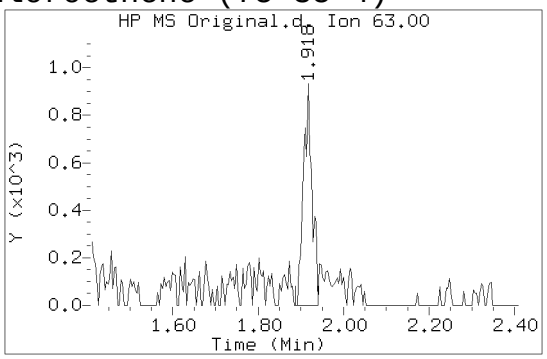


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,1-Dichloroethene (75-35-4)

BEFORE

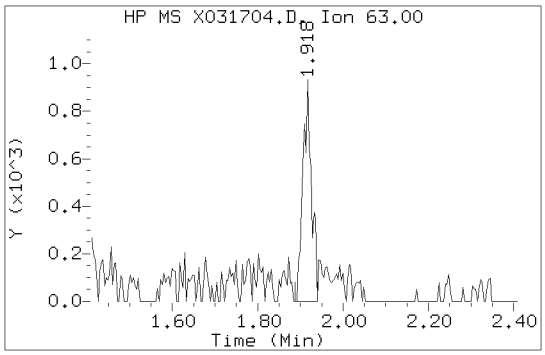
MASS
63
AREA
1331
HEIGHT
933
21-Mar-2023
10:17
linh
pham



Reason Code:

AFTER

MASS
63
AREA
1331
HEIGHT
933
21-Mar-2023
10:17
linh
pham



Iodomethane (74-88-4)

BEFORE

MASS
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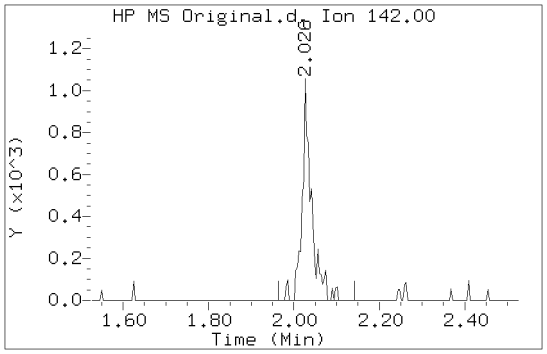
AREA
1627
HEIGHT
1057
21-Mar-2023
10:17
linh
pham



Reason Code:

AFTER

MASS
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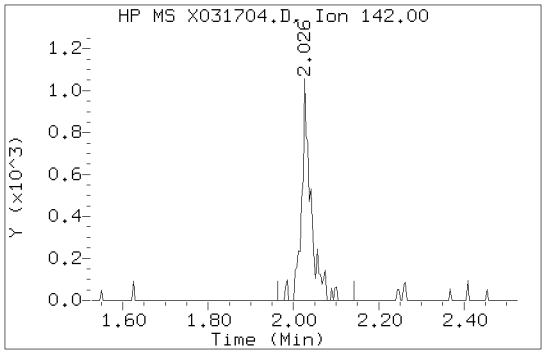
AREA
1627
HEIGHT
1057
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
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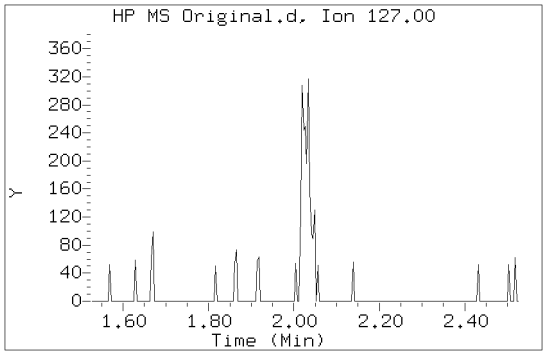
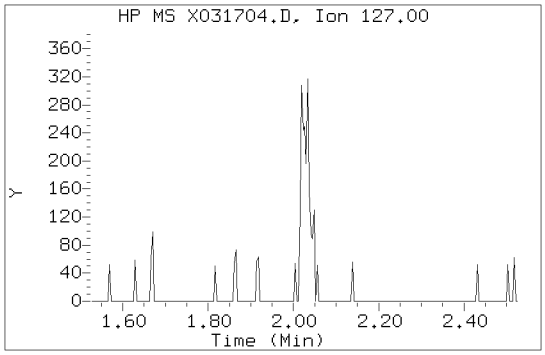
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
127
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
141
AREA
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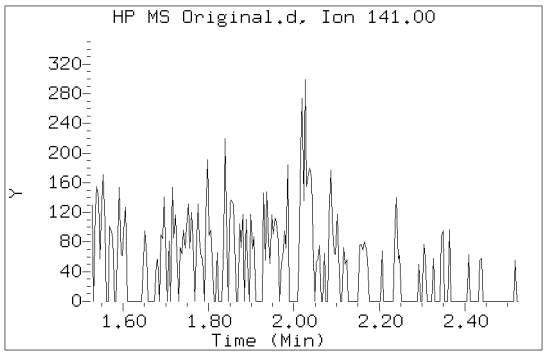
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
141
AREA
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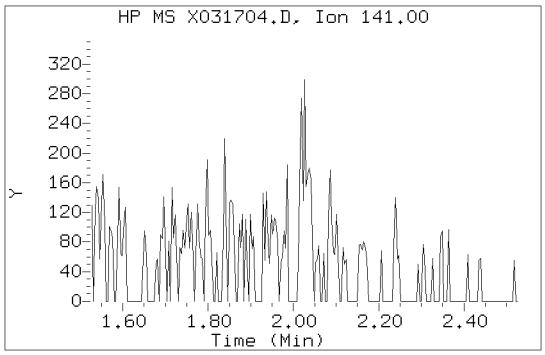
HEIGHT
0
21-Mar-2023
10:17
linh
pham



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Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Acrylonitrile (107-13-1)

Reason Code:

BEFORE

MASS
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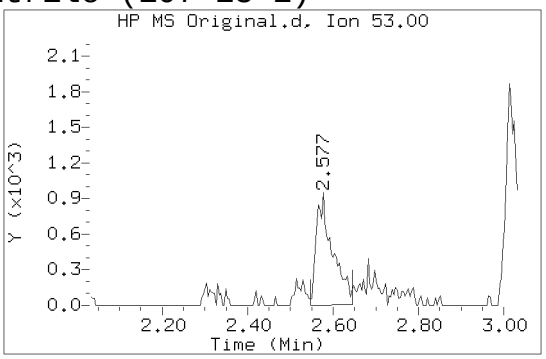
AREA
2507
HEIGHT
949
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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AREA
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HEIGHT
949
21-Mar-2023
10:17
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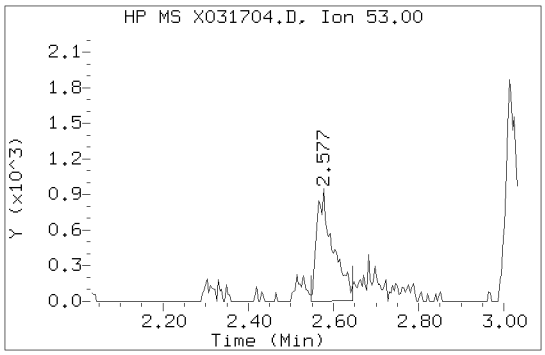
pham



BEFORE

MASS
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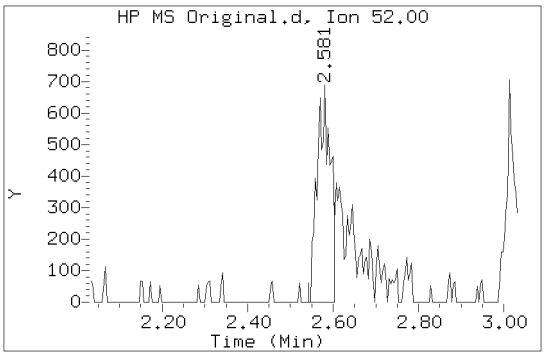
AREA
1471
HEIGHT
690
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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AREA
1471
HEIGHT
690
21-Mar-2023
10:17
linh
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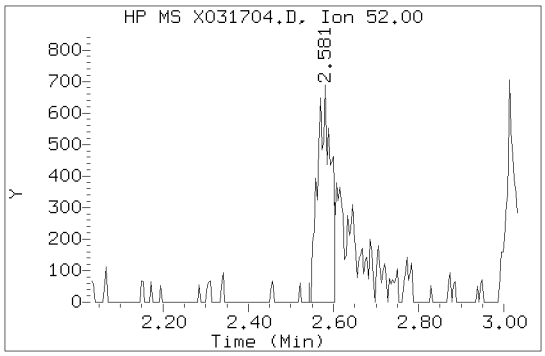

BEFORE

MASS
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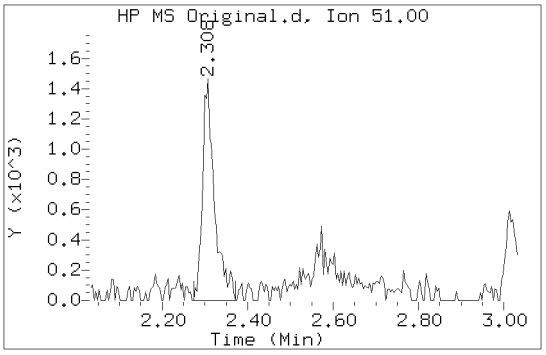
AREA
2836
HEIGHT
1466
21-Mar-2023
10:17
linh
pham



AFTER

MASS
51
AREA
2836
HEIGHT
1466
21-Mar-2023
10:17
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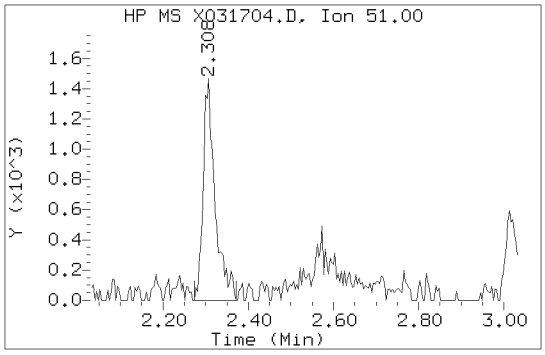
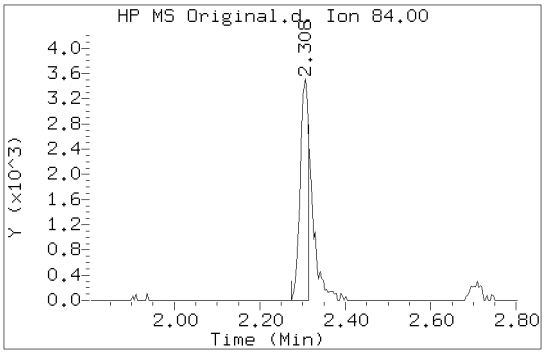


Methylene Chloride (75-09-2)

Reason Code:

BEFORE

MASS
84
AREA
4854
HEIGHT
3518
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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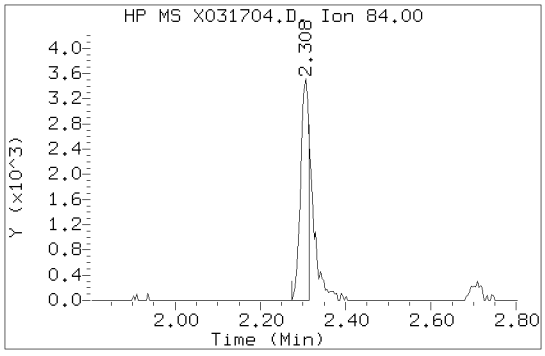
AREA
4854
HEIGHT
3518
21-Mar-2023
10:17
linh
pham



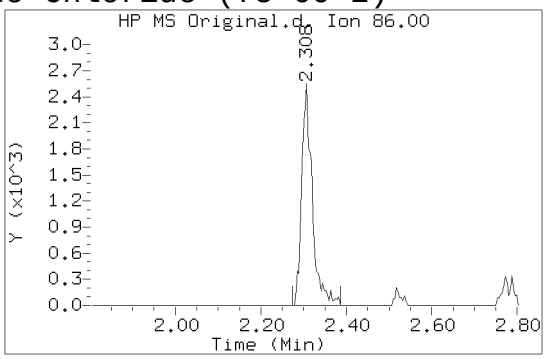
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Methylene Chloride (75-09-2)

Reason Code:

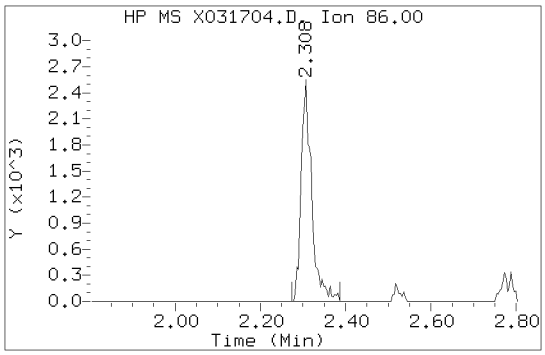
BEFORE

MASS
86
AREA
4483
HEIGHT
2551
21-Mar-2023
10:17
linh
pham



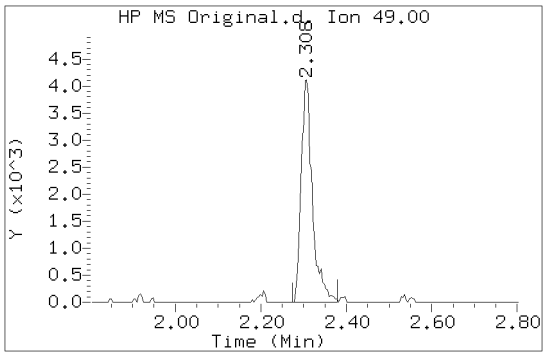
AFTER

MASS
86
AREA
4483
HEIGHT
2551
21-Mar-2023
10:17
linh
pham



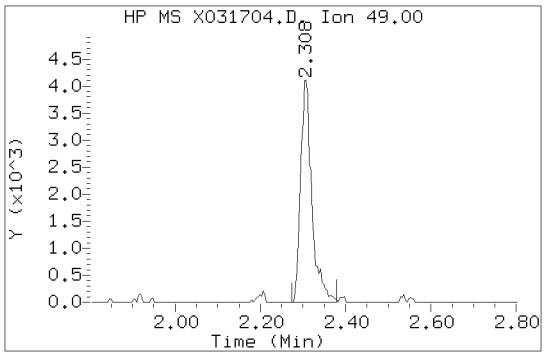
BEFORE

MASS
49
AREA
7704
HEIGHT
4113
21-Mar-2023
10:17
linh
pham



AFTER

MASS
49
AREA
7704
HEIGHT
4113
21-Mar-2023
10:17
linh
pham

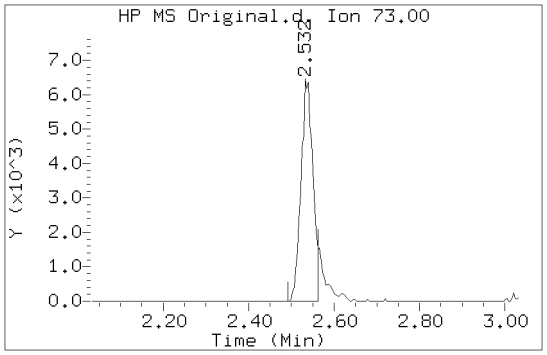


Methyl tert-butyl ether (1634-04-4)

Reason Code:

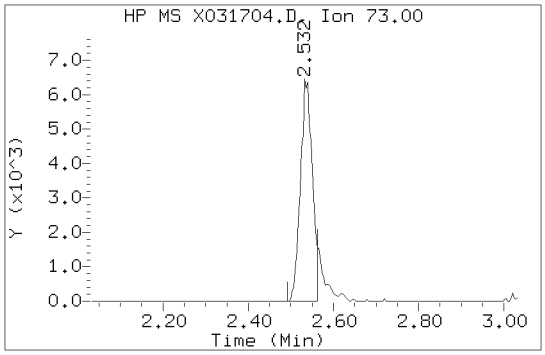
BEFORE

MASS
73
AREA
12777
HEIGHT
6459
21-Mar-2023
10:17
linh
pham



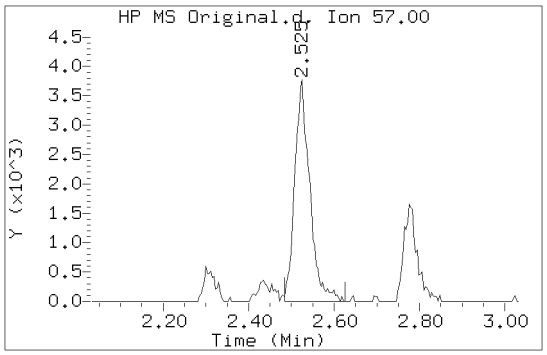
AFTER

MASS
73
AREA
12777
HEIGHT
6459
21-Mar-2023
10:17
linh
pham



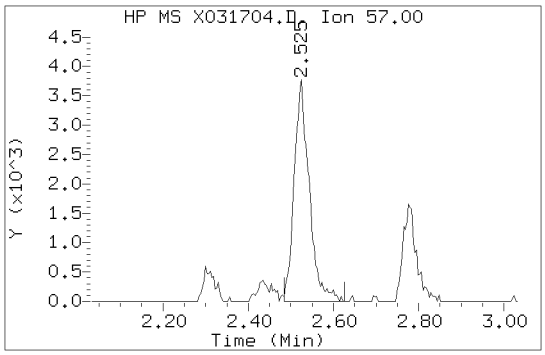
BEFORE

MASS
57
AREA
9359
HEIGHT
3774
21-Mar-2023
10:17
linh
pham



AFTER

MASS
57
AREA
9359
HEIGHT
3774
21-Mar-2023
10:17
linh
pham



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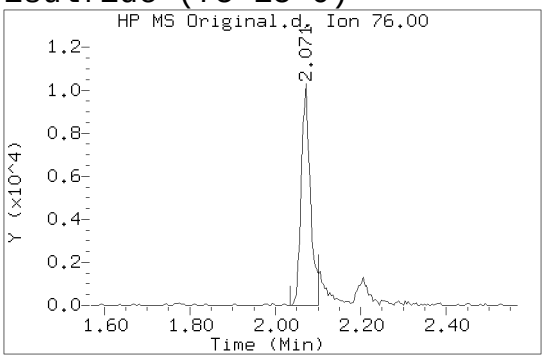
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

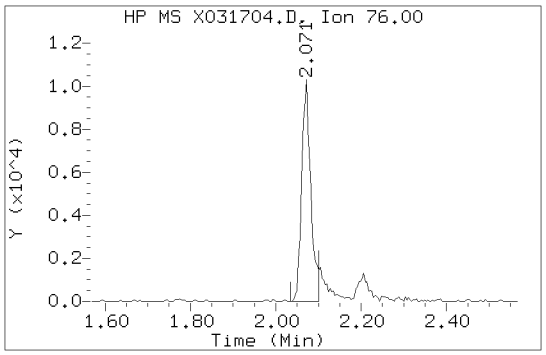
Carbon Disulfide (75-15-0)

Reason Code:

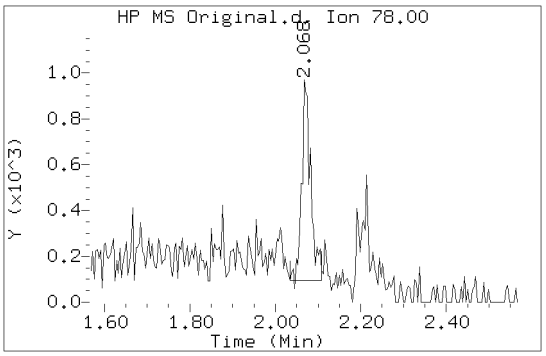
BEFORE
MASS
76
AREA
15617
HEIGHT
10310
21-Mar-2023
10:17
linh
pham



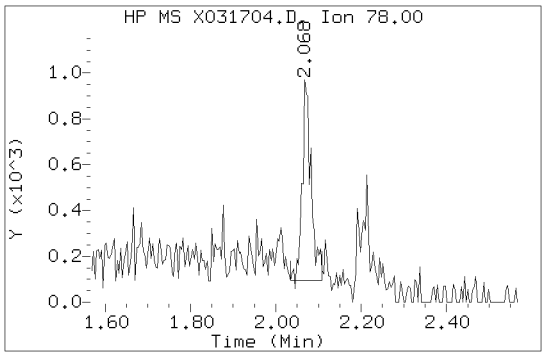
AFTER
MASS
76
AREA
15617
HEIGHT
10310
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
78
AREA
1293
HEIGHT
874
21-Mar-2023
10:17
linh
pham



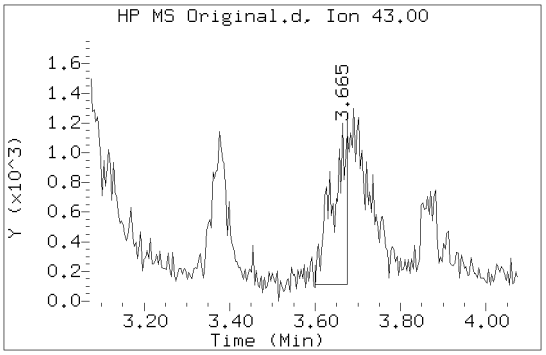
AFTER
MASS
78
AREA
1293
HEIGHT
874
21-Mar-2023
10:17
linh
pham



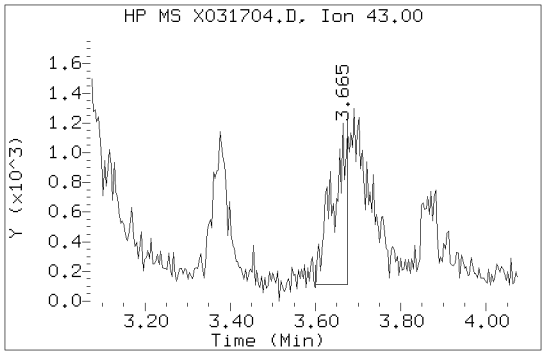
2-Butanone (78-93-3)

Reason Code:

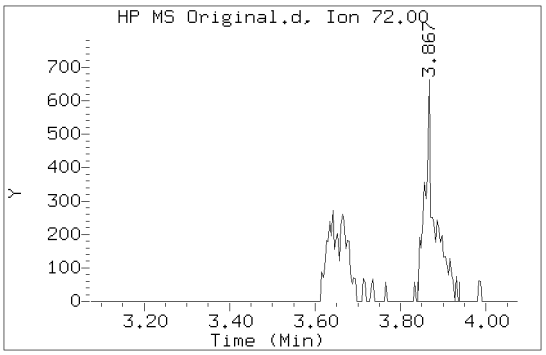
BEFORE
MASS
43
AREA
2545
HEIGHT
1088
21-Mar-2023
10:17
linh
pham



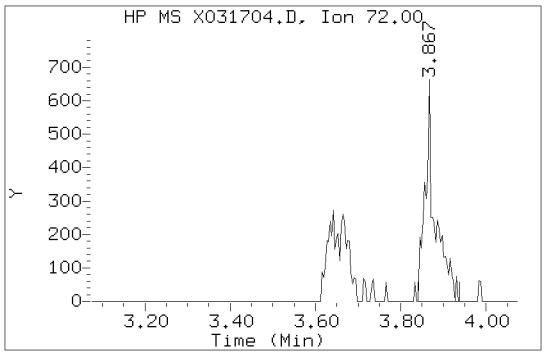
AFTER
MASS
43
AREA
2545
HEIGHT
1088
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
72
AREA
1089
HEIGHT
663
21-Mar-2023
10:17
linh
pham



AFTER
MASS
72
AREA
1089
HEIGHT
663
21-Mar-2023
10:17
linh
pham



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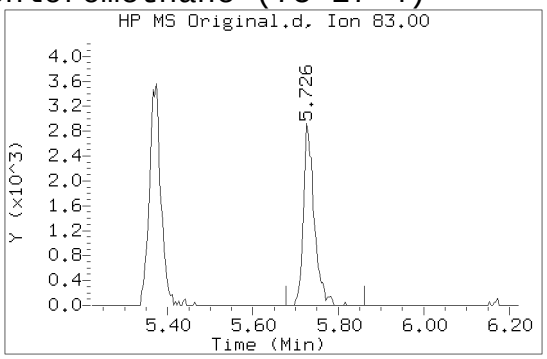
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

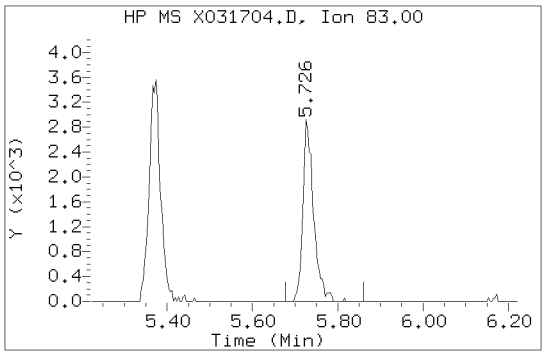
BEFORE

MASS
83
AREA
5190
HEIGHT
2922
21-Mar-2023
10:17
linh
pham



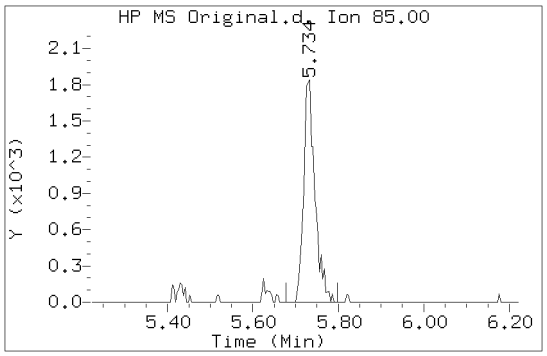
AFTER

MASS
83
AREA
5190
HEIGHT
2922
21-Mar-2023
10:17
linh
pham



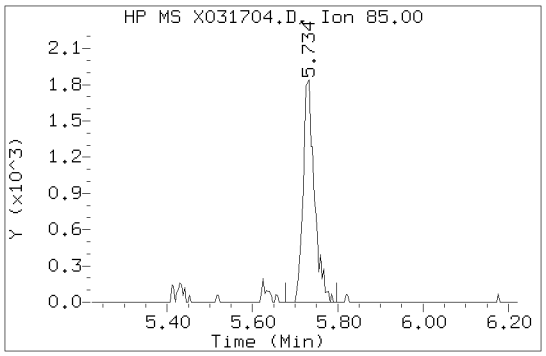
BEFORE

MASS
85
AREA
3444
HEIGHT
1839
21-Mar-2023
10:17
linh
pham



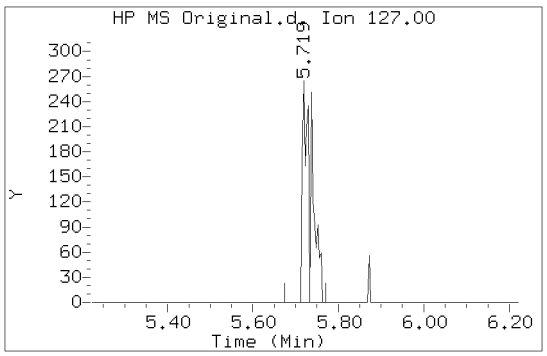
AFTER

MASS
85
AREA
3444
HEIGHT
1839
21-Mar-2023
10:17
linh
pham



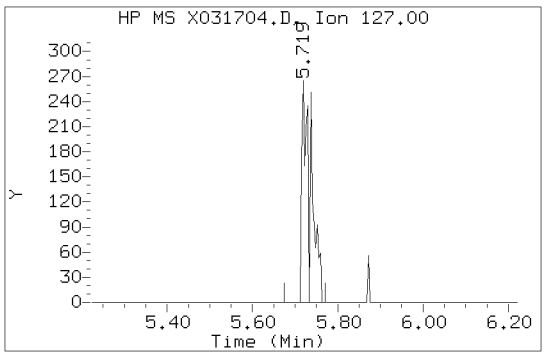
BEFORE

MASS
127
AREA
399
HEIGHT
265
21-Mar-2023
10:17
linh
pham



AFTER

MASS
127
AREA
399
HEIGHT
265
21-Mar-2023
10:17
linh
pham

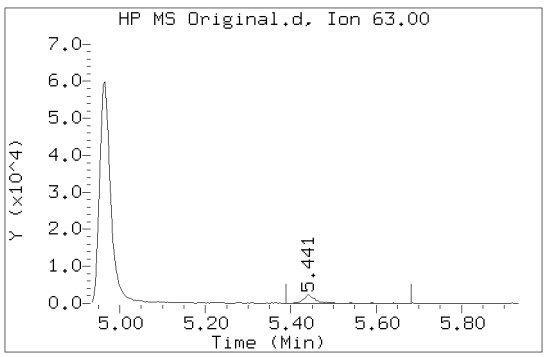


1,2-Dichloropropane (78-87-5)

Reason Code:

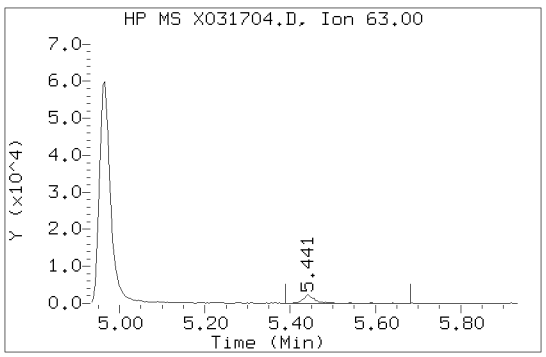
BEFORE

MASS
63
AREA
4197
HEIGHT
2459
21-Mar-2023
10:17
linh
pham



AFTER

MASS
63
AREA
4197
HEIGHT
2459
21-Mar-2023
10:17
linh
pham



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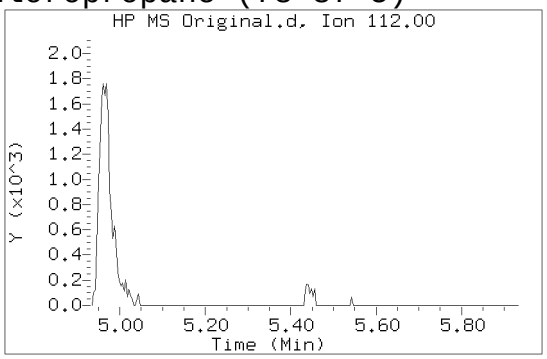
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,2-Dichloropropane (78-87-5)

Reason Code:

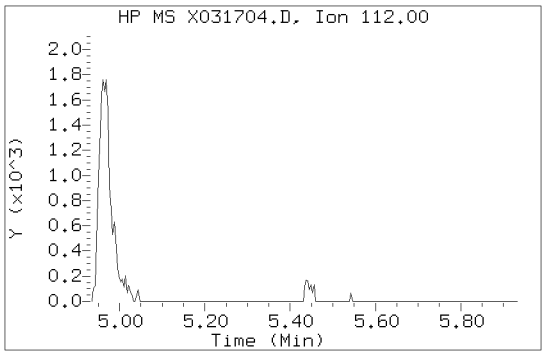
BEFORE

MASS
112
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
112
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

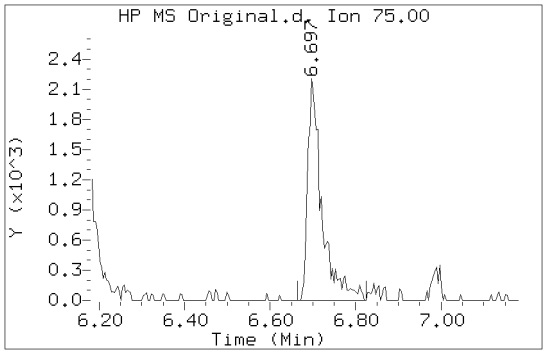


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

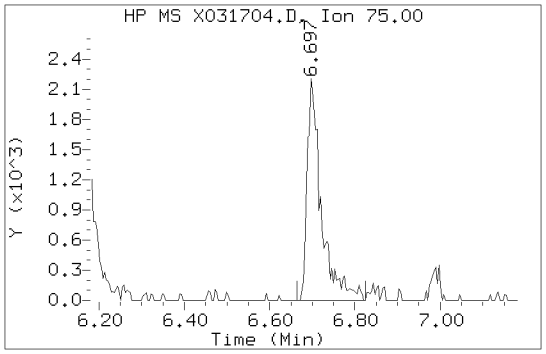
BEFORE

MASS
75
AREA
5091
HEIGHT
2206
21-Mar-2023
10:17
linh
pham



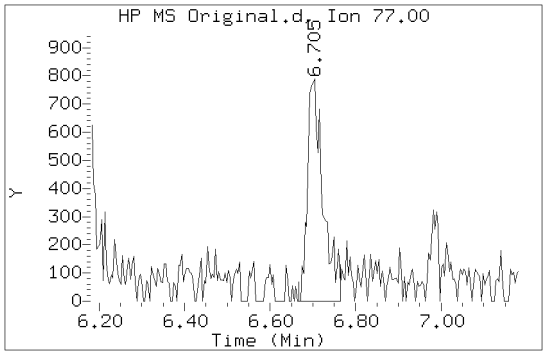
AFTER

MASS
75
AREA
5091
HEIGHT
2206
21-Mar-2023
10:17
linh
pham



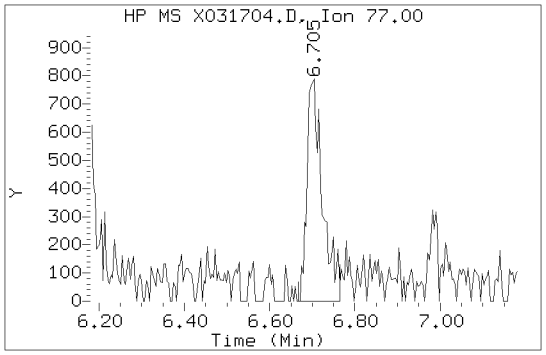
BEFORE

MASS
77
AREA
1993
HEIGHT
789
21-Mar-2023
10:17
linh
pham



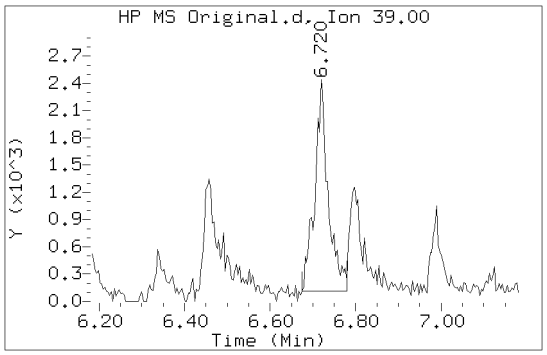
AFTER

MASS
77
AREA
1993
HEIGHT
789
21-Mar-2023
10:17
linh
pham



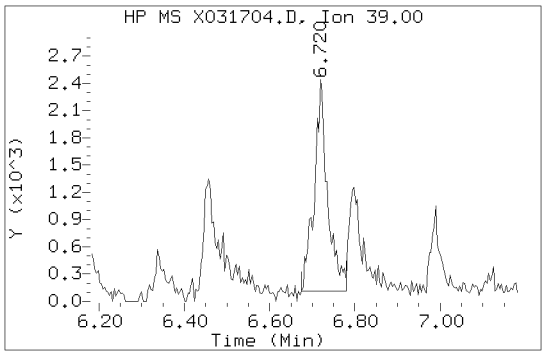
BEFORE

MASS
39
AREA
5092
HEIGHT
2329
21-Mar-2023
10:17
linh
pham



AFTER

MASS
39
AREA
5092
HEIGHT
2329
21-Mar-2023
10:17
linh
pham



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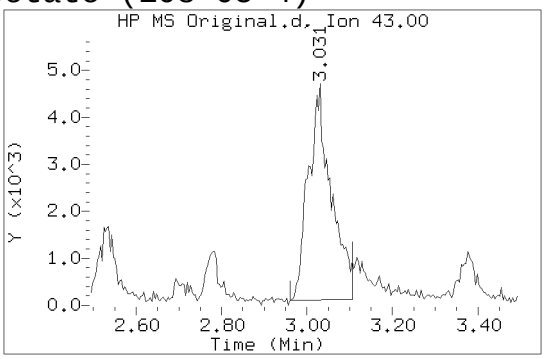
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Vinyl Acetate (108-05-4)

Reason Code:

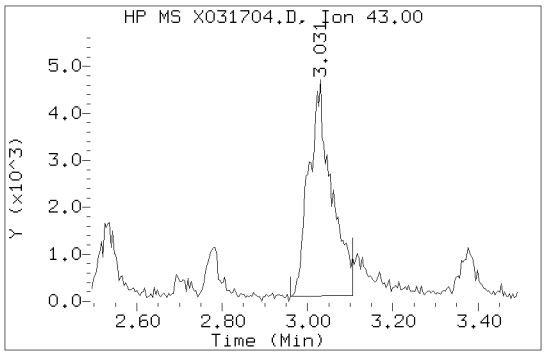
BEFORE

MASS
43
AREA
17097
HEIGHT
4603
21-Mar-2023
10:17
linh
pham



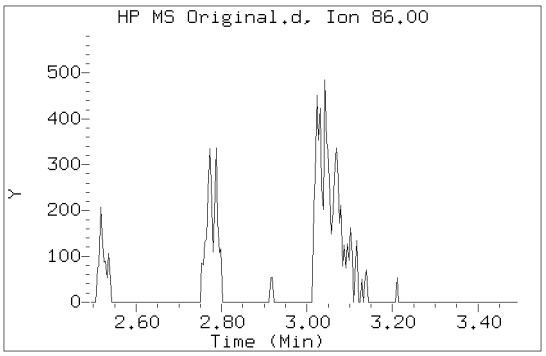
AFTER

MASS
43
AREA
17097
HEIGHT
4603
21-Mar-2023
10:17
linh
pham



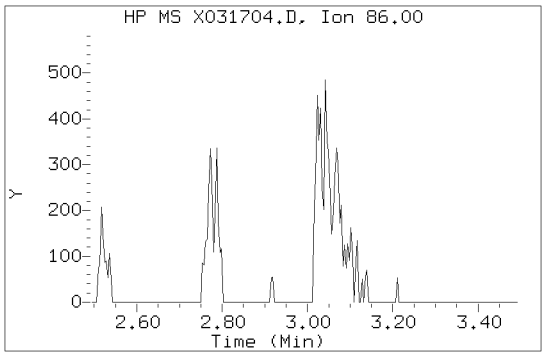
BEFORE

MASS
86
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
86
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

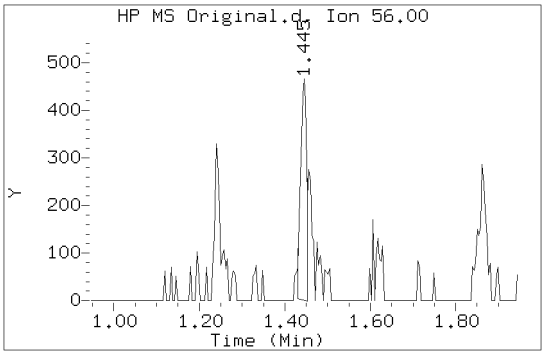


Acrolein (107-02-8)

Reason Code:

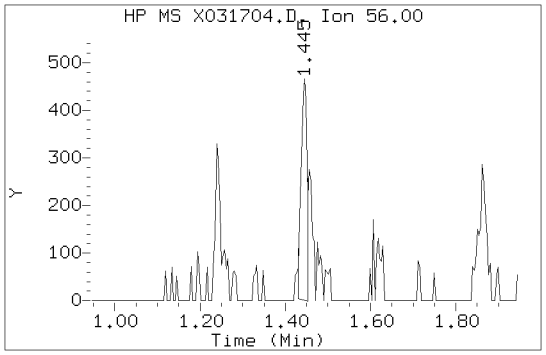
BEFORE

MASS
56
AREA
474
HEIGHT
464
21-Mar-2023
10:17
linh
pham



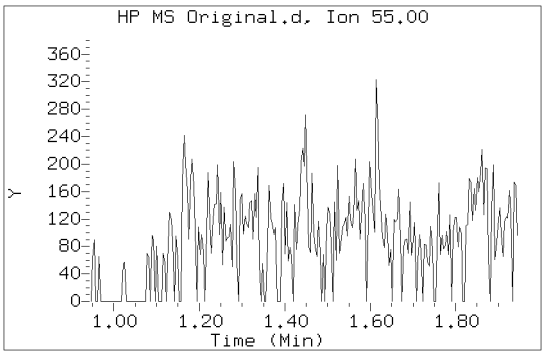
AFTER

MASS
56
AREA
474
HEIGHT
464
21-Mar-2023
10:17
linh
pham



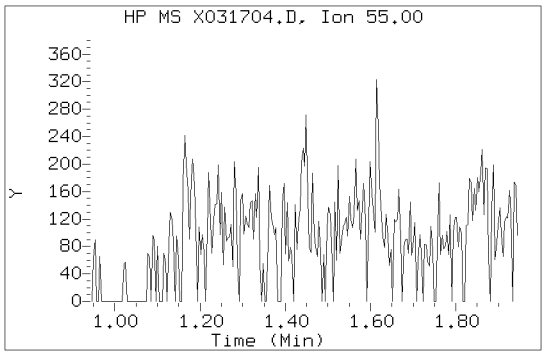
BEFORE

MASS
55
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
55
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



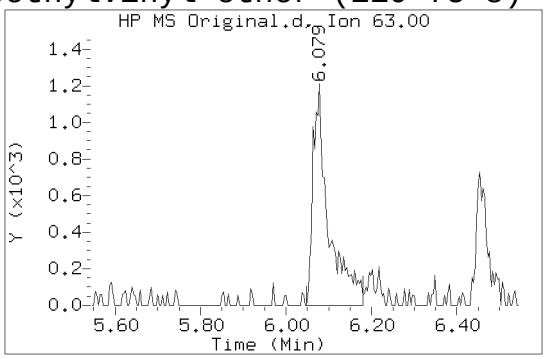
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

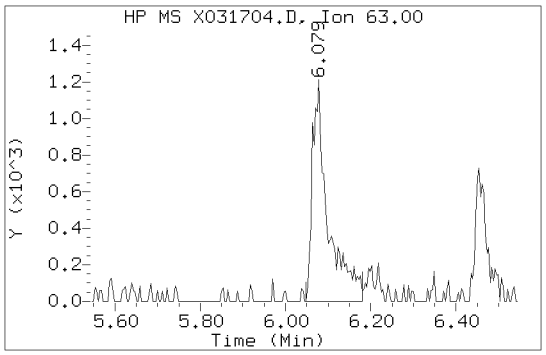
BEFORE

MASS
63
AREA
3065
HEIGHT
1212
21-Mar-2023
10:17
linh
pham



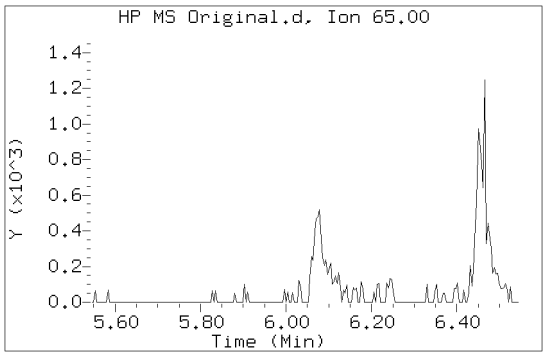
AFTER

MASS
63
AREA
3065
HEIGHT
1212
21-Mar-2023
10:17
linh
pham



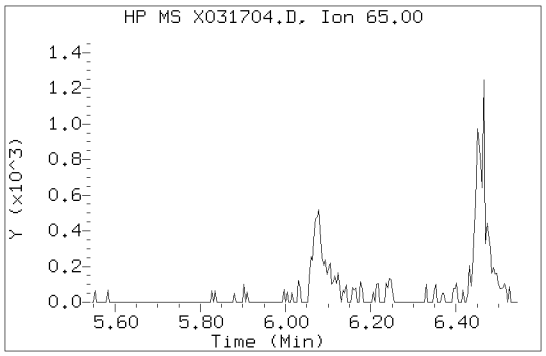
BEFORE

MASS
65
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



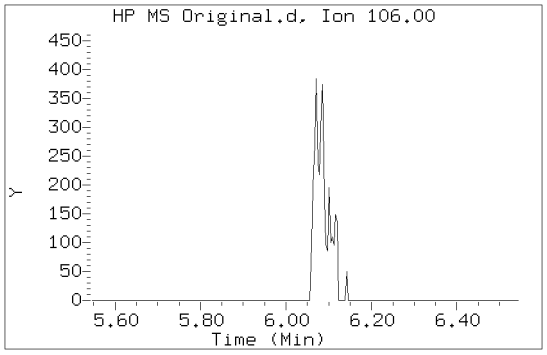
AFTER

MASS
65
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



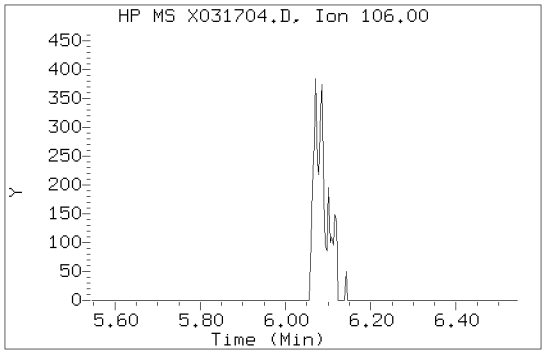
BEFORE

MASS
106
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
106
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

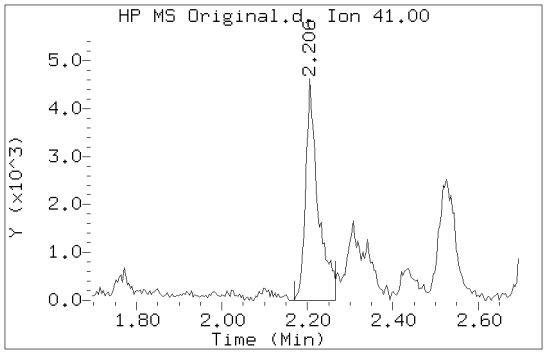


Allyl Chloride (107-05-1)

Reason Code:

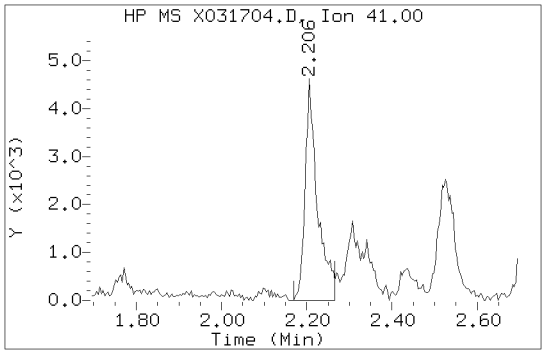
BEFORE

MASS
41
AREA
9372
HEIGHT
4624
21-Mar-2023
10:17
linh
pham



AFTER

MASS
41
AREA
9372
HEIGHT
4624
21-Mar-2023
10:17
linh
pham



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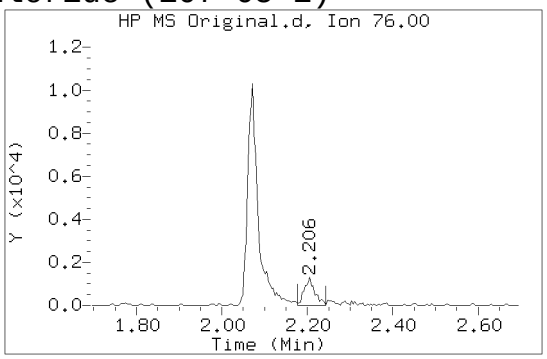
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Allyl Chloride (107-05-1)

Reason Code:

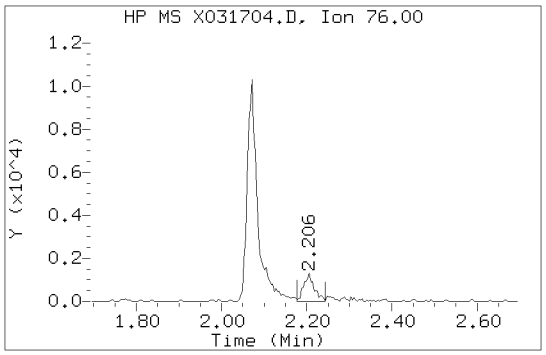
BEFORE

MASS
76
AREA
2238
HEIGHT
1301
21-Mar-2023
10:17
linh
pham



AFTER

MASS
76
AREA
2238
HEIGHT
1301
21-Mar-2023
10:17
linh
pham

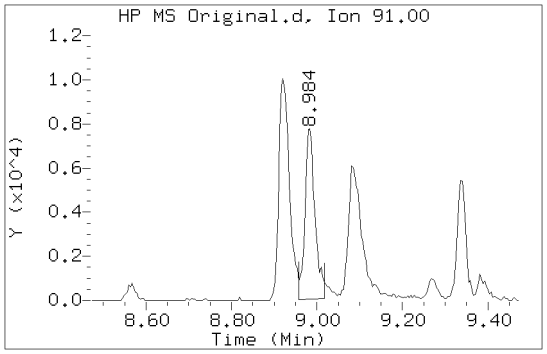


2-Chlorotoluene (95-49-8)

Reason Code:

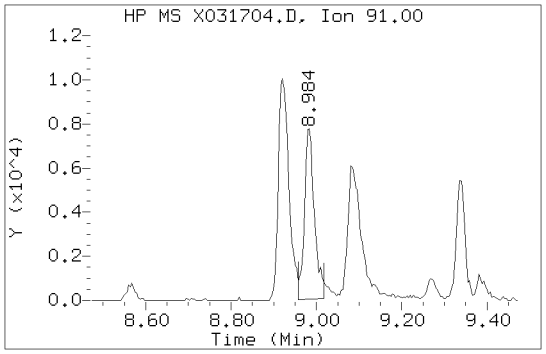
BEFORE

MASS
91
AREA
12773
HEIGHT
7740
21-Mar-2023
10:17
linh
pham



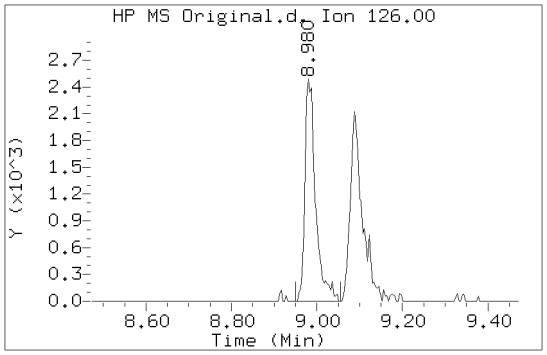
AFTER

MASS
91
AREA
12773
HEIGHT
7740
21-Mar-2023
10:17
linh
pham



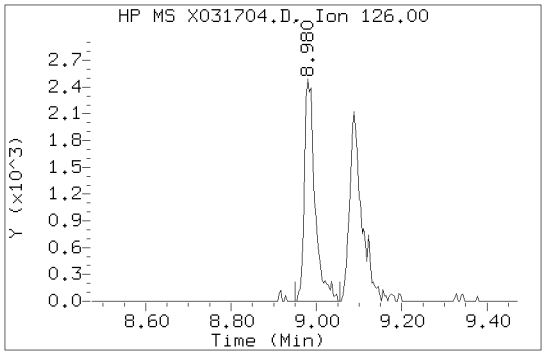
BEFORE

MASS
126
AREA
4377
HEIGHT
2491
21-Mar-2023
10:17
linh
pham



AFTER

MASS
126
AREA
4377
HEIGHT
2491
21-Mar-2023
10:17
linh
pham

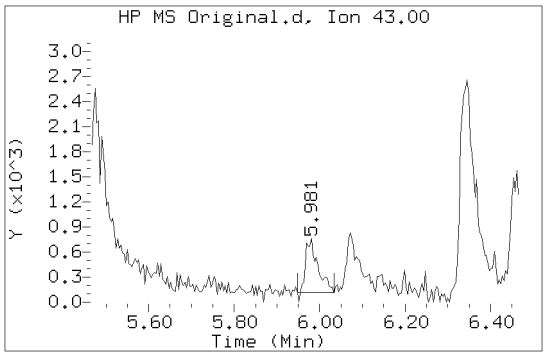


2-Nitropropane (79-46-9)

Reason Code:

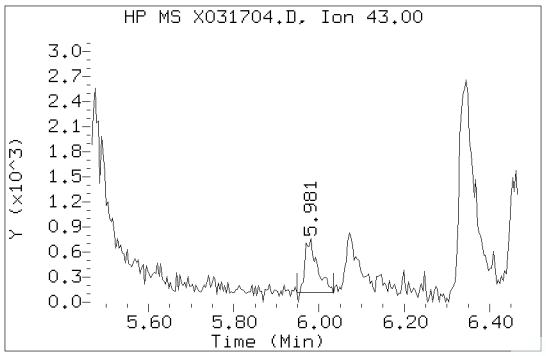
BEFORE

MASS
43
AREA
1281
HEIGHT
651
21-Mar-2023
10:17
linh
pham



AFTER

MASS
43
AREA
1281
HEIGHT
651
21-Mar-2023
10:17
linh
pham



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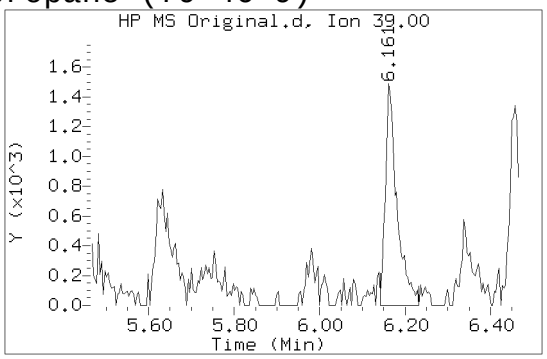
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

2-Nitropropane (79-46-9)

Reason Code:

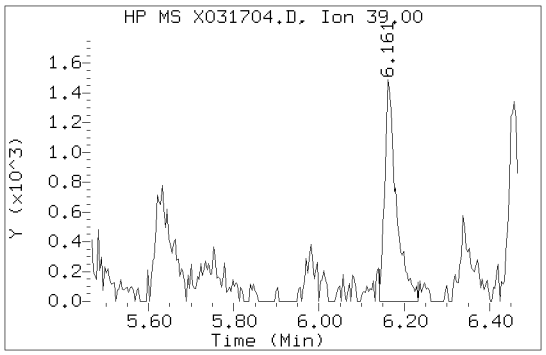
BEFORE

MASS
39
AREA
2792
HEIGHT
1489
21-Mar-2023
10:17
linh
pham



AFTER

MASS
39
AREA
2792
HEIGHT
1489
21-Mar-2023
10:17
linh
pham

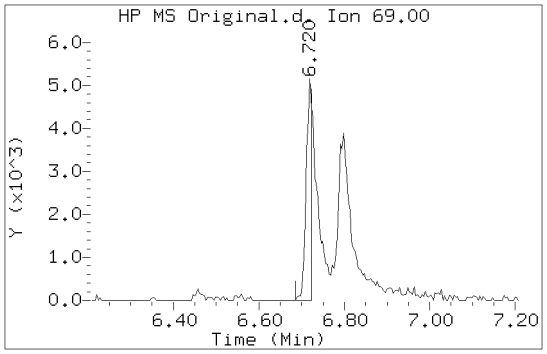


Ethyl Methacrylate (97-63-2)

Reason Code:

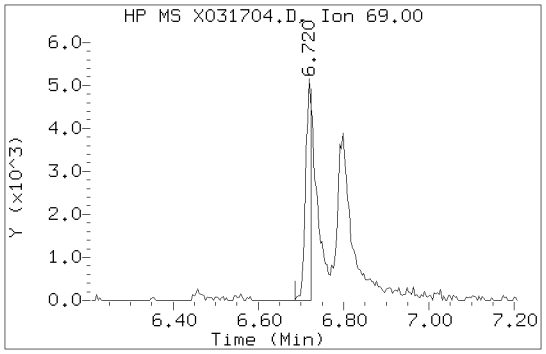
BEFORE

MASS
69
AREA
4689
HEIGHT
5158
21-Mar-2023
10:17
linh
pham



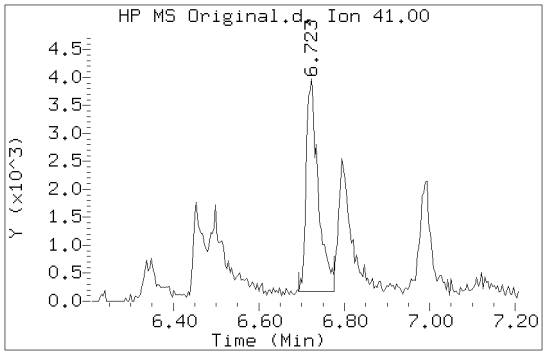
AFTER

MASS
69
AREA
4689
HEIGHT
5158
21-Mar-2023
10:17
linh
pham



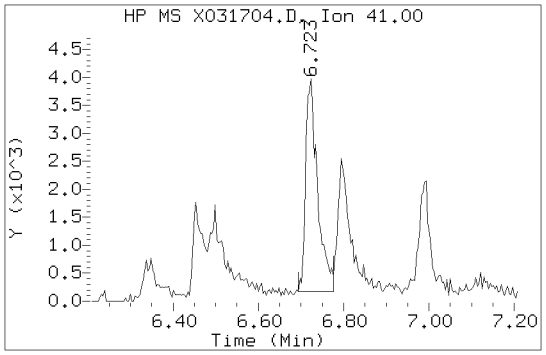
BEFORE

MASS
41
AREA
7465
HEIGHT
3806
21-Mar-2023
10:17
linh
pham



AFTER

MASS
41
AREA
7465
HEIGHT
3806
21-Mar-2023
10:17
linh
pham

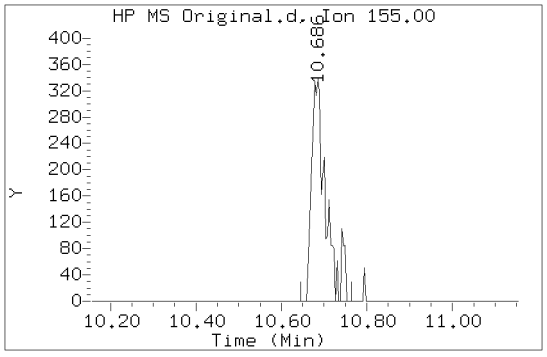


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

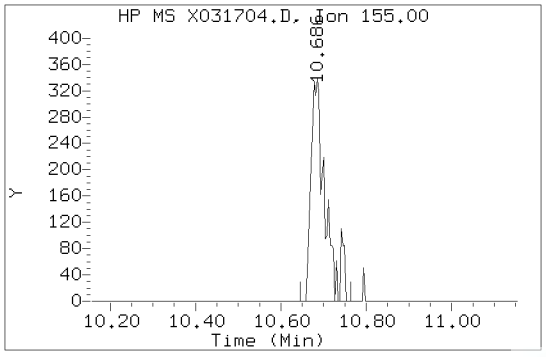
BEFORE

MASS
155
AREA
779
HEIGHT
338
21-Mar-2023
10:17
linh
pham



AFTER

MASS
155
AREA
779
HEIGHT
338
21-Mar-2023
10:17
linh
pham



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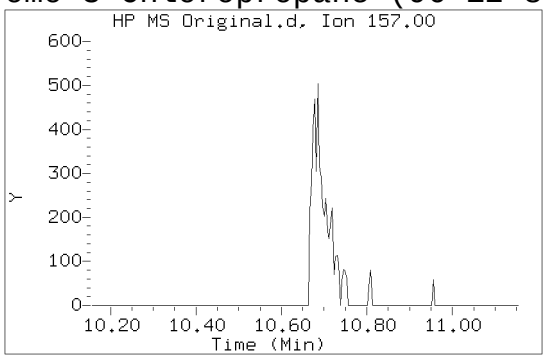
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

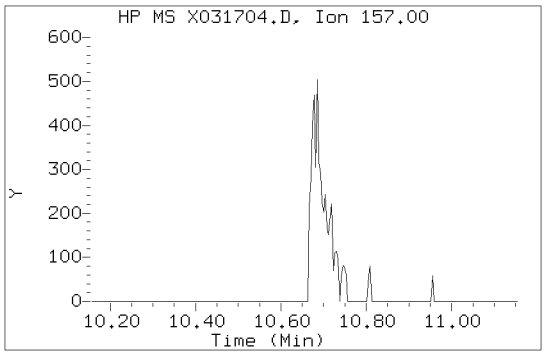
BEFORE

MASS
157
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



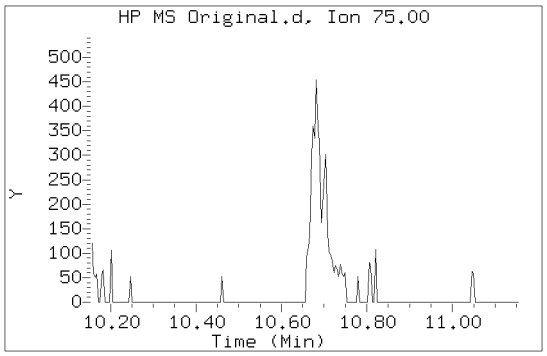
AFTER

MASS
157
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



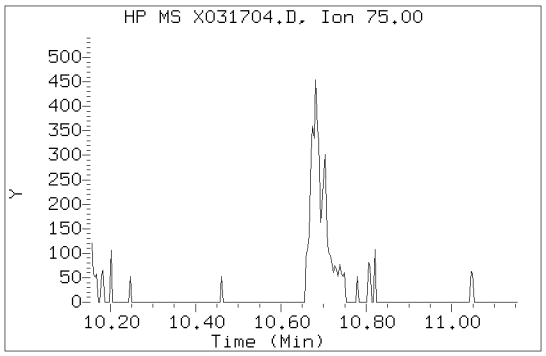
BEFORE

MASS
75
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
75
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

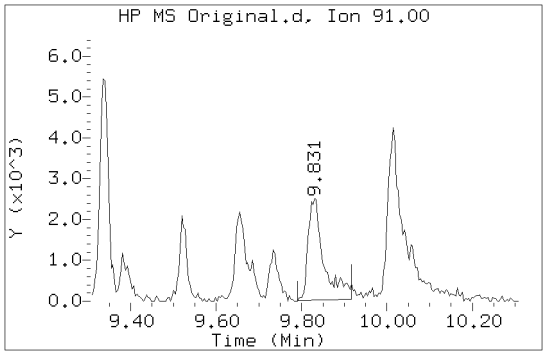


Benzyl Chloride (100-44-7)

Reason Code:

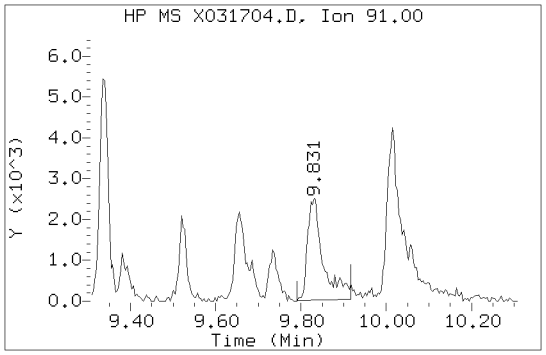
BEFORE

MASS
91
AREA
6470
HEIGHT
2487
21-Mar-2023
10:17
linh
pham



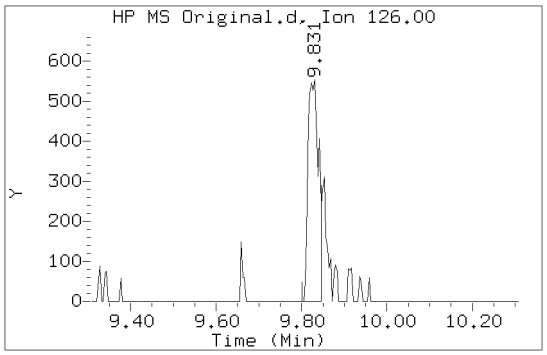
AFTER

MASS
91
AREA
6470
HEIGHT
2487
21-Mar-2023
10:17
linh
pham



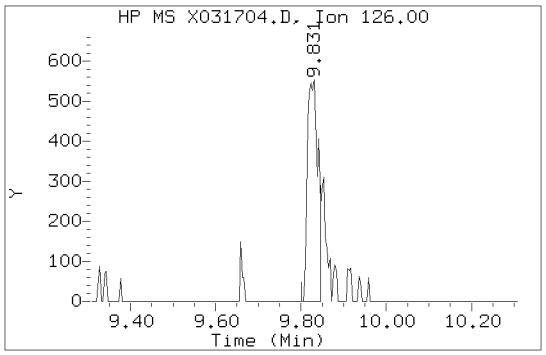
BEFORE

MASS
126
AREA
950
HEIGHT
554
21-Mar-2023
10:17
linh
pham



AFTER

MASS
126
AREA
950
HEIGHT
554
21-Mar-2023
10:17
linh
pham



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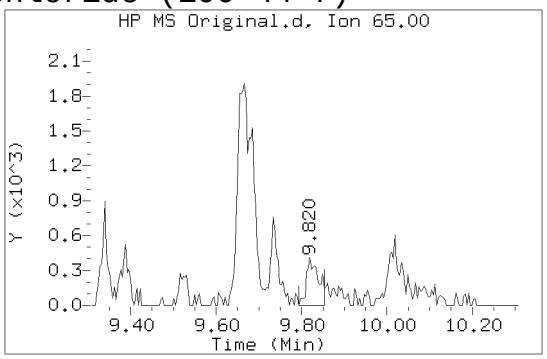
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Benzyl Chloride (100-44-7)

Reason Code:

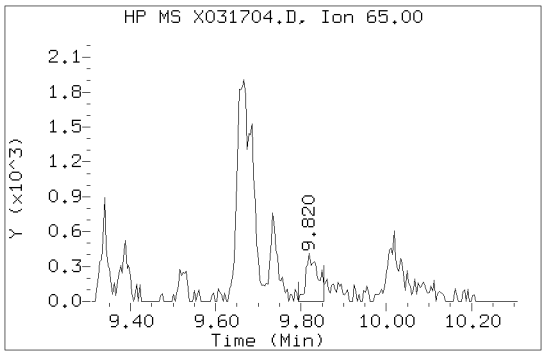
BEFORE

MASS
65
AREA
798
HEIGHT
411
21-Mar-2023
10:17
linh
pham



AFTER

MASS
65
AREA
798
HEIGHT
411
21-Mar-2023
10:17
linh
pham

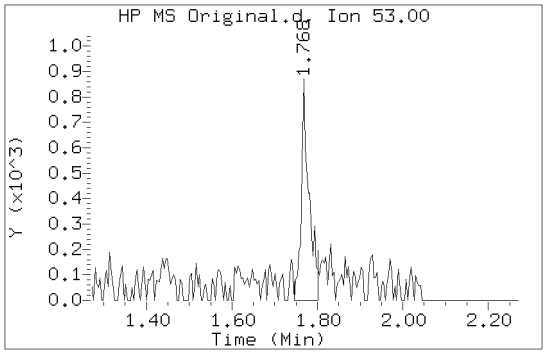


Chloroprene (126-99-8)

Reason Code:

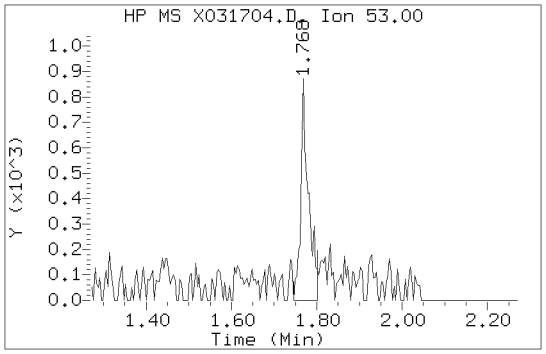
BEFORE

MASS
53
AREA
1110
HEIGHT
872
21-Mar-2023
10:17
linh
pham



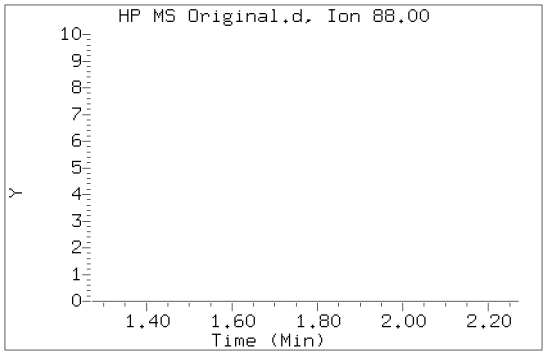
AFTER

MASS
53
AREA
1110
HEIGHT
872
21-Mar-2023
10:17
linh
pham



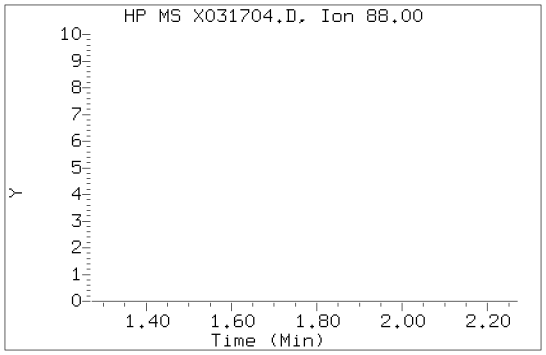
BEFORE

MASS
88
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

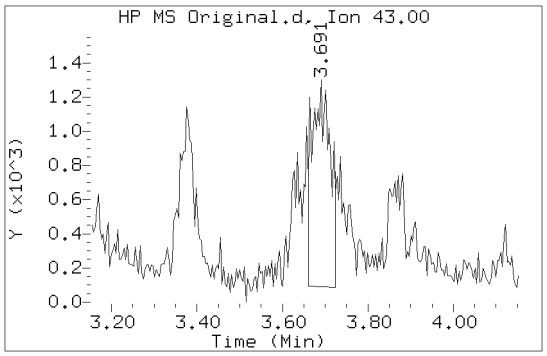


Ethyl Acetate (141-78-6)

Reason Code:

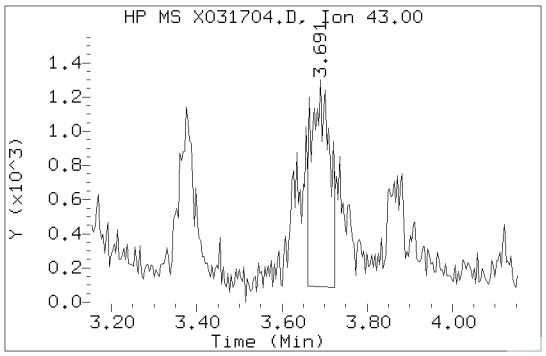
BEFORE

MASS
43
AREA
3592
HEIGHT
1209
21-Mar-2023
10:17
linh
pham



AFTER

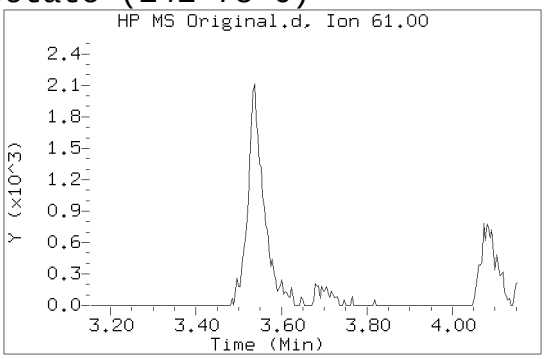
MASS
43
AREA
3592
HEIGHT
1209
21-Mar-2023
10:17
linh
pham



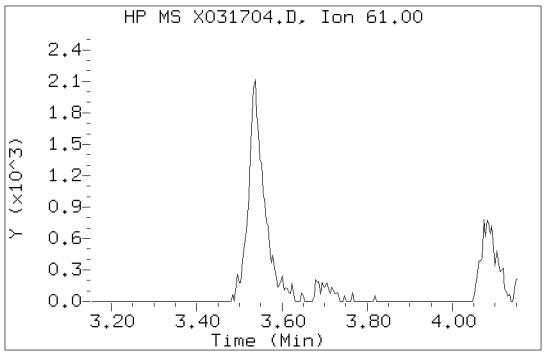
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

BEFORE
MASS
61
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

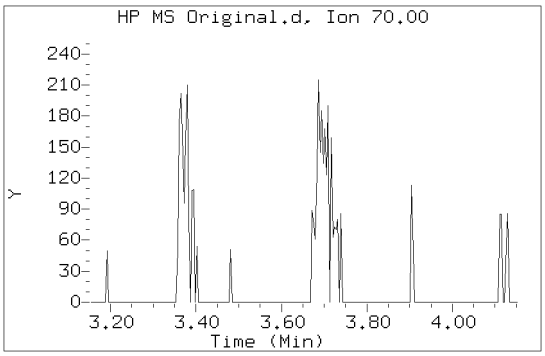


AFTER
MASS
61
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

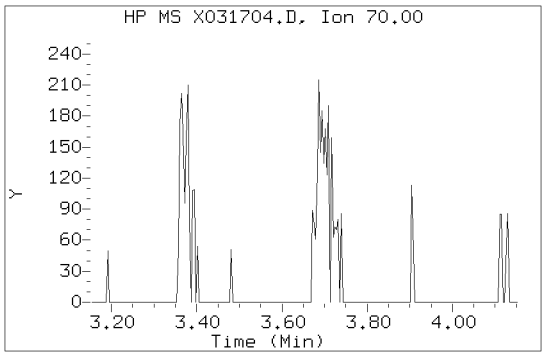


Reason Code:

BEFORE
MASS
70
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

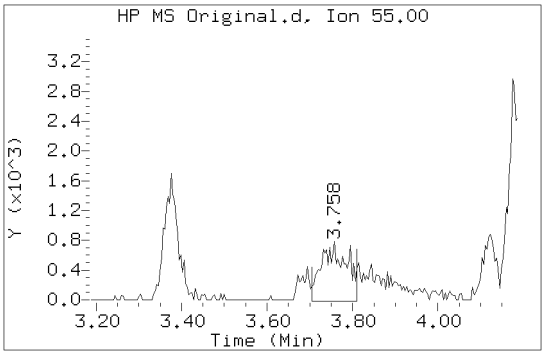


AFTER
MASS
70
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

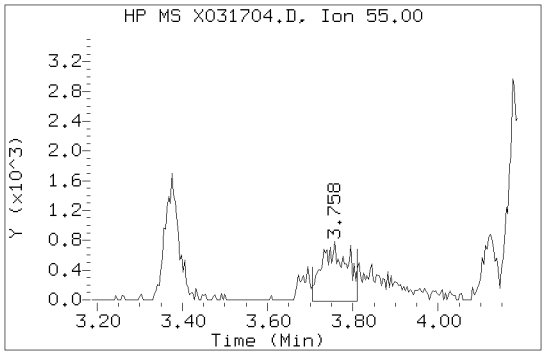


Methyl Acrylate (96-33-3)

BEFORE
MASS
55
AREA
3267
HEIGHT
805
21-Mar-2023
10:17
linh
pham

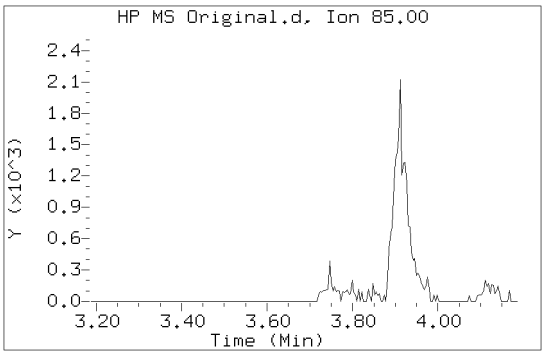


AFTER
MASS
55
AREA
3267
HEIGHT
805
21-Mar-2023
10:17
linh
pham

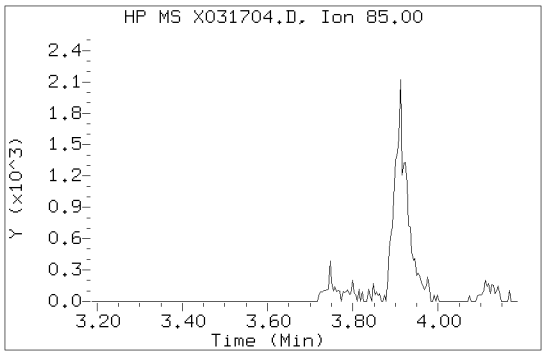


Reason Code:

BEFORE
MASS
85
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER
MASS
85
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



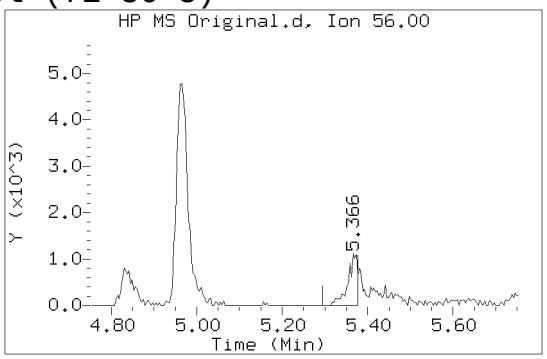
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

n-Butanol (71-36-3)

Reason Code:

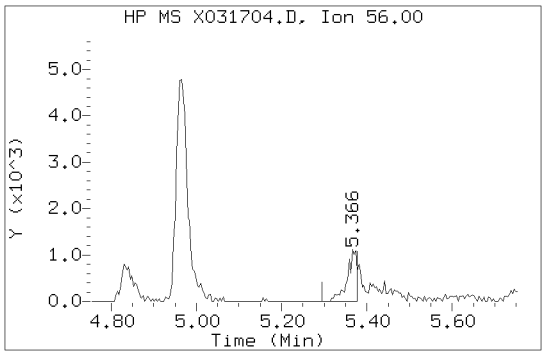
BEFORE

MASS
56
AREA
1715
HEIGHT
1125
21-Mar-2023
10:17
linh
pham



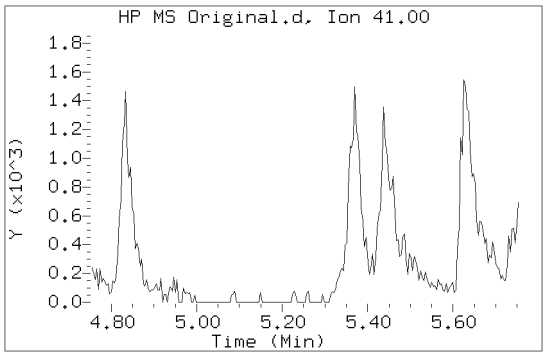
AFTER

MASS
56
AREA
1715
HEIGHT
1125
21-Mar-2023
10:17
linh
pham



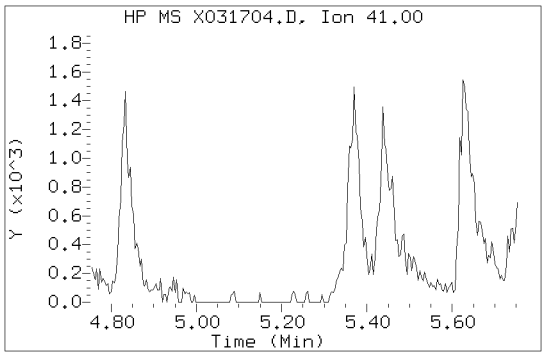
BEFORE

MASS
41
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
41
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

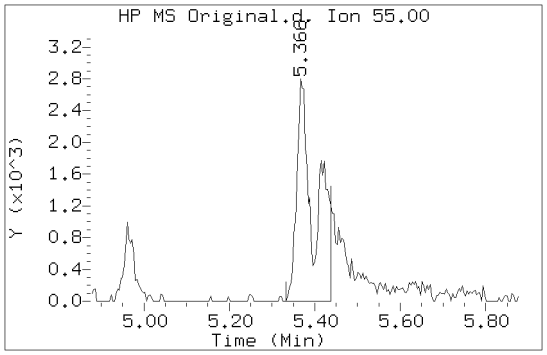


Ethyl Acrylate (140-88-5)

Reason Code:

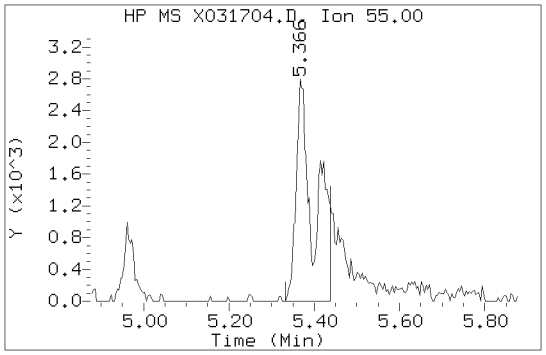
BEFORE

MASS
55
AREA
8164
HEIGHT
2799
21-Mar-2023
10:17
linh
pham



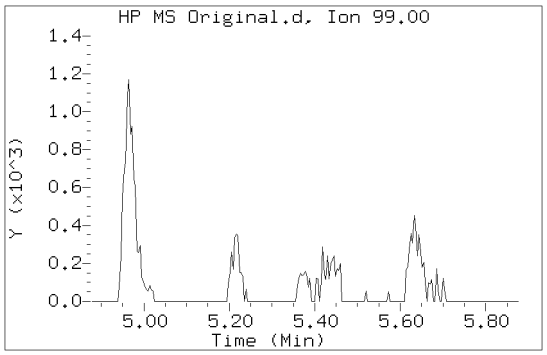
AFTER

MASS
55
AREA
8164
HEIGHT
2799
21-Mar-2023
10:17
linh
pham



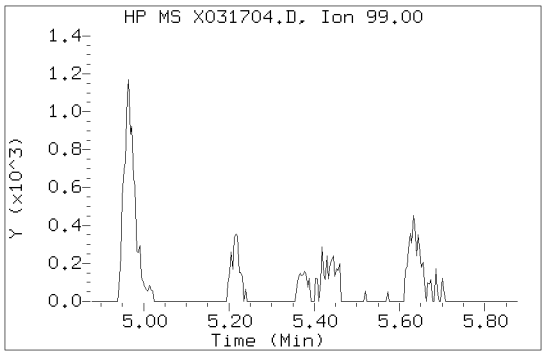
BEFORE

MASS
99
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
99
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



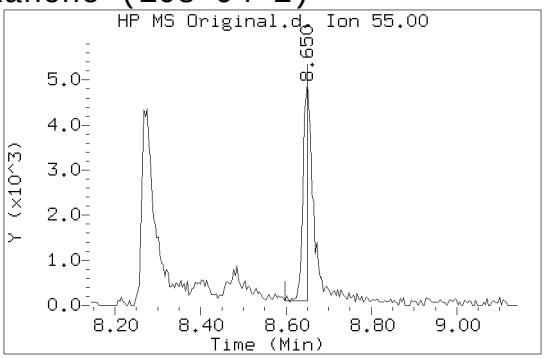
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Cyclohexanone (108-94-1)

Reason Code:

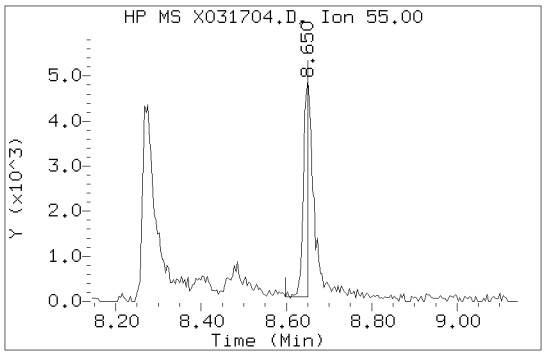
BEFORE

MASS
55
AREA
3987
HEIGHT
4818
21-Mar-2023
10:17
linh
pham



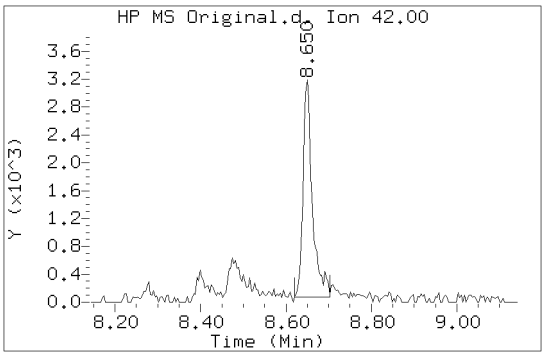
AFTER

MASS
55
AREA
3987
HEIGHT
4818
21-Mar-2023
10:17
linh
pham



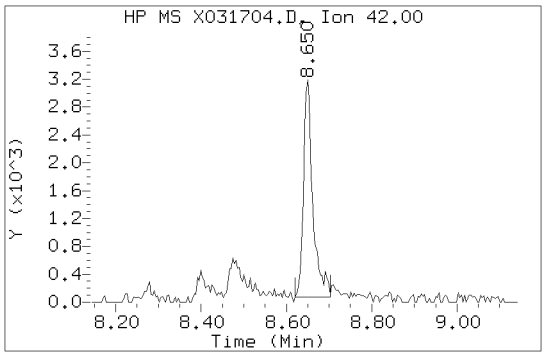
BEFORE

MASS
42
AREA
4854
HEIGHT
3120
21-Mar-2023
10:17
linh
pham



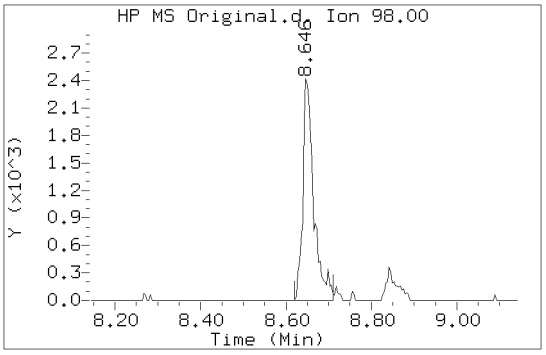
AFTER

MASS
42
AREA
4854
HEIGHT
3120
21-Mar-2023
10:17
linh
pham



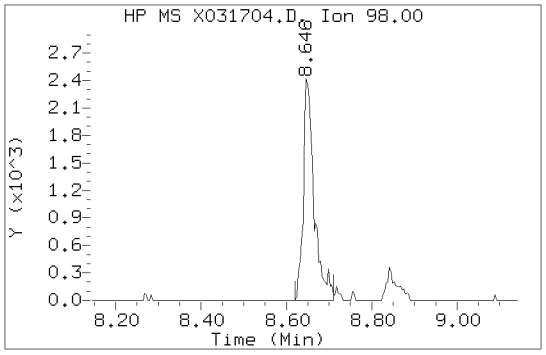
BEFORE

MASS
98
AREA
4345
HEIGHT
2420
21-Mar-2023
10:17
linh
pham



AFTER

MASS
98
AREA
4345
HEIGHT
2420
21-Mar-2023
10:17
linh
pham

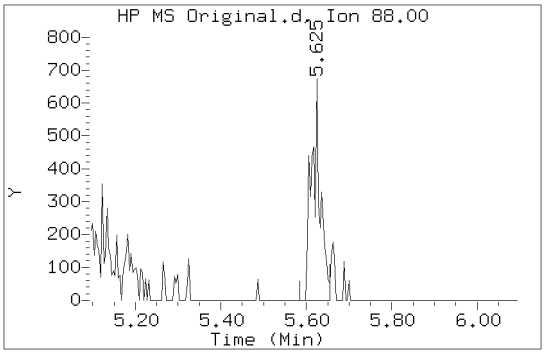


1,4-Dioxane ()

Reason Code:

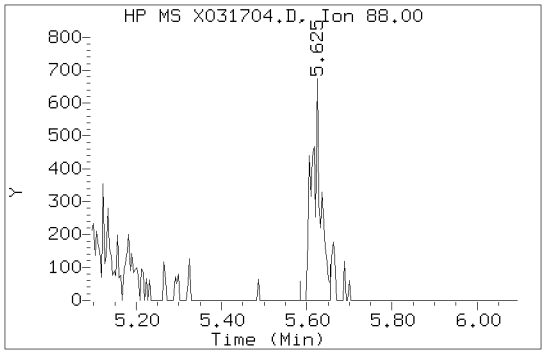
BEFORE

MASS
88
AREA
953
HEIGHT
674
21-Mar-2023
10:17
linh
pham



AFTER

MASS
88
AREA
953
HEIGHT
674
21-Mar-2023
10:17
linh
pham



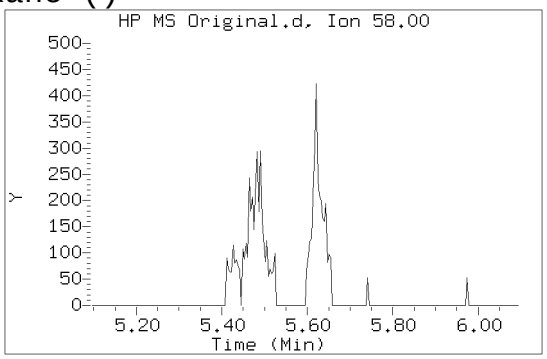
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,4-Dioxane ()

Reason Code:

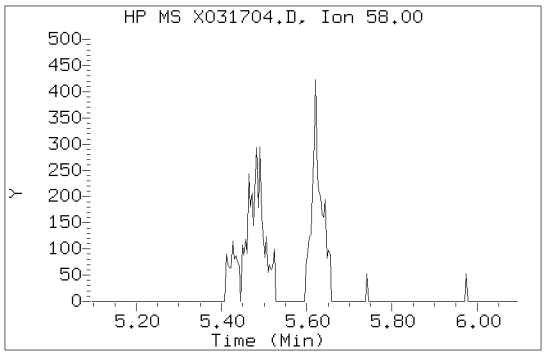
BEFORE

MASS
58
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
58
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

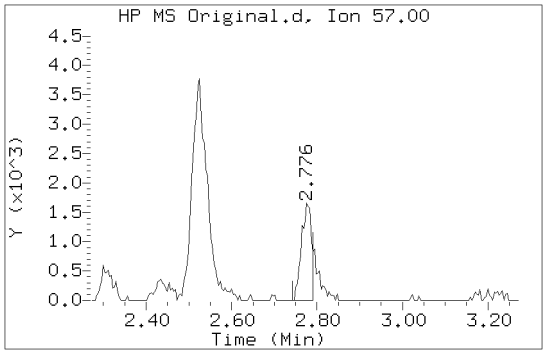


n-Hexane (110-54-3)

Reason Code:

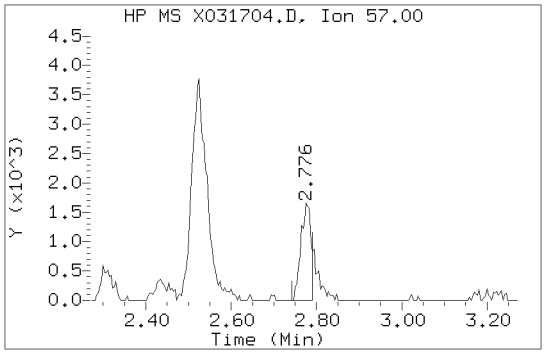
BEFORE

MASS
57
AREA
2771
HEIGHT
1662
21-Mar-2023
10:17
linh
pham



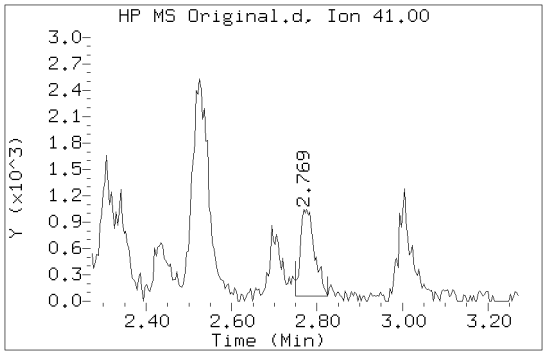
AFTER

MASS
57
AREA
2771
HEIGHT
1662
21-Mar-2023
10:17
linh
pham



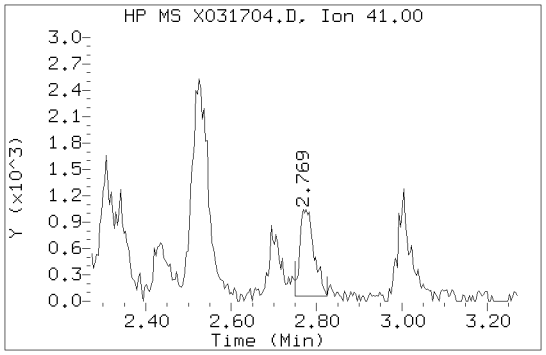
BEFORE

MASS
41
AREA
2298
HEIGHT
985
21-Mar-2023
10:17
linh
pham



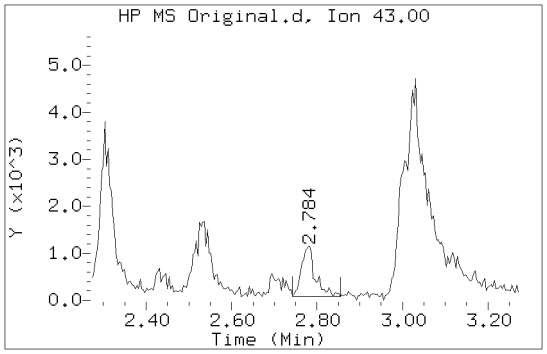
AFTER

MASS
41
AREA
2298
HEIGHT
985
21-Mar-2023
10:17
linh
pham



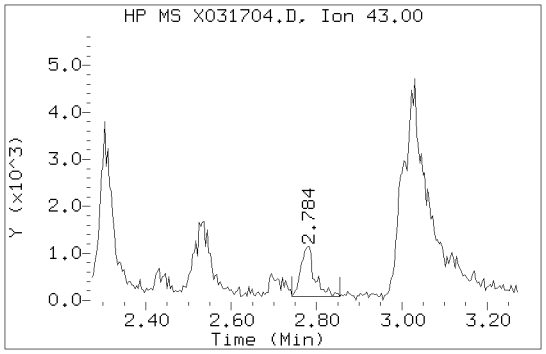
BEFORE

MASS
43
AREA
2392
HEIGHT
1064
21-Mar-2023
10:17
linh
pham



AFTER

MASS
43
AREA
2392
HEIGHT
1064
21-Mar-2023
10:17
linh
pham

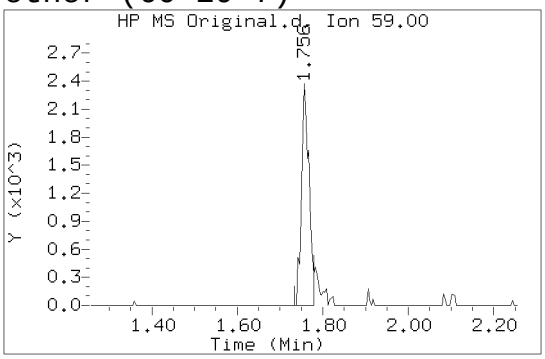


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

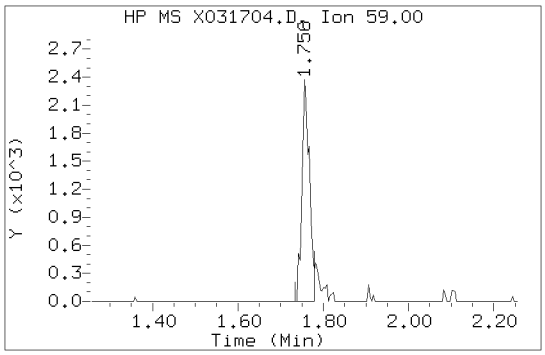
Diethyl ether (60-29-7)

Reason Code:

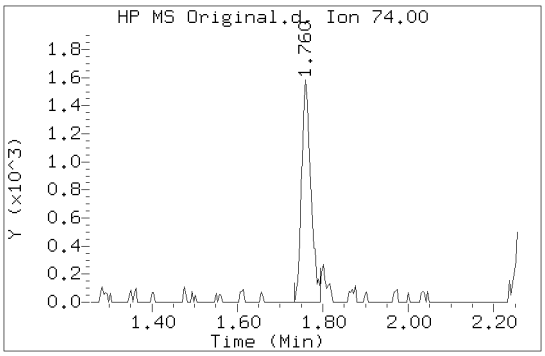
BEFORE
MASS
59
AREA
2934
HEIGHT
2372
21-Mar-2023
10:17
linh
pham



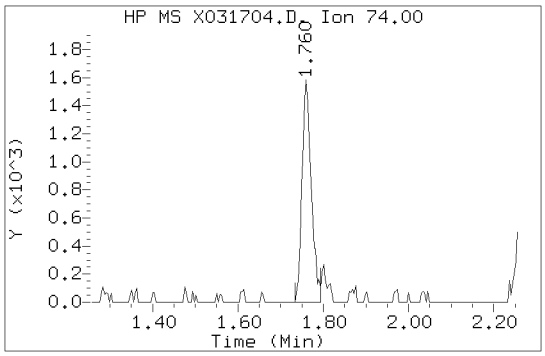
AFTER
MASS
59
AREA
2934
HEIGHT
2372
21-Mar-2023
10:17
linh
pham



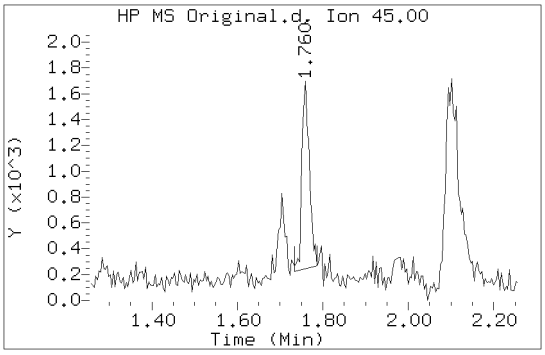
BEFORE
MASS
74
AREA
2425
HEIGHT
1584
21-Mar-2023
10:17
linh
pham



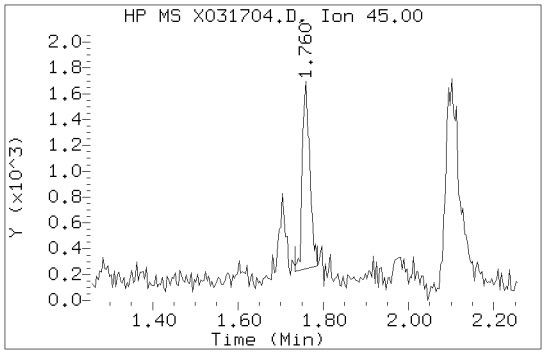
AFTER
MASS
74
AREA
2425
HEIGHT
1584
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
45
AREA
1781
HEIGHT
1452
21-Mar-2023
10:17
linh
pham



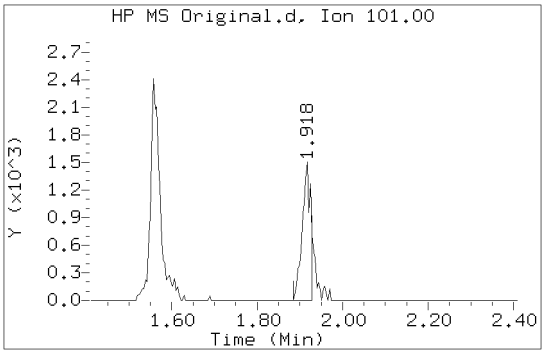
AFTER
MASS
45
AREA
1781
HEIGHT
1452
21-Mar-2023
10:17
linh
pham



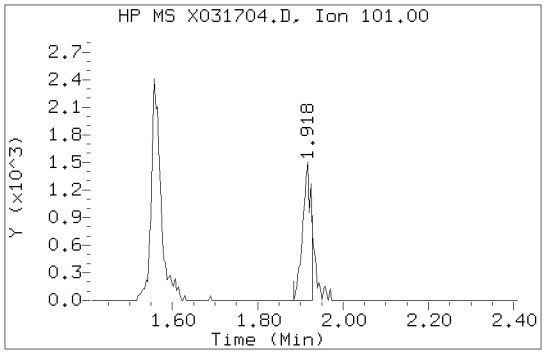
Freon TF (76-13-1)

Reason Code:

BEFORE
MASS
101
AREA
2078
HEIGHT
1502
21-Mar-2023
10:17
linh
pham



AFTER
MASS
101
AREA
2078
HEIGHT
1502
21-Mar-2023
10:17
linh
pham

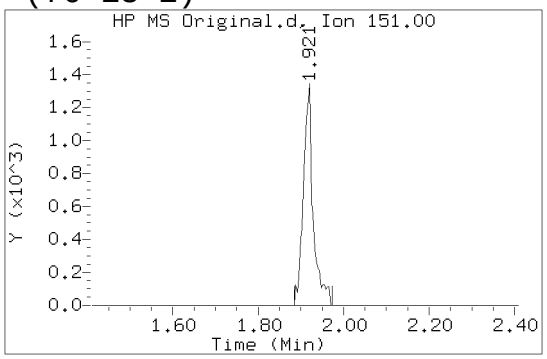


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Freon TF (76-13-1)

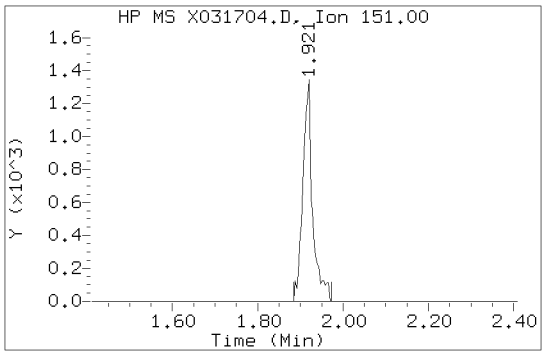
BEFORE

MASS
151
AREA
2175
HEIGHT
1345
21-Mar-2023
10:17
linh
pham



AFTER

MASS
151
AREA
2175
HEIGHT
1345
21-Mar-2023
10:17
linh
pham

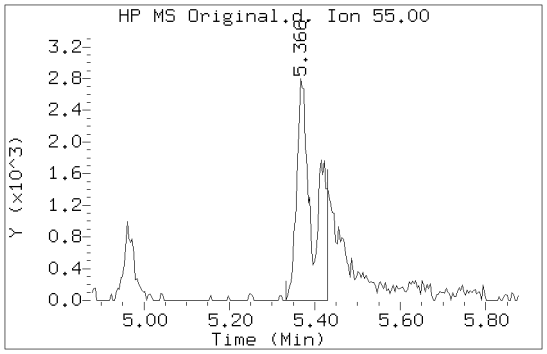


Reason Code:

Methylcyclohexane (108-87-2)

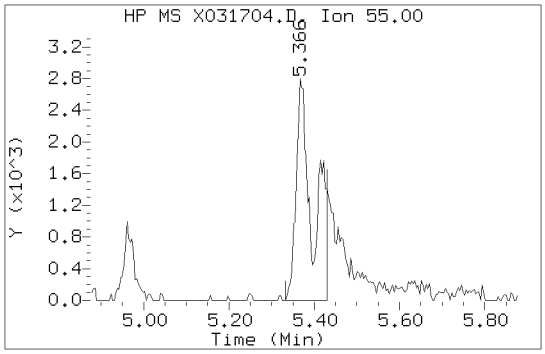
BEFORE

MASS
55
AREA
7595
HEIGHT
2799
21-Mar-2023
10:17
linh
pham



AFTER

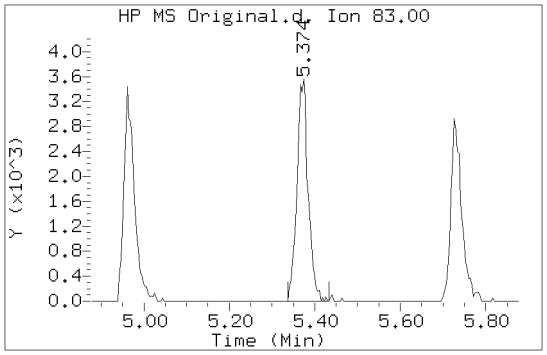
MASS
55
AREA
7595
HEIGHT
2799
21-Mar-2023
10:17
linh
pham



Reason Code:

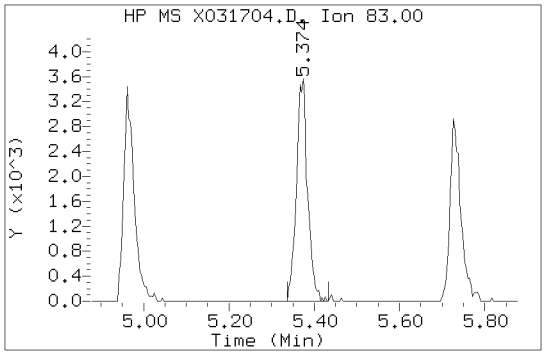
BEFORE

MASS
83
AREA
6611
HEIGHT
3563
21-Mar-2023
10:17
linh
pham



AFTER

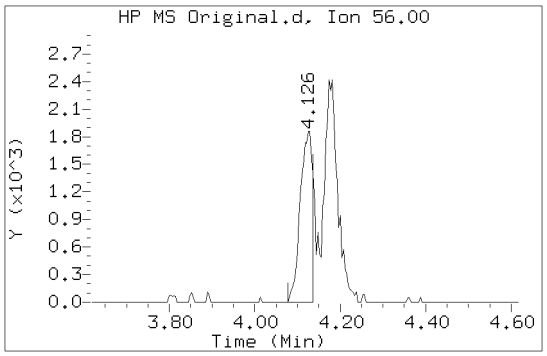
MASS
83
AREA
6611
HEIGHT
3563
21-Mar-2023
10:17
linh
pham



Cyclohexane (110-82-7)

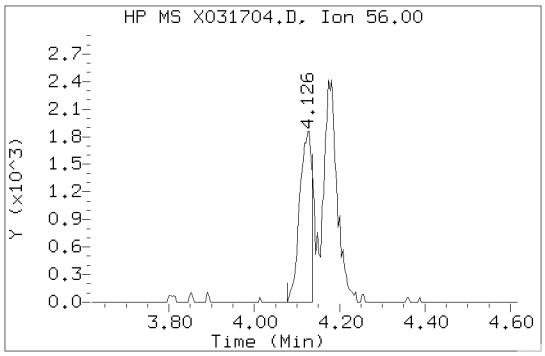
BEFORE

MASS
56
AREA
3748
HEIGHT
1862
21-Mar-2023
10:17
linh
pham



AFTER

MASS
56
AREA
3748
HEIGHT
1862
21-Mar-2023
10:17
linh
pham



Reason Code:

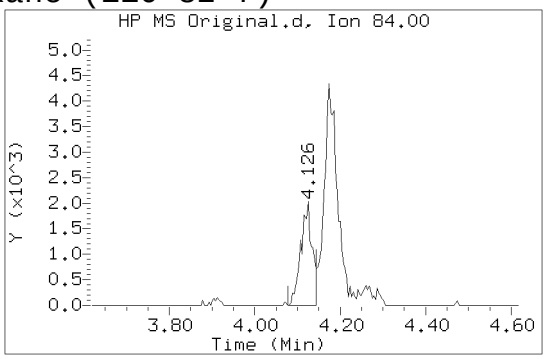
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Cyclohexane (110-82-7)

Reason Code:

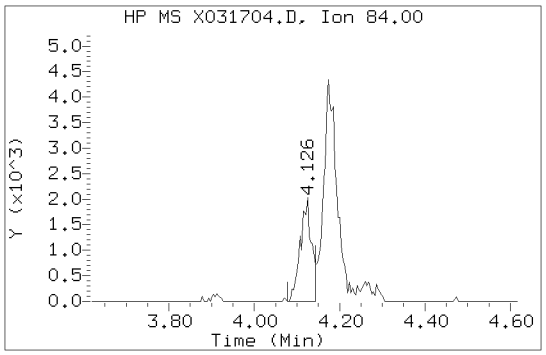
BEFORE

MASS
84
AREA
3798
HEIGHT
2028
21-Mar-2023
10:17
linh
pham



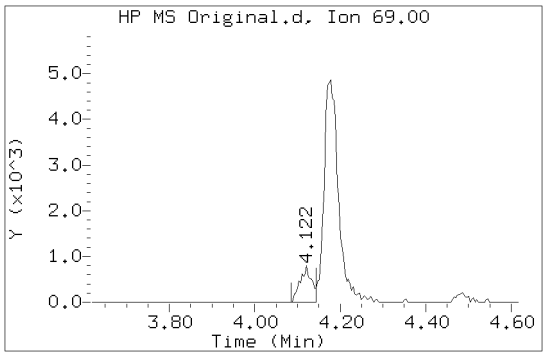
AFTER

MASS
84
AREA
3798
HEIGHT
2028
21-Mar-2023
10:17
linh
pham



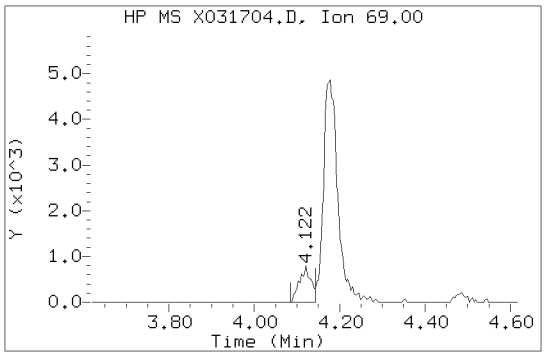
BEFORE

MASS
69
AREA
1536
HEIGHT
806
21-Mar-2023
10:17
linh
pham



AFTER

MASS
69
AREA
1536
HEIGHT
806
21-Mar-2023
10:17
linh
pham

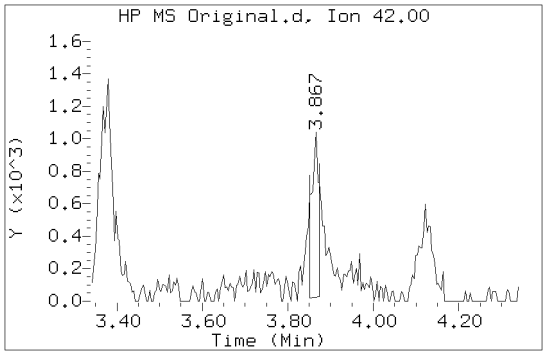


Tetrahydrofuran (109-99-9)

Reason Code:

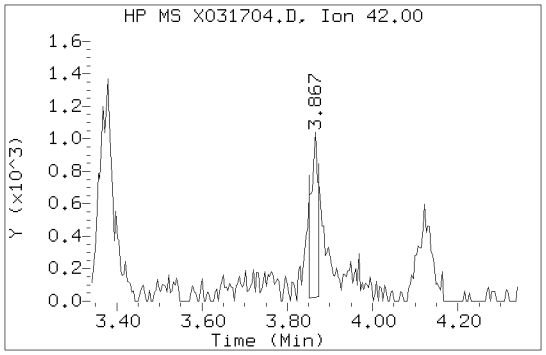
BEFORE

MASS
42
AREA
1179
HEIGHT
1015
21-Mar-2023
10:17
linh
pham



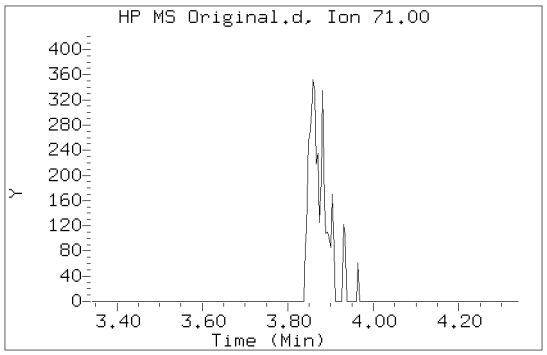
AFTER

MASS
42
AREA
1179
HEIGHT
1015
21-Mar-2023
10:17
linh
pham



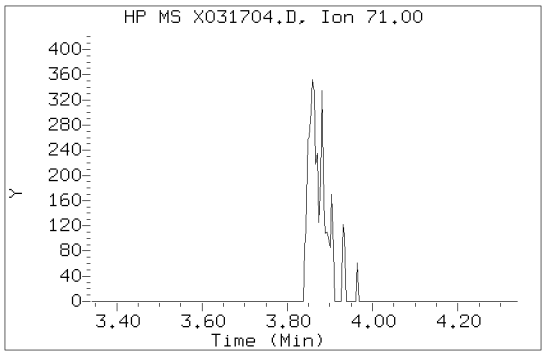
BEFORE

MASS
71
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
71
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



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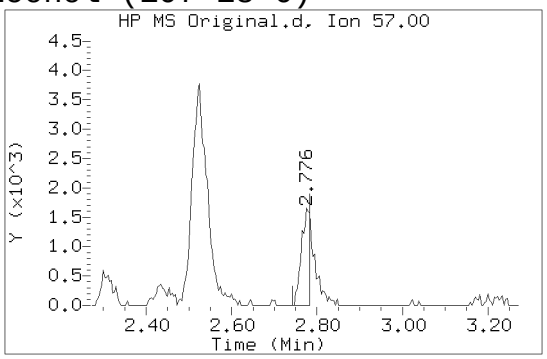
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Allyl alcohol (107-18-6)

Reason Code:

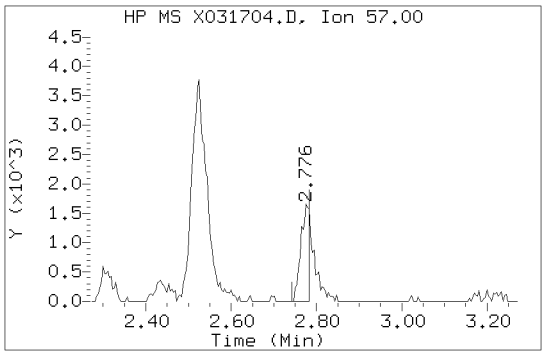
BEFORE

MASS
57
AREA
2361
HEIGHT
1662
21-Mar-2023
10:17
linh
pham



AFTER

MASS
57
AREA
2361
HEIGHT
1662
21-Mar-2023
10:17
linh
pham

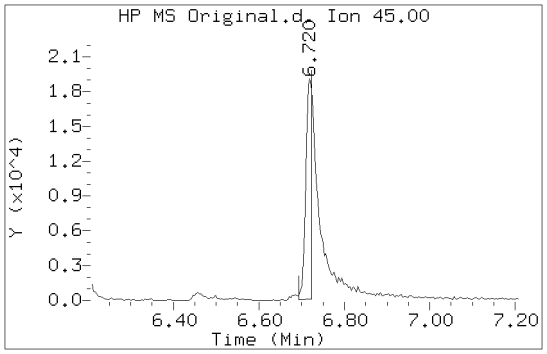


4-Methyl-2-pentanol (108-11-2)

Reason Code:

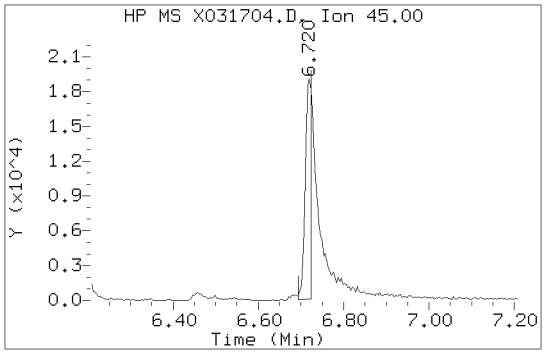
BEFORE

MASS
45
AREA
18895
HEIGHT
19018
21-Mar-2023
10:17
linh
pham



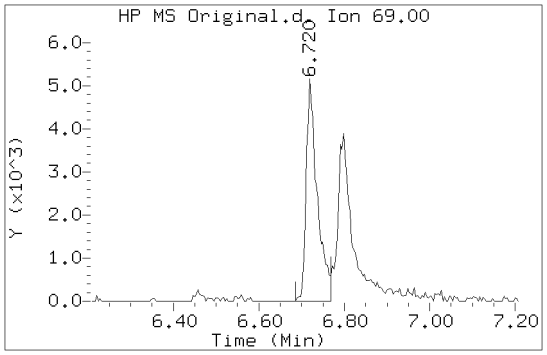
AFTER

MASS
45
AREA
18895
HEIGHT
19018
21-Mar-2023
10:17
linh
pham



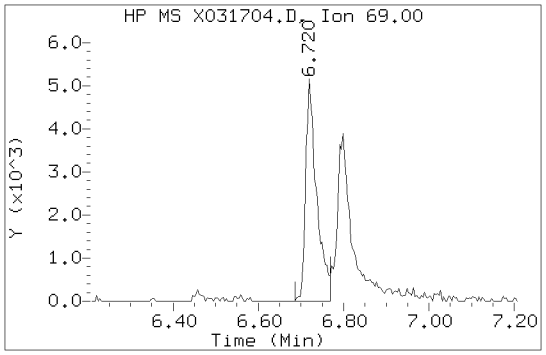
BEFORE

MASS
69
AREA
9311
HEIGHT
5158
21-Mar-2023
10:17
linh
pham



AFTER

MASS
69
AREA
9311
HEIGHT
5158
21-Mar-2023
10:17
linh
pham

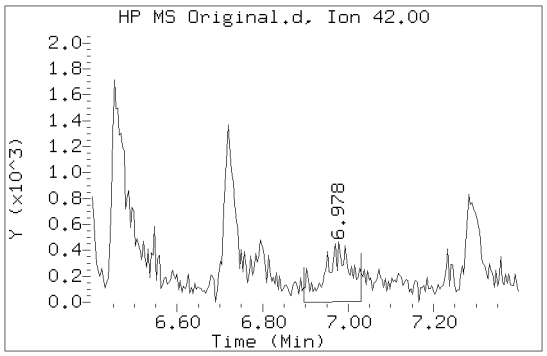


Amyl alcohol (71-41-0)

Reason Code:

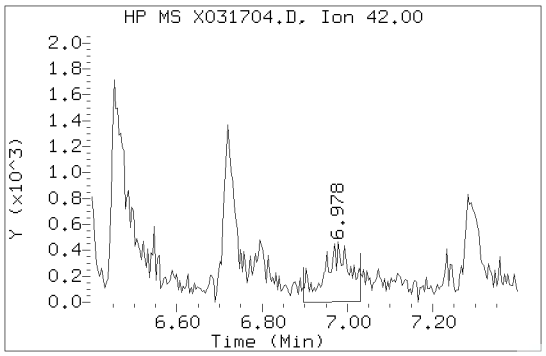
BEFORE

MASS
42
AREA
1880
HEIGHT
462
21-Mar-2023
10:17
linh
pham



AFTER

MASS
42
AREA
1880
HEIGHT
462
21-Mar-2023
10:17
linh
pham

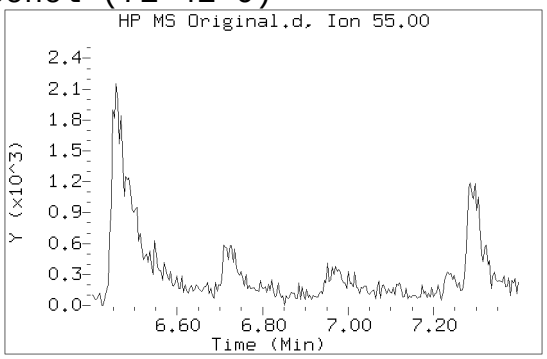


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

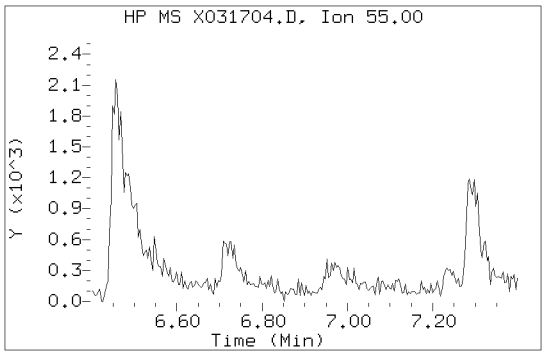
Amyl alcohol (71-41-0)

Reason Code:

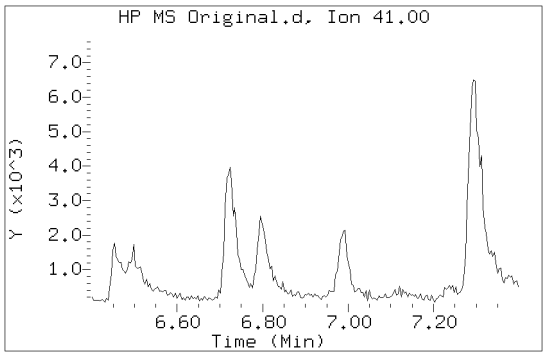
BEFORE
MASS
55
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



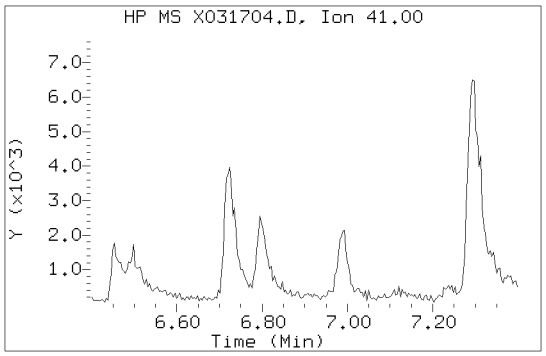
AFTER
MASS
55
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
41
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



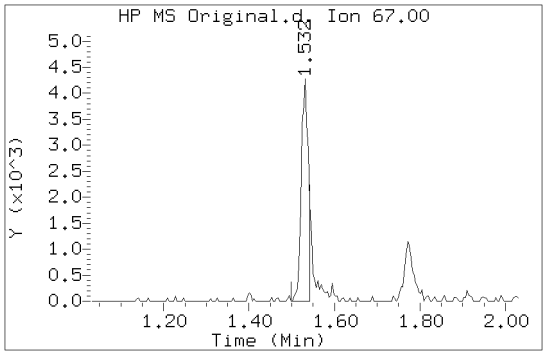
AFTER
MASS
41
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



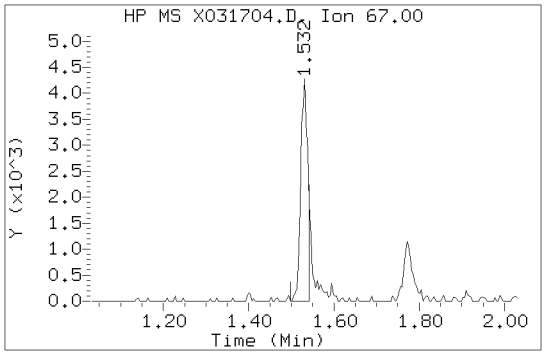
Dichlorofluoromethane (75-43-4)

Reason Code:

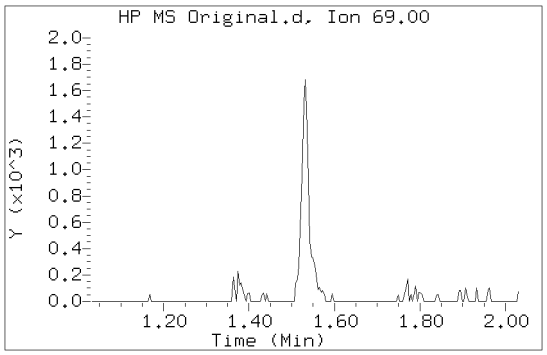
BEFORE
MASS
67
AREA
5093
HEIGHT
4276
21-Mar-2023
10:17
linh
pham



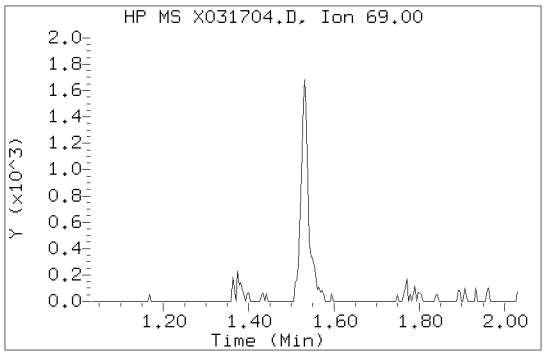
AFTER
MASS
67
AREA
5093
HEIGHT
4276
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
69
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER
MASS
69
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



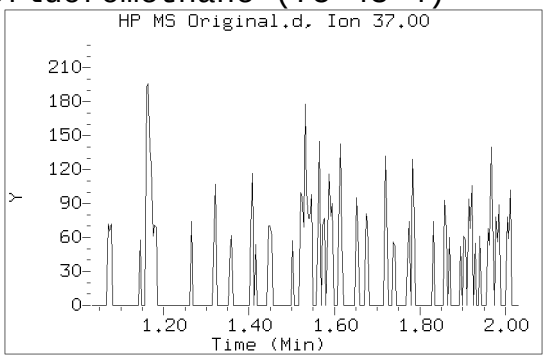
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Dichlorofluoromethane (75-43-4)

Reason Code:

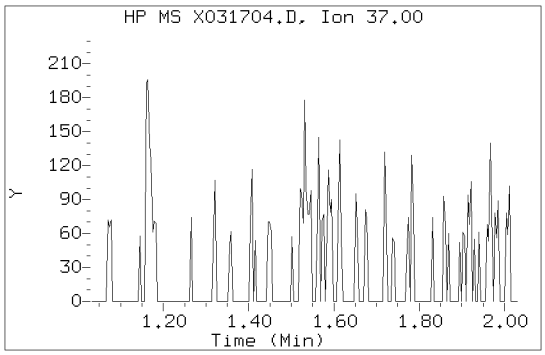
BEFORE

MASS
37
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
37
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

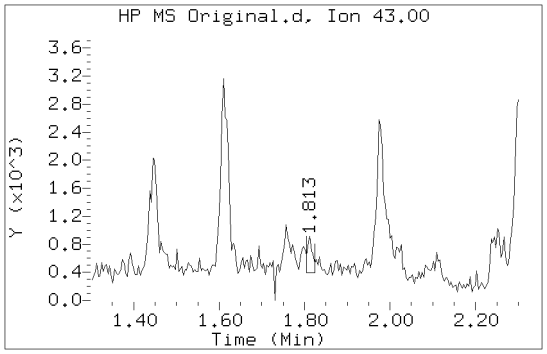


Propylene oxide ()

Reason Code:

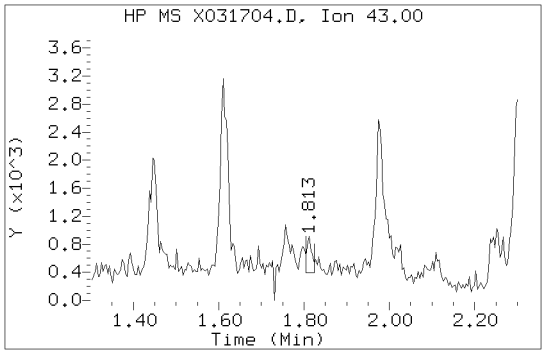
BEFORE

MASS
43
AREA
432
HEIGHT
520
21-Mar-2023
10:17
linh
pham



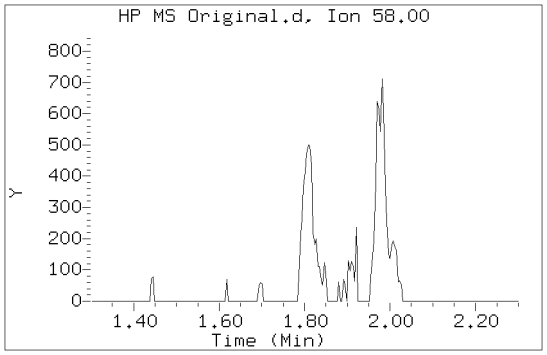
AFTER

MASS
43
AREA
432
HEIGHT
520
21-Mar-2023
10:17
linh
pham



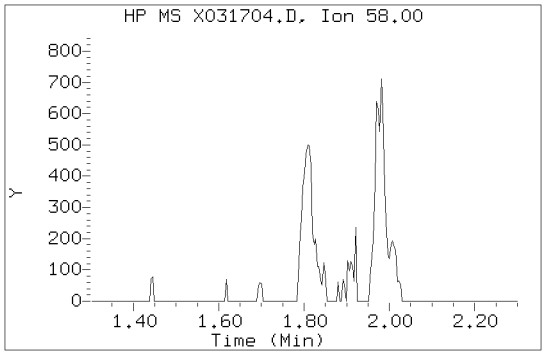
BEFORE

MASS
58
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
58
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

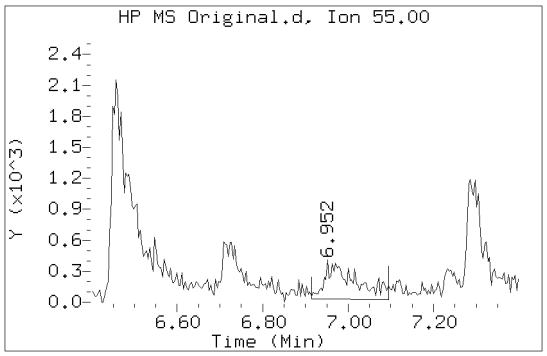


3-Methyl-1-butanol (123-51-3)

Reason Code:

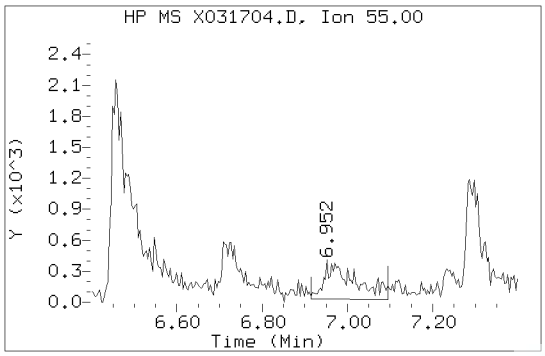
BEFORE

MASS
55
AREA
1791
HEIGHT
379
21-Mar-2023
10:17
linh
pham



AFTER

MASS
55
AREA
1791
HEIGHT
379
21-Mar-2023
10:17
linh
pham



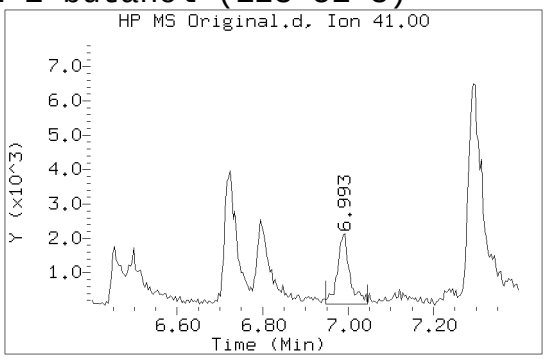
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

3-Methyl-1-butanol (123-51-3)

Reason Code:

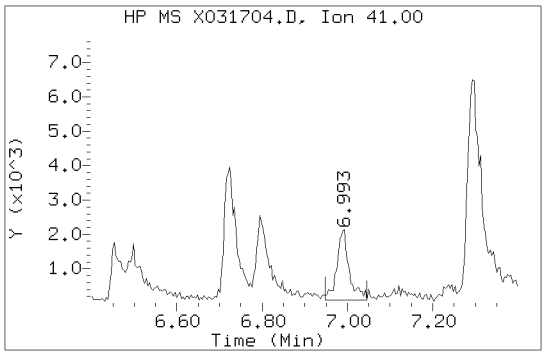
BEFORE

MASS
41
AREA
4088
HEIGHT
2043
21-Mar-2023
10:17
linh
pham



AFTER

MASS
41
AREA
4088
HEIGHT
2043
21-Mar-2023
10:17
linh
pham

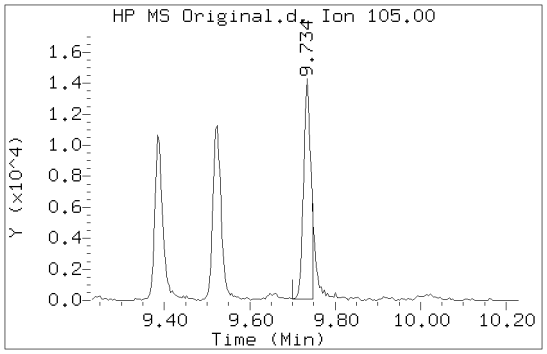


1,2,3-Trimethylbenzene (526-73-8)

Reason Code:

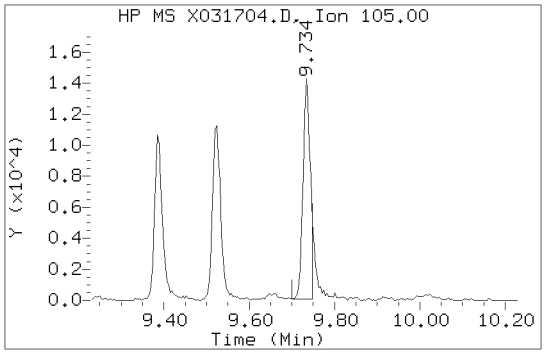
BEFORE

MASS
105
AREA
17375
HEIGHT
14211
21-Mar-2023
10:17
linh
pham



AFTER

MASS
105
AREA
17375
HEIGHT
14211
21-Mar-2023
10:17
linh
pham

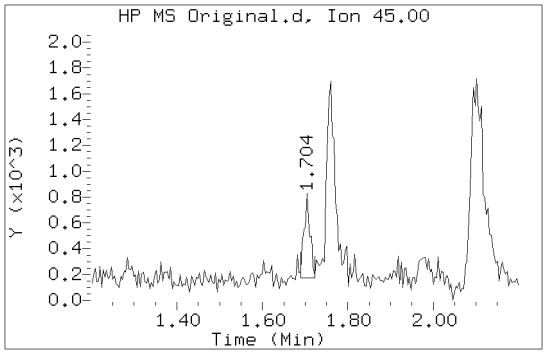


Ethanol (64-17-5)

Reason Code:

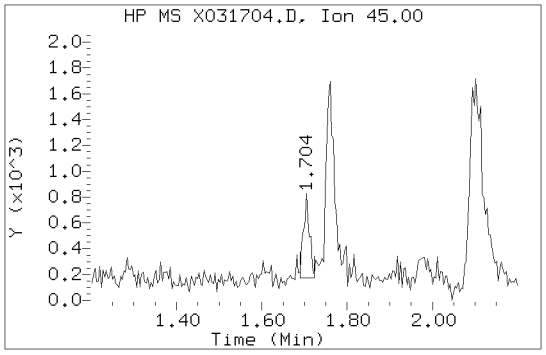
BEFORE

MASS
45
AREA
656
HEIGHT
654
21-Mar-2023
10:17
linh
pham



AFTER

MASS
45
AREA
656
HEIGHT
654
21-Mar-2023
10:17
linh
pham

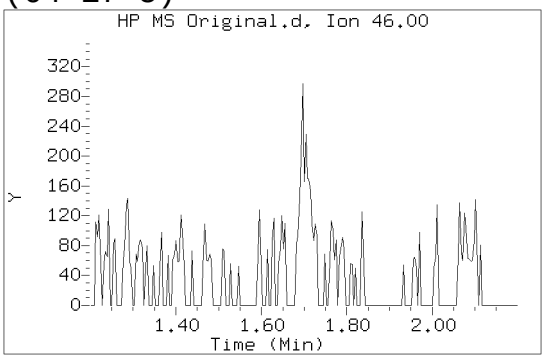


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Ethanol (64-17-5)

Reason Code:

BEFORE
MASS
46
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER
MASS
46
AREA
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HEIGHT
0
21-Mar-2023
10:17
linh
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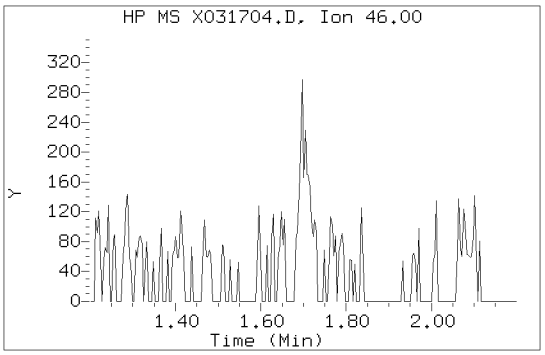

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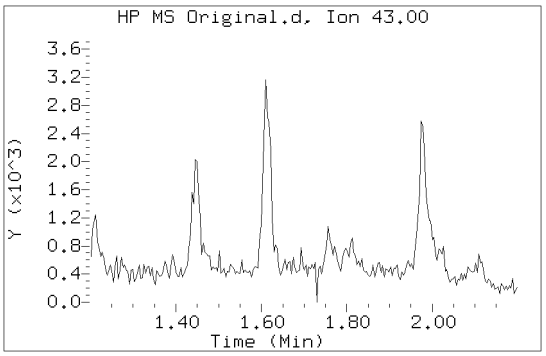

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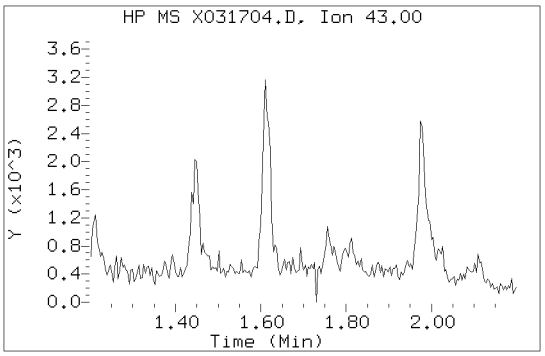

tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
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5691
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21-Mar-2023
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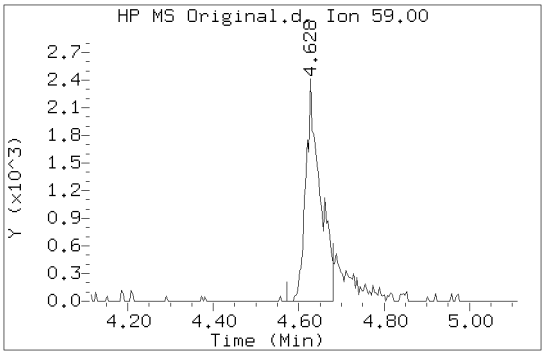

AFTER
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59
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21-Mar-2023
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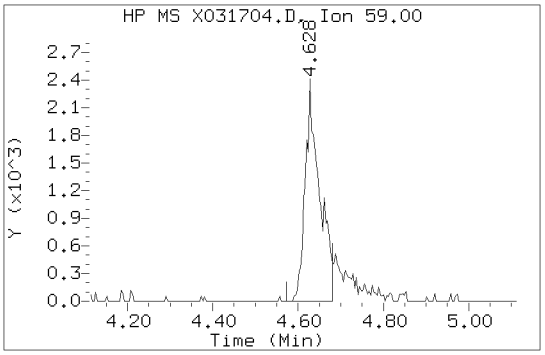

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HEIGHT
0
21-Mar-2023
10:17
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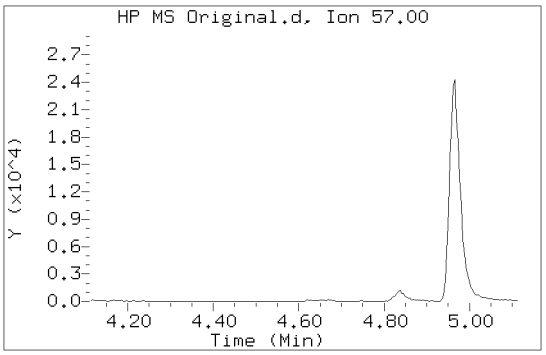

AFTER
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AREA
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HEIGHT
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21-Mar-2023
10:17
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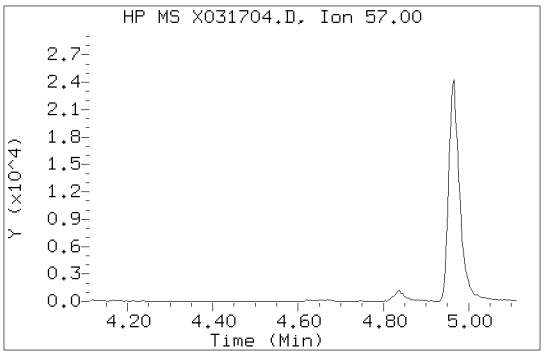
pham



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Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

tert-Butyl formate (762-75-4)

Reason Code:

BEFORE

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41
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21-Mar-2023
10:17
linh
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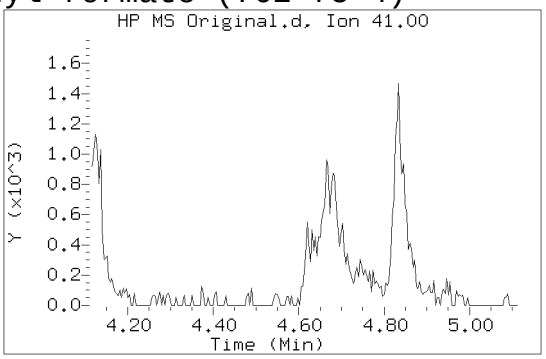

AFTER

MASS
41
AREA
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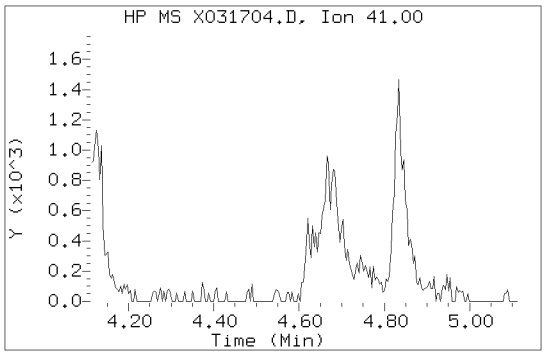
HEIGHT
0
21-Mar-2023
10:17
linh
pham



3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE

MASS
57
AREA
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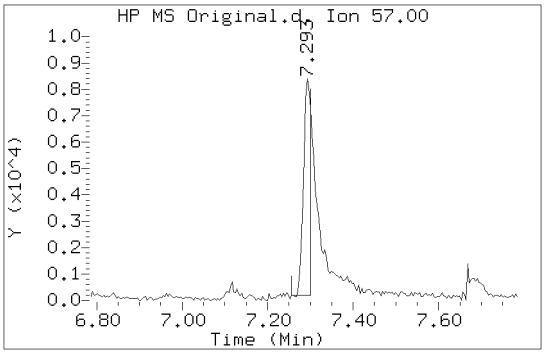
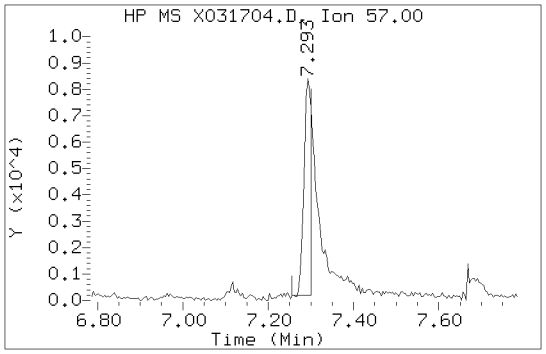
HEIGHT
8210
21-Mar-2023
10:17
linh
pham



AFTER

MASS
57
AREA
9512
HEIGHT
8210
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
67
AREA
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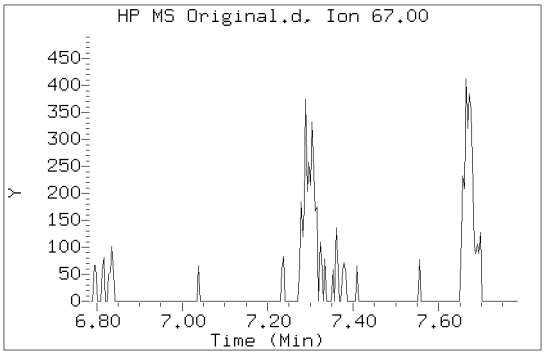
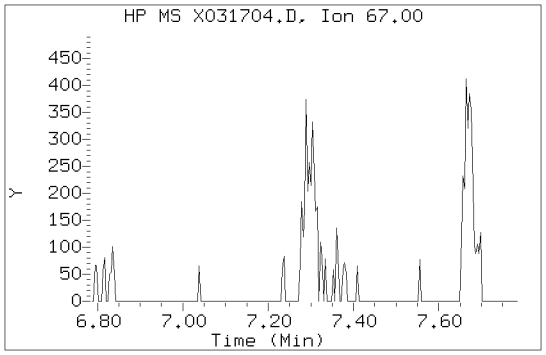
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
67
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



BEFORE

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56
AREA
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HEIGHT
0
21-Mar-2023
10:17
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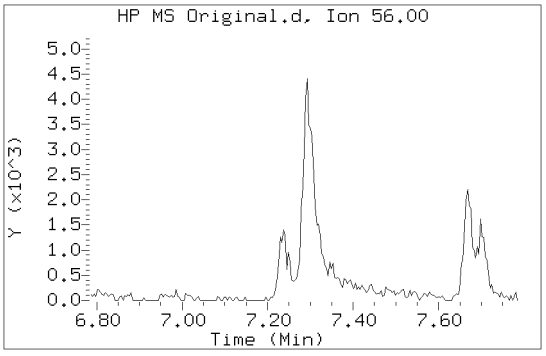
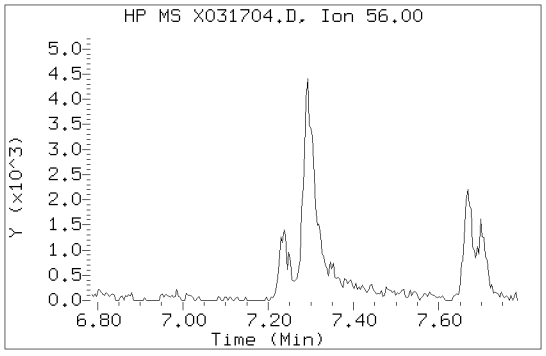


AFTER

MASS
56
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



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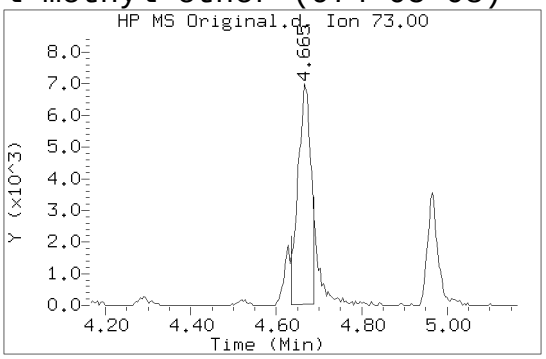
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

tert-Amyl methyl ether (974-05-08)

Reason Code:

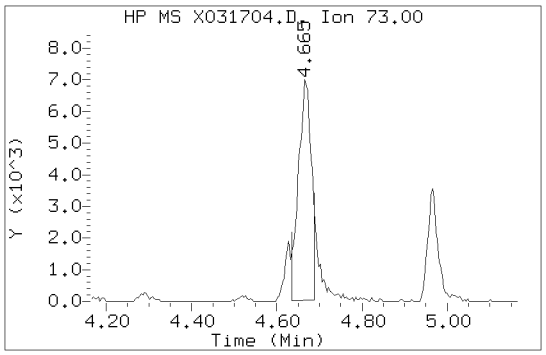
BEFORE

MASS
73
AREA
14951
HEIGHT
6982
21-Mar-2023
10:17
linh
pham



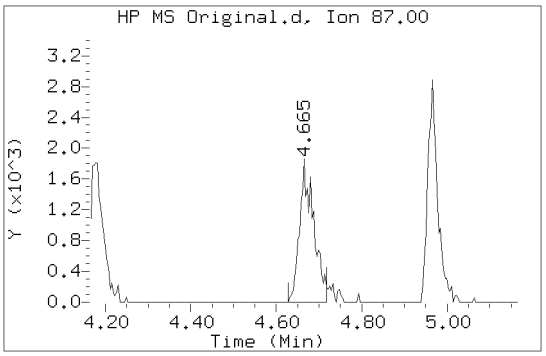
AFTER

MASS
73
AREA
14951
HEIGHT
6982
21-Mar-2023
10:17
linh
pham



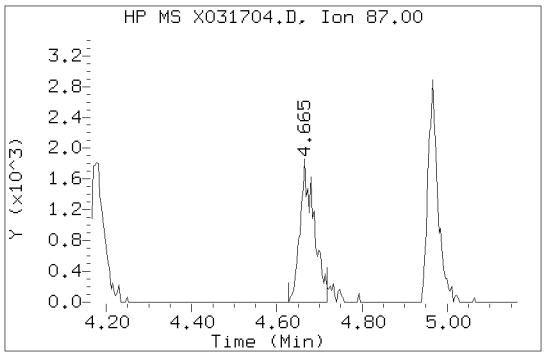
BEFORE

MASS
87
AREA
4319
HEIGHT
1864
21-Mar-2023
10:17
linh
pham



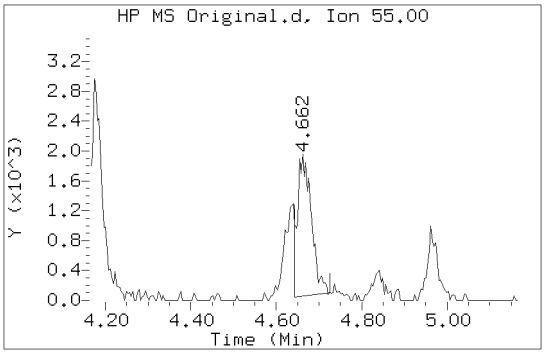
AFTER

MASS
87
AREA
4319
HEIGHT
1864
21-Mar-2023
10:17
linh
pham



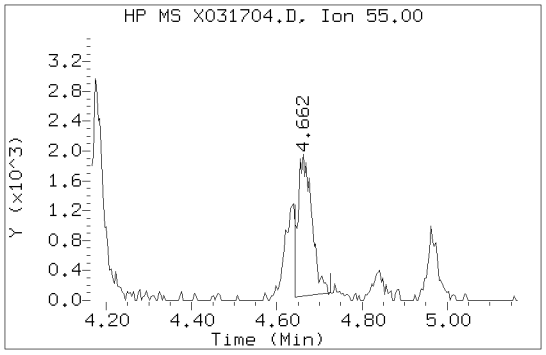
BEFORE

MASS
55
AREA
4389
HEIGHT
1902
21-Mar-2023
10:17
linh
pham



AFTER

MASS
55
AREA
4389
HEIGHT
1902
21-Mar-2023
10:17
linh
pham

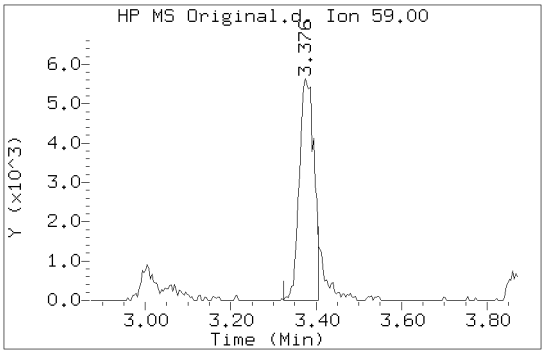


tert-Butyl ethyl ether (637-92-3)

Reason Code:

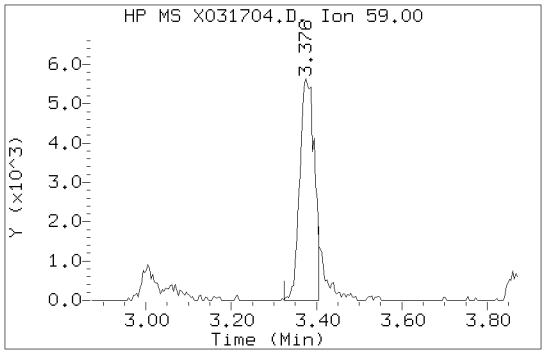
BEFORE

MASS
59
AREA
13706
HEIGHT
5638
21-Mar-2023
10:17
linh
pham



AFTER

MASS
59
AREA
13706
HEIGHT
5638
21-Mar-2023
10:17
linh
pham



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Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

tert-Butyl ethyl ether (637-92-3)

Reason Code:

BEFORE
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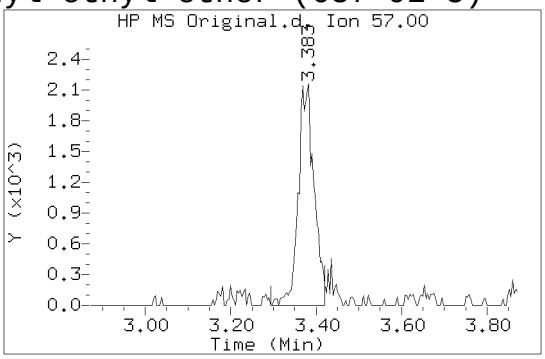
AREA
5639
HEIGHT
2164
21-Mar-2023
10:17
linh
pham



AFTER
MASS
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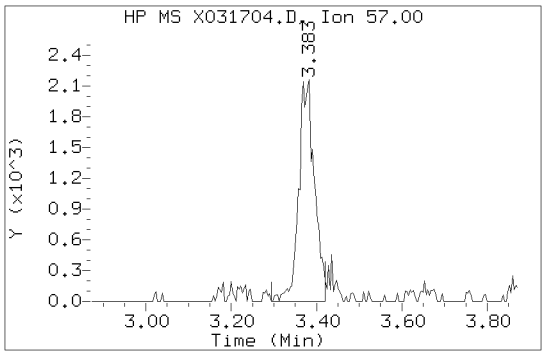
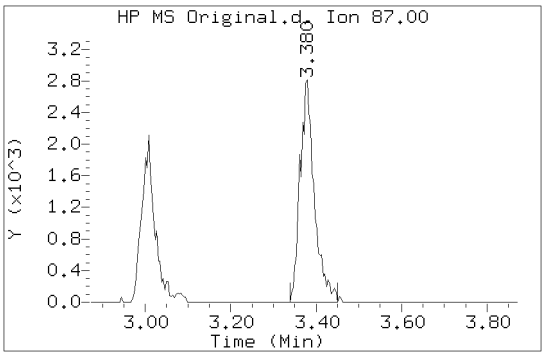
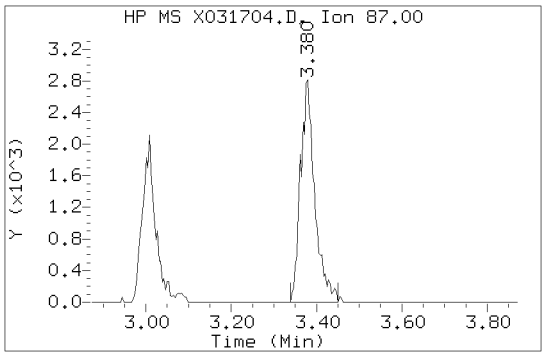
AREA
5639
HEIGHT
2164
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
87
AREA
6630
HEIGHT
2813
21-Mar-2023
10:17
linh
pham



AFTER
MASS
87
AREA
6630
HEIGHT
2813
21-Mar-2023
10:17
linh
pham



Epichlorohydrin (106-89-8)

Reason Code:

BEFORE
MASS
57
AREA
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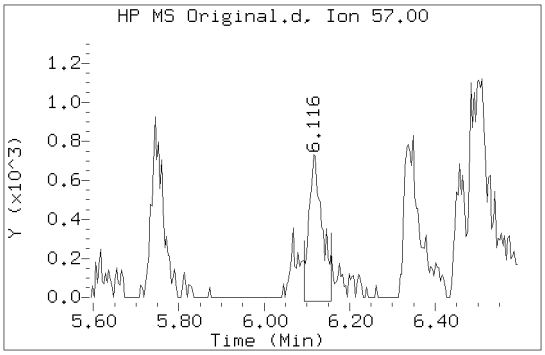
HEIGHT
750
21-Mar-2023
10:17
linh
pham



AFTER
MASS
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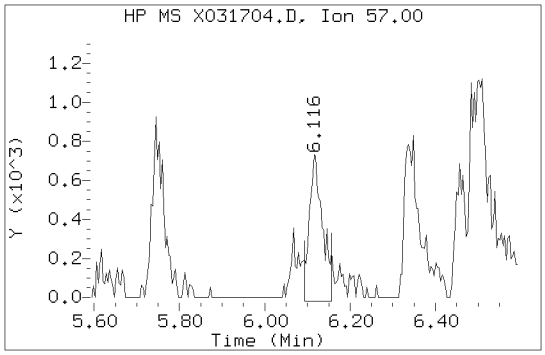
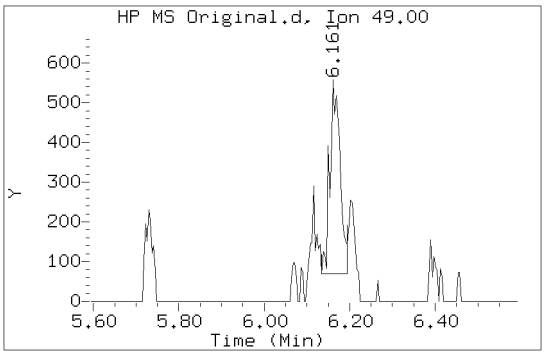
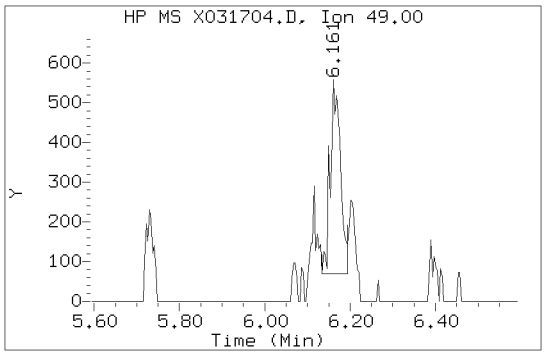
AREA
1658
HEIGHT
750
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
49
AREA
808
HEIGHT
488
21-Mar-2023
10:17
linh
pham



AFTER
MASS
49
AREA
808
HEIGHT
488
21-Mar-2023
10:17
linh
pham



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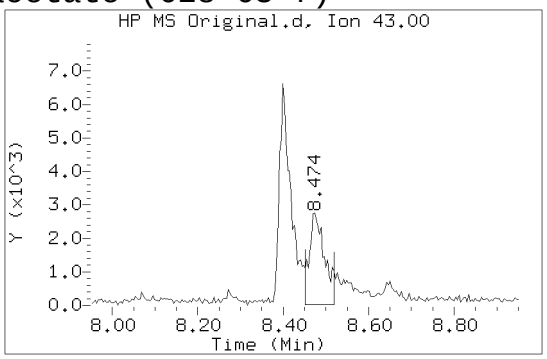
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

n-Amyl acetate (628-63-7)

Reason Code:

BEFORE

MASS
43
AREA
6908
HEIGHT
2721
21-Mar-2023
10:17
linh
pham



AFTER

MASS
43
AREA
6908
HEIGHT
2721
21-Mar-2023
10:17
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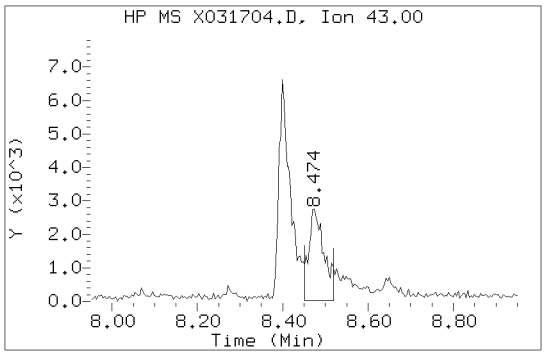
pham



BEFORE

MASS
70
AREA
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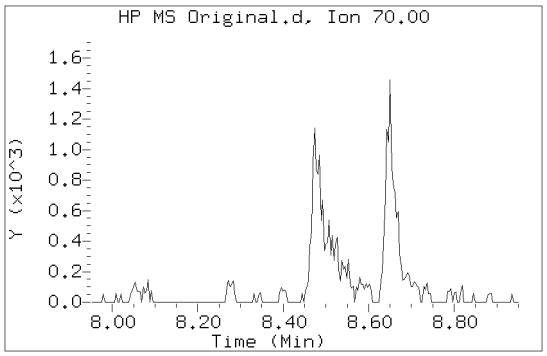
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
70
AREA
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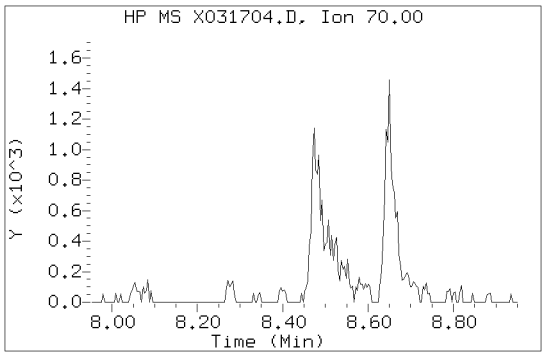
HEIGHT
0
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
87
AREA
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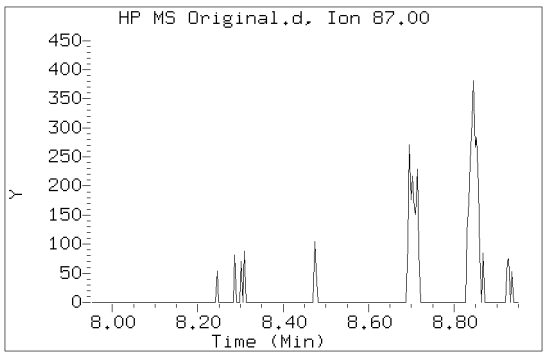
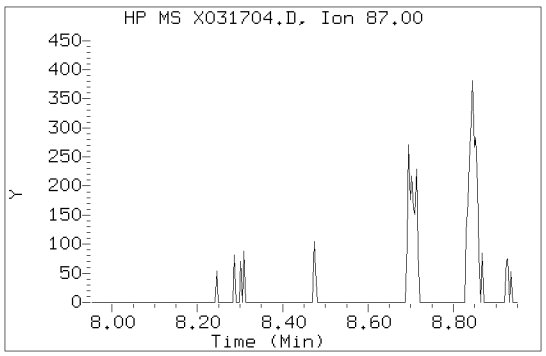
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
87
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

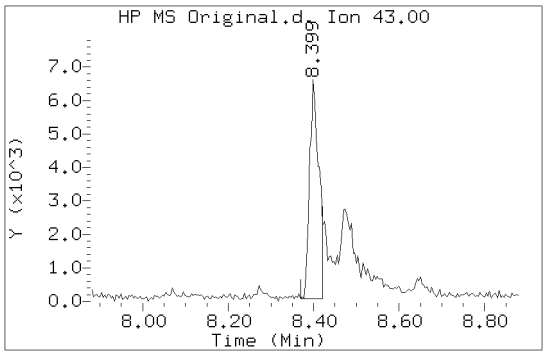


Methyl Amyl Ketone (110-43-0)

Reason Code:

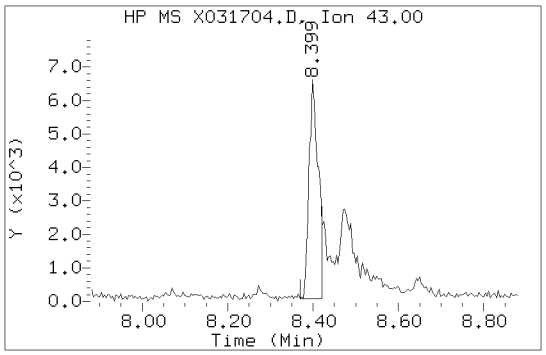
BEFORE

MASS
43
AREA
9932
HEIGHT
6550
21-Mar-2023
10:17
linh
pham



AFTER

MASS
43
AREA
9932
HEIGHT
6550
21-Mar-2023
10:17
linh
pham



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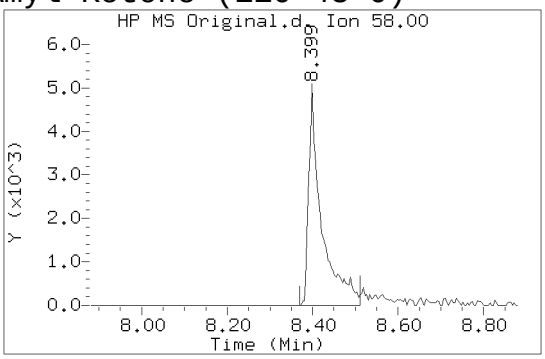
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Methyl Amyl Ketone (110-43-0)

Reason Code:

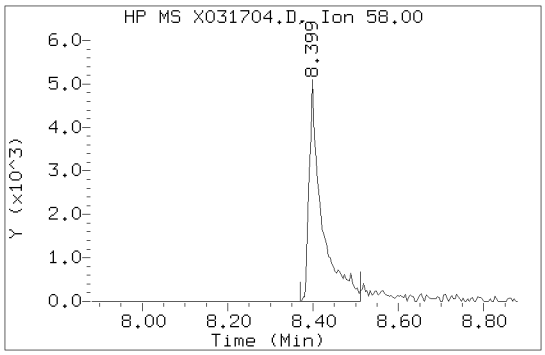
BEFORE

MASS
58
AREA
10632
HEIGHT
5098
21-Mar-2023
10:17
linh
pham



AFTER

MASS
58
AREA
10632
HEIGHT
5098
21-Mar-2023
10:17
linh
pham



BEFORE

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21-Mar-2023
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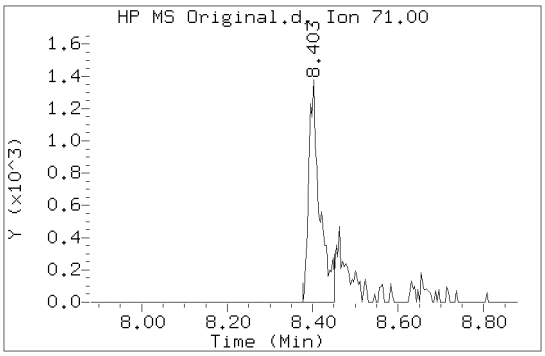

AFTER

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21-Mar-2023
10:17
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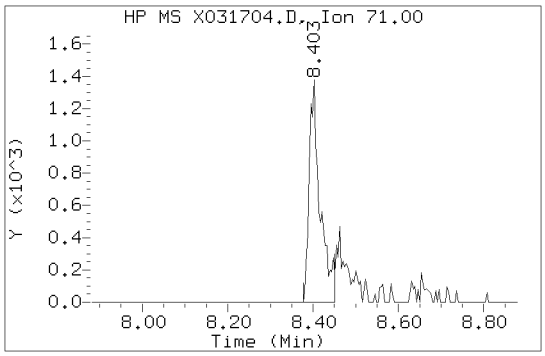

Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE

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21-Mar-2023
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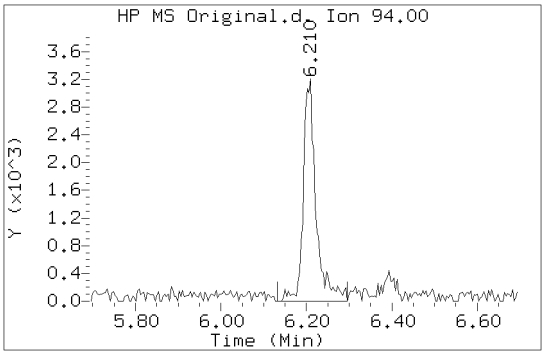

AFTER

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AREA
6718
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21-Mar-2023
10:17
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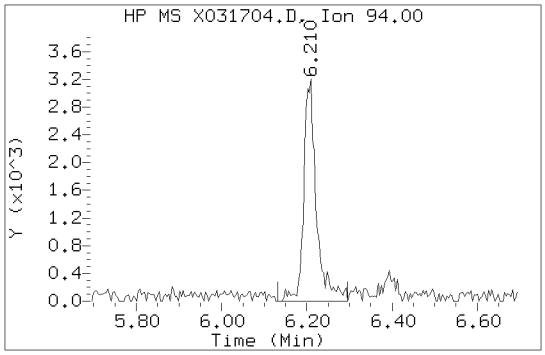
pham



BEFORE

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3238
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1790
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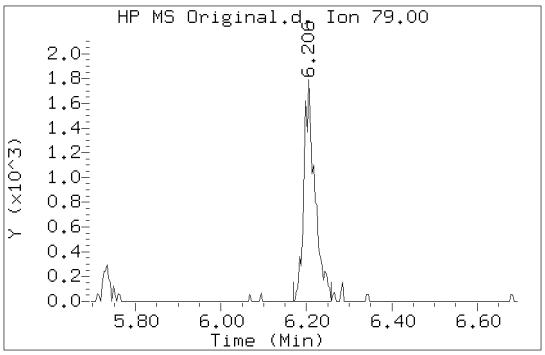

AFTER

MASS
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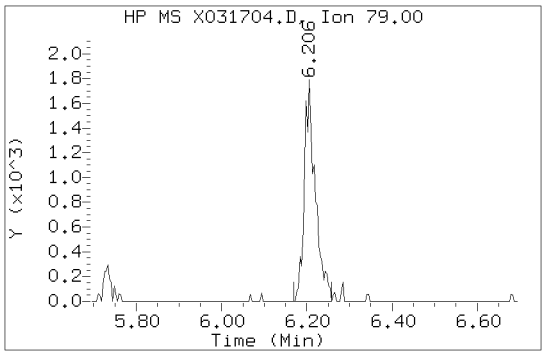
3238
HEIGHT
1790
21-Mar-2023
10:17
linh
pham



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Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE

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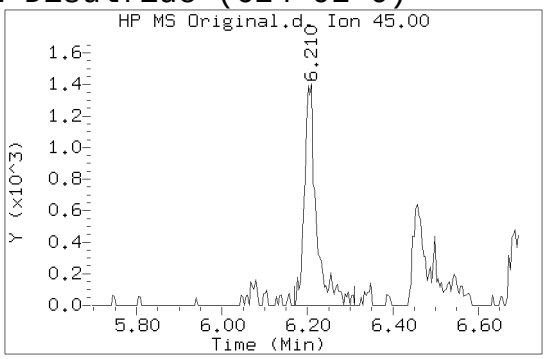
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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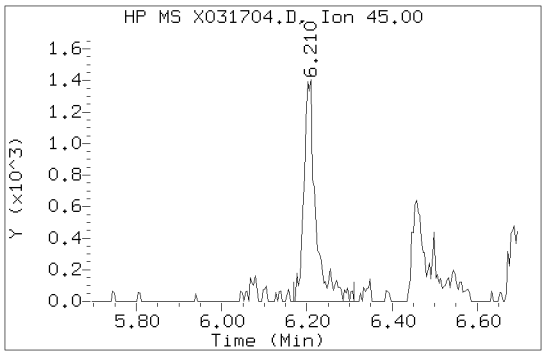
AREA
2788
HEIGHT
1405
21-Mar-2023
10:17
linh
pham



Isobutylene (115-11-7)

Reason Code:

BEFORE

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21-Mar-2023
10:17
linh
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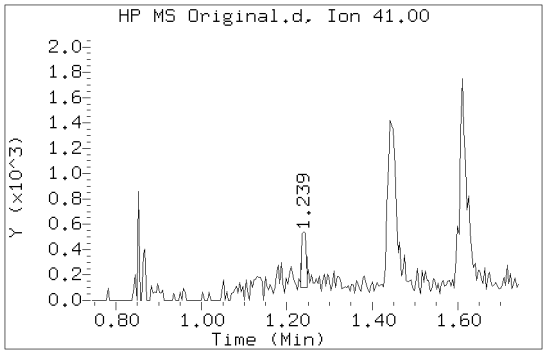

AFTER

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10:17
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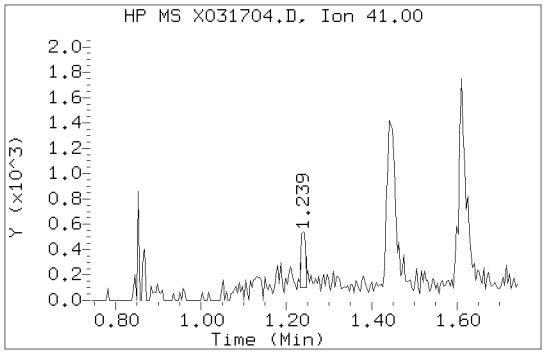

BEFORE

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21-Mar-2023
10:17
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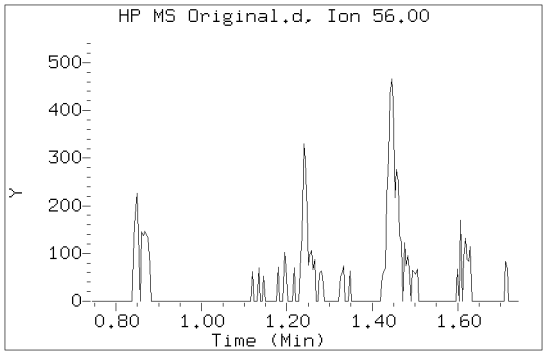

AFTER

MASS
56
AREA
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HEIGHT
0
21-Mar-2023
10:17
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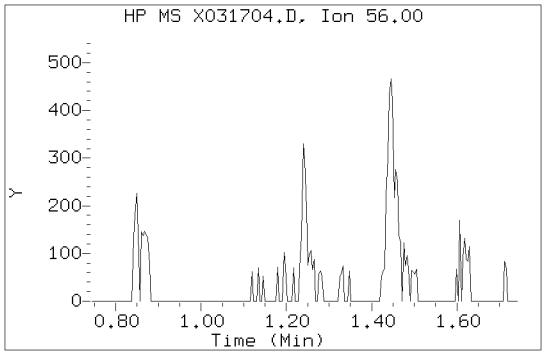
pham



BEFORE

MASS
84
AREA
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HEIGHT
0
21-Mar-2023
10:17
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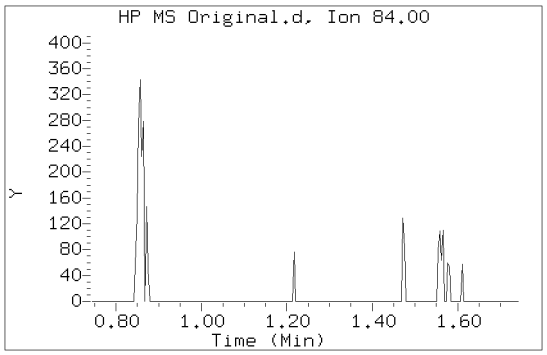

AFTER

MASS
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21-Mar-2023
10:17
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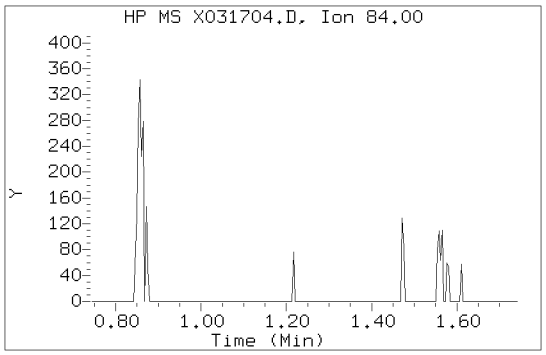
pham



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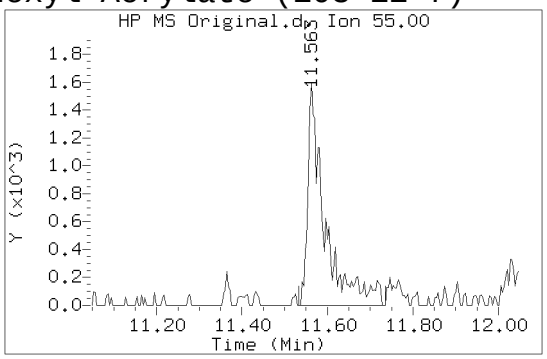
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE

MASS
55
AREA
4375
HEIGHT
1590
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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1590
21-Mar-2023
10:17
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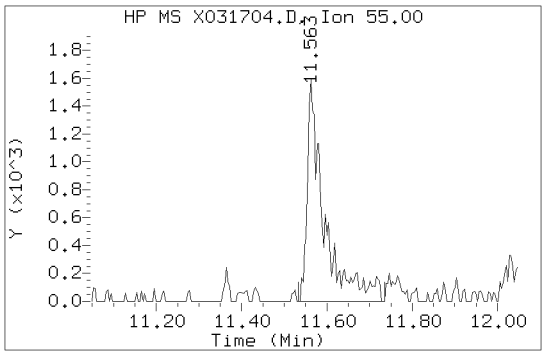

BEFORE

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1306
21-Mar-2023
10:17
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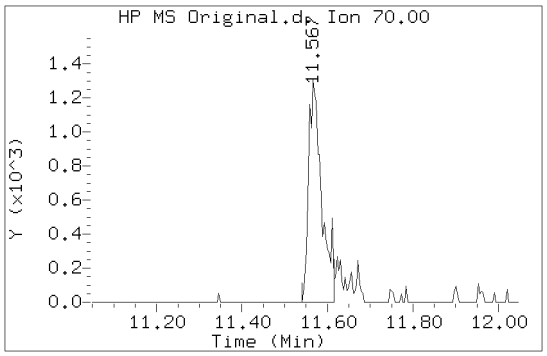
pham



AFTER

MASS
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HEIGHT
1306
21-Mar-2023
10:17
linh
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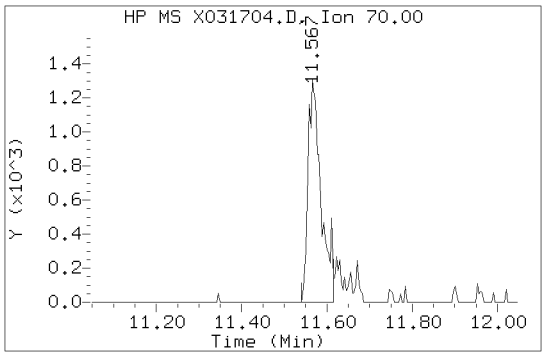

Dibromofluoromethane (1868-53-7)

Reason Code:

BEFORE

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AREA
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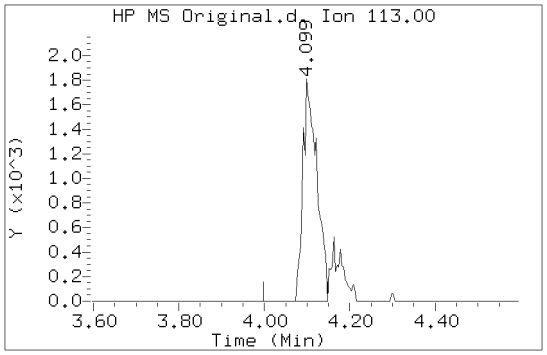
HEIGHT
1810
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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HEIGHT
1810
21-Mar-2023
10:17
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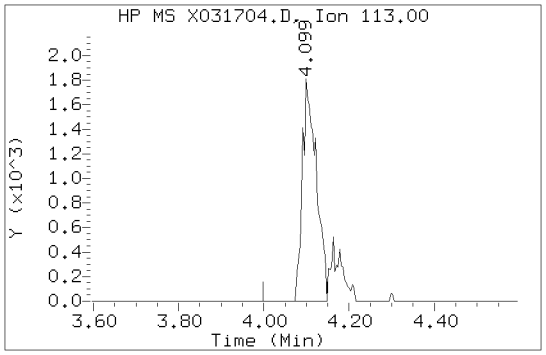
pham



BEFORE

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21-Mar-2023
10:17
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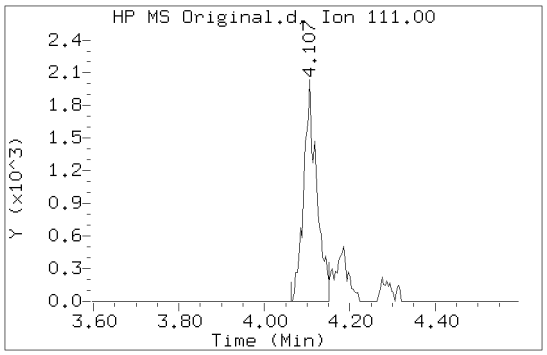

AFTER

MASS
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4274
HEIGHT
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21-Mar-2023
10:17
linh
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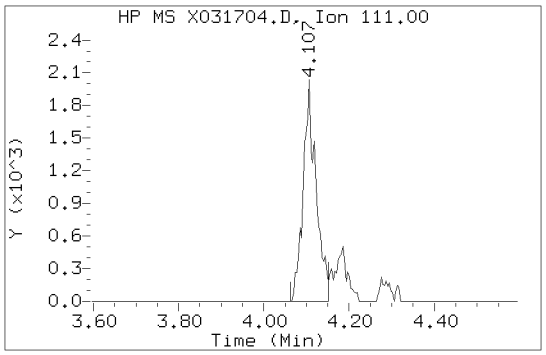

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Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

BEFORE

MASS
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AREA
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HEIGHT
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21-Mar-2023
10:17
linh
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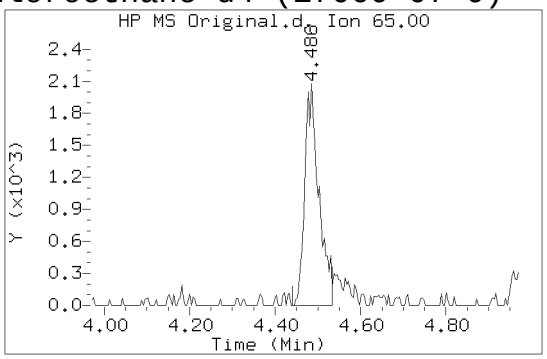

AFTER

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21-Mar-2023
10:17
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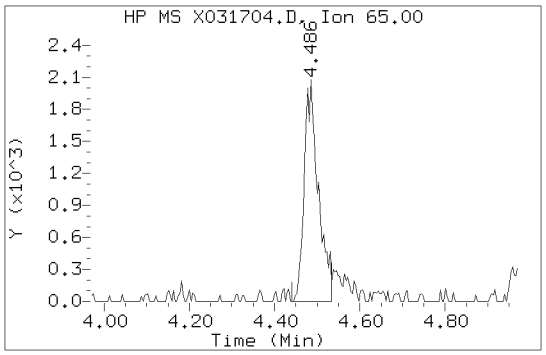
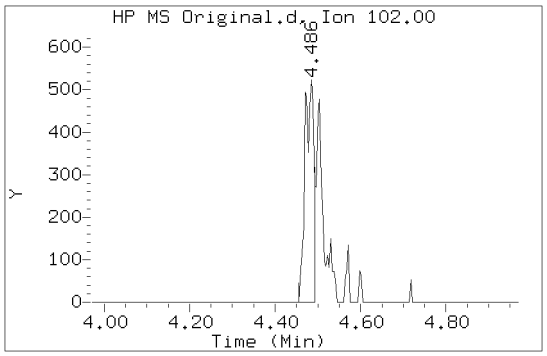


BEFORE

MASS
102
AREA
769
HEIGHT
523
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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AREA
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HEIGHT
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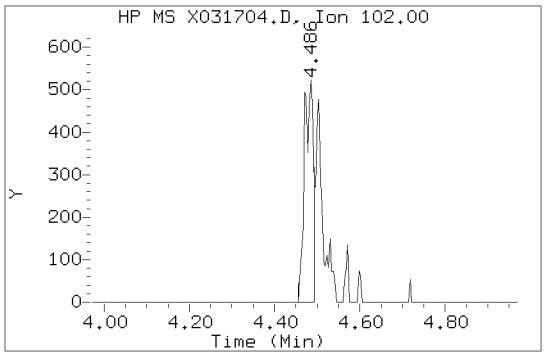
21-Mar-2023
10:17
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D Page 1
Report Date: 21-Mar-2023 10:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
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Inj Date : 17-MAR-2023 12:53
Operator : PC Inst ID: voa6.i
Smp Info : VSTD002;VSTD002;1;4;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 21-Mar-2023 10:19 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 12:32 Cal File: X031704.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.178	4.178	(1.000)	364659	50.0000	
2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	5239	2.00000	2.73(M)
3	Chloromethane	50	1.077	1.077	(0.258)	6153	2.00000	1.83
4	Propionitrile	54	3.671	3.671	(0.879)	10016	20.0000	19.49(a)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	5931	2.00000	2.06
6	Bromomethane	94	1.340	1.340	(0.321)	3119	2.00000	1.88
7	Chloroethane	64	1.407	1.407	(0.337)	4308	2.00000	2.11(M)
8	Trichlorofluoromethane	101	1.561	1.561	(0.374)	6844	2.00000	2.00(M)
9	Acrolein	56	1.449	1.449	(0.347)	794	4.00000	6.82(aM)
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	4645	2.00000	2.12(M)
12	Isobutyl Alcohol	43	4.684	4.684	(1.121)	21441	40.0000	43.09(a)
13	Acetonitrile	39	2.202	2.202	(0.527)	6575	20.0000	19.37(a)
14	Allyl Chloride	41	2.206	2.206	(0.528)	17508	2.00000	2.08(aM)
15	Iodomethane	142	2.026	2.026	(0.485)	2950	4.00000	10.35(TM)
16	Acrylonitrile	53	2.566	2.566	(0.614)	5007	4.00000	4.11(M)
17	Methylene Chloride	84	2.303	2.303	(0.551)	8273	2.00000	0.67(M)
18	Methyl tert-butyl ether	73	2.536	2.536	(0.607)	25413	2.00000	2.20
19	Carbon Disulfide	76	2.071	2.071	(0.496)	33469	4.00000	4.15(M)
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	6559	2.00000	2.12
21	Vinyl Acetate	43	3.012	3.012	(0.721)	36411	4.00000	3.91

22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	12119	2.00000	2.16
23 Chloroprene	53	1.775	1.775 (0.425)	2193	2.00000	2.19(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24 2-Butanone	43	3.653	3.653	(0.874)	4883	4.00000	3.73(M)
	25 Methacrylonitrile	41	3.855	3.855	(0.923)	6754	2.00000	2.00(aM)
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	9195	2.00000	1.84(M)
	27 cis-1,2-Dichloroethene	96	3.533	3.533	(0.846)	7938	2.00000	2.12(M)
	28 Chloroform	83	3.908	3.908	(0.935)	13260	2.00000	2.13
	29 Bromochloromethane	128	3.806	3.806	(0.911)	4554	2.00000	2.15
$	30 Dibromofluoromethane	113	4.103	4.103	(0.982)	8112	2.00000	1.65
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	10154	2.00000	2.18
	32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	8943	2.00000	2.09
	33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	9905	2.00000	1.99
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	8608	2.00000	2.10
$	35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.072)	8436	2.00000	3.14(M)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	597443	50.0000	
	37 Benzene	78	4.519	4.519	(0.910)	31278	2.00000	2.12
	38 Trichloroethene	130	5.212	5.212	(1.050)	8163	2.00000	2.06(a)
	39 Bromodichloromethane	83	5.729	5.729	(1.154)	10361	2.00000	1.98(a)
	40 Methyl Methacrylate	41	5.628	5.628	(1.347)	6140	2.00000	1.88(a)
	41 2-Chloroethylvinyl ether	63	6.063	6.063	(1.221)	5896	4.00000	3.71(a)
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	7975	2.00000	2.01(aM)
	43 2-Nitropropane	43	5.981	5.981	(1.432)	2524	2.00000	2.20(aH)
	44 Dibromomethane	93	5.553	5.553	(1.119)	5441	2.00000	2.15(a)
	45 4-Methyl-2-Pentanone	43	6.337	6.337	(0.826)	14850	4.00000	4.06(a)
	46 cis-1,3-Dichloropropene	75	6.164	6.164	(1.242)	12938	2.00000	1.96(a)
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	576718	50.0000	
$	48 Toluene-d8	98	6.393	6.393	(0.834)	30210	2.00000	2.11(a)
	49 Ethyl Methacrylate	69	6.719	6.719	(1.353)	8792	2.00000	1.99(aM)
	50 Toluene	91	6.453	6.453	(0.842)	30980	2.00000	2.04(a)
	51 trans-1,3-Dichloropropene	75	6.697	6.697	(1.349)	10834	2.00000	1.98(a)
	52 2-Hexanone	43	7.101	7.101	(0.926)	9933	4.00000	3.96(a)
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	6985	2.00000	2.12(a)
	54 1,3-Dichloropropane	76	6.989	6.989	(0.912)	12902	2.00000	1.97(a)
	55 Dibromochloromethane	129	7.180	7.180	(0.936)	9156	2.00000	1.97(a)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	6397	2.00000	2.10(a)
	57 1,2-Dibromoethane	107	7.266	7.266	(0.948)	8051	2.00000	1.97(a)
	58 1-Chlorohexane	55	7.701	7.701	(1.551)	5763	2.00000	4.16(aM)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	21632	2.00000	2.00(a)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	7846	2.00000	1.88(a)
	61 Ethylbenzene	106	7.802	7.802	(1.018)	10767	2.00000	2.02(a)
	62 m,p-Xylenes	106	7.907	7.907	(1.031)	28543	4.00000	4.26(a)
	63 o-Xylene	106	8.249	8.249	(1.076)	13509	2.00000	2.00(a)
	64 Styrene	104	8.275	8.275	(1.079)	22147	2.00000	1.99(a)
	66 Bromoform	173	8.417	8.417	(1.098)	5755	2.00000	1.79(Ta)
	67 Isopropylbenzene	105	8.563	8.563	(1.117)	33960	2.00000	2.20(a)
	68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	11107	2.00000	2.02(a)
$	69 4-Bromofluorobenzene	95	8.698	8.698	(1.134)	12929	2.00000	2.19(a)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	315380	50.0000	
	71 1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	8328	2.00000	2.01(aM)
	72 trans-1,4-Dichloro-2-butene	53	8.912	8.912	(1.162)	1998	2.00000	2.06(aM)
	73 n-Propylbenzene	91	8.916	8.916	(0.923)	37463	2.00000	2.13(a)
	74 Bromobenzene	156	8.811	8.811	(0.912)	10245	2.00000	2.02(a)
	75 1,3,5-Trimethylbenzene	105	9.070	9.070	(0.939)	28741	2.00000	2.11(a)
	76 2-Chlorotoluene	91	8.976	8.976	(0.929)	25156	2.00000	2.13(aM)

77 4-Chlorotoluene	91	9.081	9.081 (0.940)	27602	2.00000	2.07(a)
78 tert-Butylbenzene	119	9.336	9.336 (0.966)	23670	2.00000	2.18(aM)

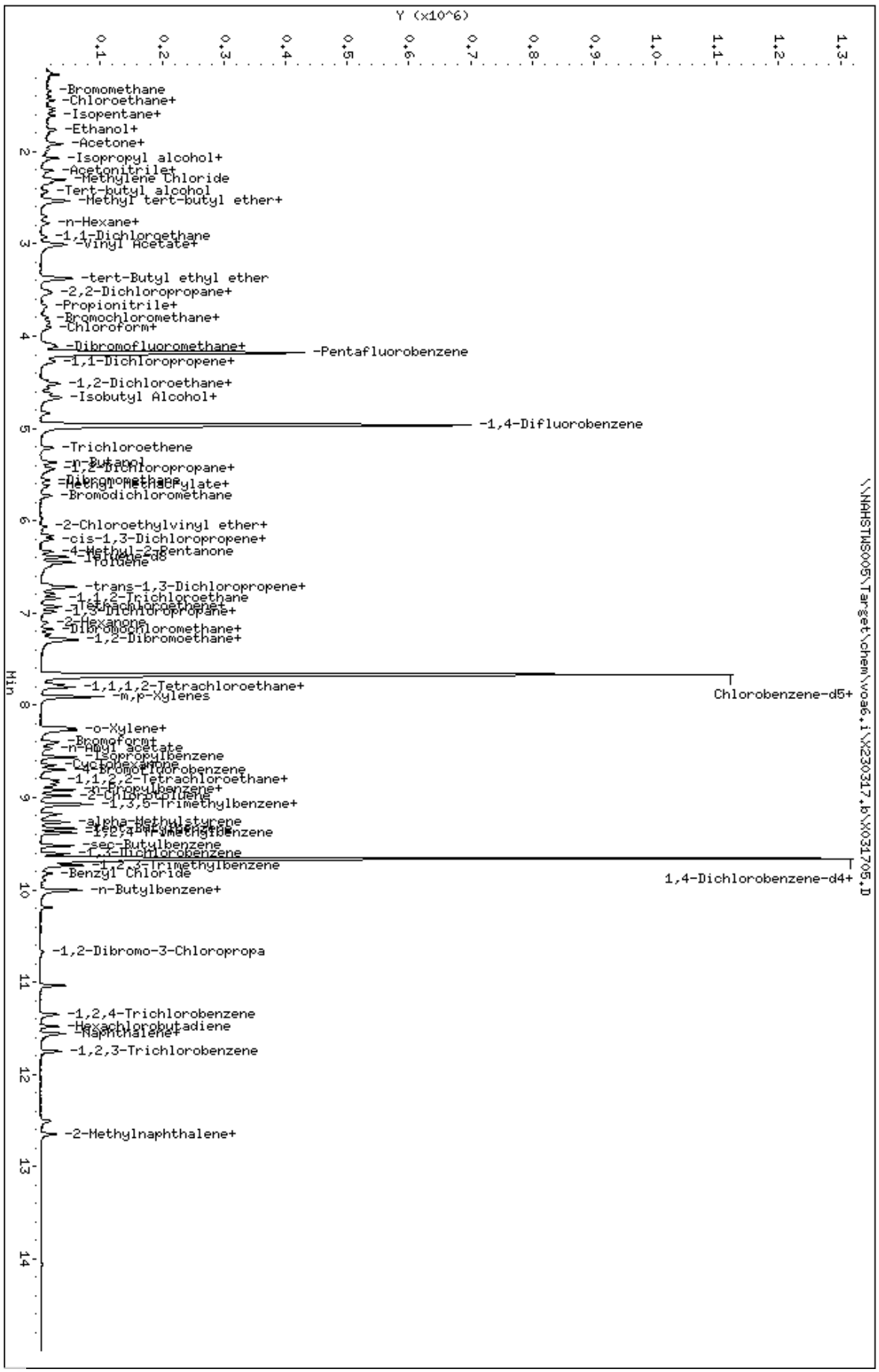
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.384	9.384	(0.971)	28719	2.00000	2.05(aM)
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	32067	2.00000	2.18(aM)
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	27213	2.00000	2.07(aM)
83	1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	18159	2.00000	2.07(a)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	19879	2.00000	2.10(a)
86	Benzyl Chloride	91	9.823	9.823	(1.281)	13841	2.00000	3.01(a)
87	n-Butylbenzene	91	10.003	10.003	(1.035)	21203	2.00000	2.00(aM)
88	1,2-Dichlorobenzene	146	9.999	9.999	(1.035)	17795	2.00000	2.02(aM)
89	1,2-Dibromo-3-Chloropropane	155	10.681	10.681	(1.106)	1655	2.00000	3.06(a)
90	1,2,4-Trichlorobenzene	180	11.352	11.352	(1.175)	12885	2.00000	2.00(a)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	5380	2.00000	3.98(aM)
92	Naphthalene	128	11.559	11.559	(1.196)	27823	2.00000	1.80(a)
93	1,2,3-Trichlorobenzene	180	11.754	11.754	(1.216)	12110	2.00000	1.97(a)
146	Methyl acetate	43	2.243	2.243	(0.537)	4084	2.00000	1.94(a)
138	Freon TF	101	1.917	1.917	(0.459)	4071	2.00000	3.24(aM)
141	Cyclohexane	56	4.118	4.118	(0.986)	7493	2.00000	3.68(aM)
142	Tetrahydrofuran	42	3.863	3.863	(0.925)	2463	4.00000	4.13(aM)
147	Methylcyclohexane	55	5.407	5.407	(1.089)	16726	2.00000	2.02(aM)
135	1,4-Dioxane	88	5.610	5.610	(1.343)	1966	40.0000	40.63(M)
132	n-Butanol	56	5.366	5.366	(1.284)	3165	40.0000	64.20(aM)
131	Methyl Acrylate	55	3.731	3.731	(0.893)	7555	2.00000	2.00(aM)
133	Ethyl Acrylate	55	5.407	5.407	(1.294)	15497	2.00000	1.94(M)
136	n-Hexane	57	2.772	2.772	(0.664)	5204	2.00000	2.77(aM)
139	Diethyl ether	59	1.756	1.756	(0.420)	4986	2.00000	2.04(aM)
148	Tert-butyl alcohol	59	2.434	2.434	(0.583)	16456	40.0000	43.09
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	8264	40.0000	40.49
156	Diisopropyl ether	45	3.004	3.004	(0.719)	24334	2.00000	2.14(Ta)
160	2-Methylnaphthalene	142	12.649	12.649	(1.309)	13999	2.00000	1.83
166	1,2,3-Trimethylbenzene	105	9.733	9.733	(1.007)	31975	2.00000	2.11(a)
167	Ethanol	45	1.696	1.696	(0.406)	1323	40.0000	40.45
172	tert-Butyl formate	59	4.624	4.624	(1.107)	11320	4.00000	3.80(aM)
173	3,3-Dimethyl-1-butanol	57	7.293	7.293	(0.951)	18400	40.0000	41.40(M)
174	tert-Amyl methyl ether	73	4.669	4.669	(1.118)	26677	2.00000	2.04(aM)
175	tert-Butyl ethyl ether	59	3.372	3.372	(0.807)	24578	2.00000	2.07(aM)
176	tert-Amyl alcohol	59	4.624	4.624	(1.107)	12773	40.0000	40.93(M)
151	4-Methyl-2-pentanol	45	6.719	6.719	(1.353)	32931	40.0000	37.76(M)
180	1-Methylnaphthalene	142	12.649	12.649	(1.309)	13999	2.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	5210	2.00000	2.10(a)
152	Amyl alcohol	42	6.933	6.933	(0.904)	3699	40.0000	35.58(M)
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	9922	2.00000	2.19(M)
159	Propylene oxide	43	1.801	1.801	(0.431)	847	4.00000	3.72(a)
161	3-Methyl-1-butanol	55	6.959	6.959	(0.908)	3723	40.0000	36.98(M)
162	Butyl acrylate	55	8.267	8.267	(1.078)	15986	2.00000	1.87(a)
182	Epichlorohydrin	57	6.108	6.108	(1.230)	2850	8.00000	8.36
M 94	1,2-Dichloroethylene (total)	96				14497	4.00000	(a)
130	Ethyl Acetate	43	3.679	3.679	(0.881)	7453	2.00000	1.97(aM)
134	Cyclohexanone	55	8.646	8.646	(0.895)	7426	40.0000	39.64(aM)
185	Isoprene	39	1.771	1.771	(0.424)	1305	2.00000	1.86(aM)
188	Isopropyl acetate	43	4.684	4.684	(0.943)	21441	2.00000	1.98(a)
187	n-Amyl acetate	43	8.466	8.466	(1.104)	13808	2.00000	1.92(aM)
189	n-Butyl acetate	43	7.229	7.229	(0.943)	11156	2.00000	1.82(aM)
150	Allyl alcohol	57	2.772	2.772	(0.664)	4552	40.0000	48.82(M)

194 Acetaldehyde	44	1.209	1.209 (0.289)	3379	8.00000	14.77(M)
195 Methyl Amyl Ketone	43	8.395	8.395 (1.095)	17942	2.00000	1.96(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
200 Dimethyl Disulfide	94	6.202	6.202	(0.809)	12235	2.00000	1.62(a)
202 Isobutylene	41	1.246	1.246	(0.298)	607	2.00000	2.00(aM)
205 2-Ethylhexyl Acrylate	55	11.562	11.562	(1.197)	8380	2.00000	1.79(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: PC
Column diameter: 0.18

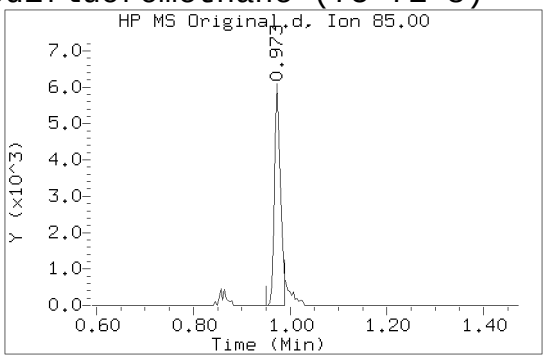
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

Reason Code:

BEFORE

MASS
85
AREA
5239
HEIGHT
6097
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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21-Mar-2023
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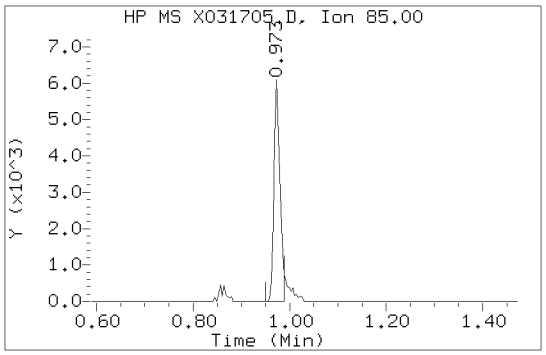

BEFORE

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2127
21-Mar-2023
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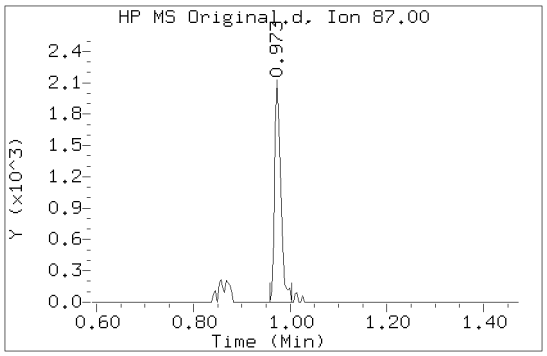

AFTER

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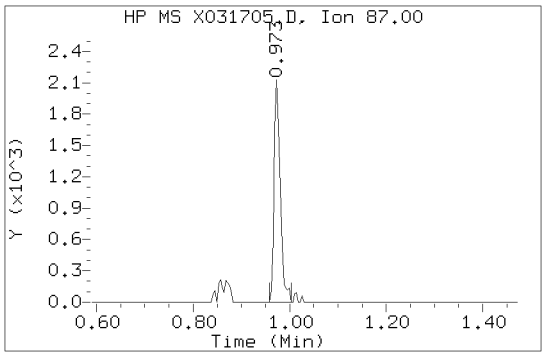

Chloroethane (75-00-3)

Reason Code:

BEFORE

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21-Mar-2023
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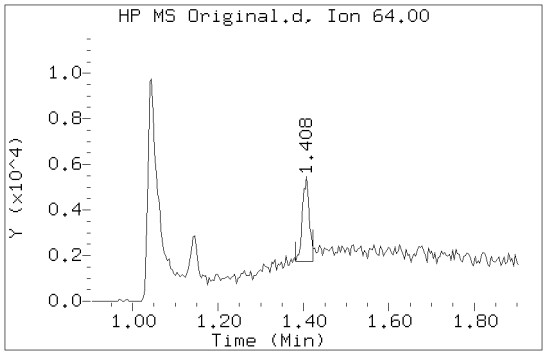

AFTER

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21-Mar-2023
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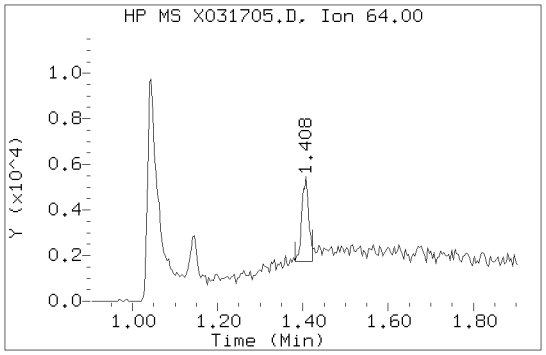

BEFORE

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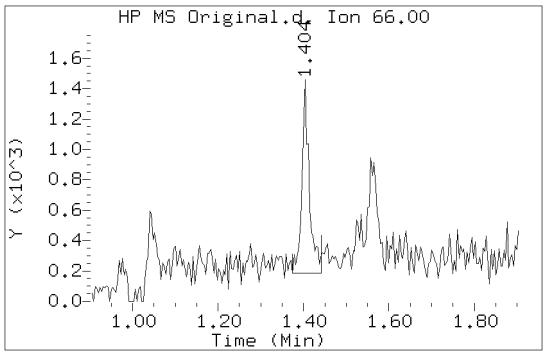

AFTER

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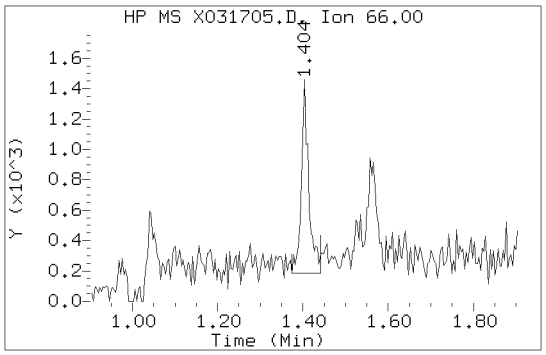

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Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Trichlorofluoromethane (75-69-4)

Reason Code:

BEFORE

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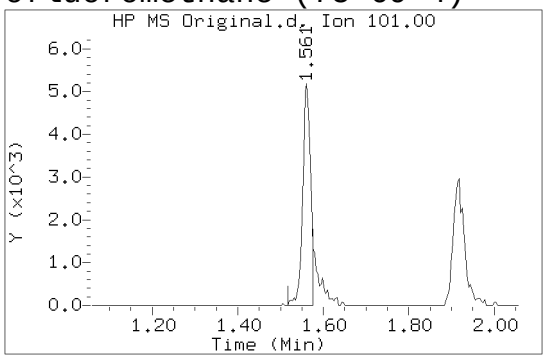
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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AREA
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21-Mar-2023
10:17
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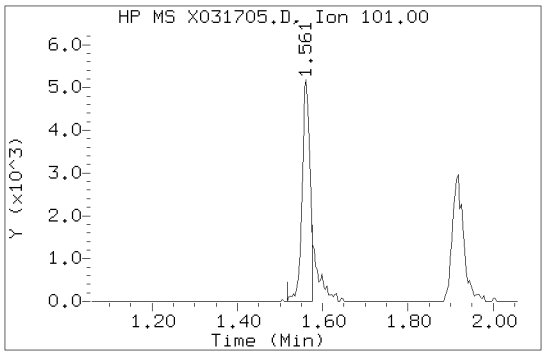

BEFORE

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10:17
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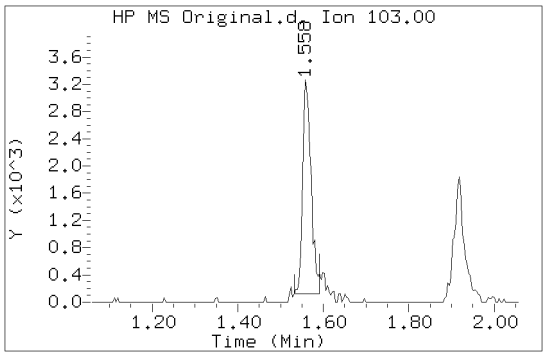

AFTER

MASS
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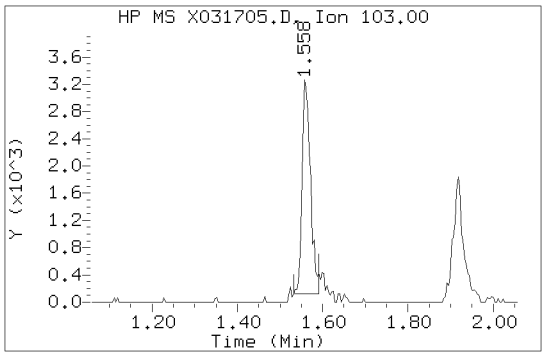

Acetone (67-64-1)

Reason Code:

BEFORE

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AREA
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HEIGHT
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21-Mar-2023
10:17
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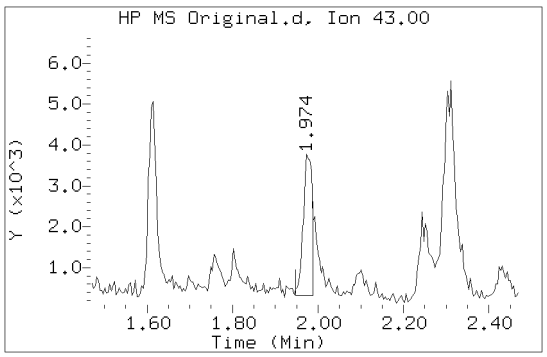

AFTER

MASS
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HEIGHT
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21-Mar-2023
10:17
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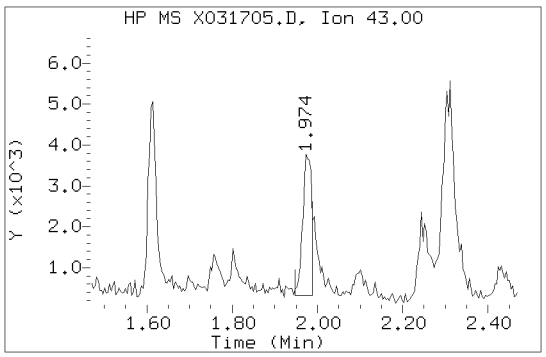

BEFORE

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21-Mar-2023
10:17
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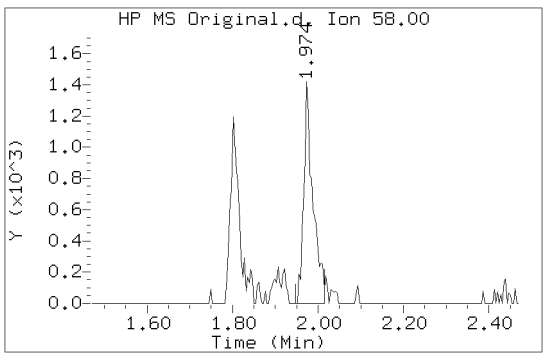

AFTER

MASS
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2146
HEIGHT
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21-Mar-2023
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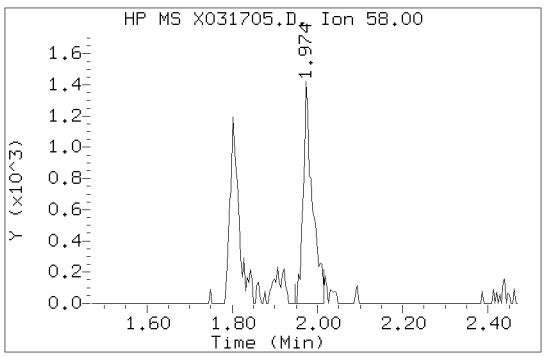

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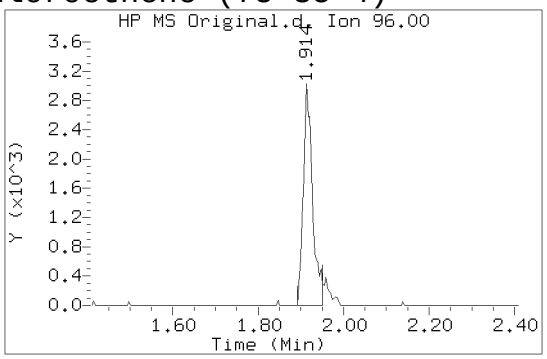
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

1,1-Dichloroethene (75-35-4)

Reason Code:

BEFORE

MASS
96
AREA
4645
HEIGHT
3028
21-Mar-2023
10:17
linh
pham



AFTER

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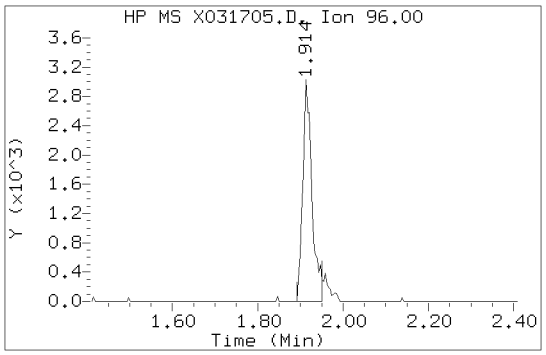

BEFORE

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4320
21-Mar-2023
10:17
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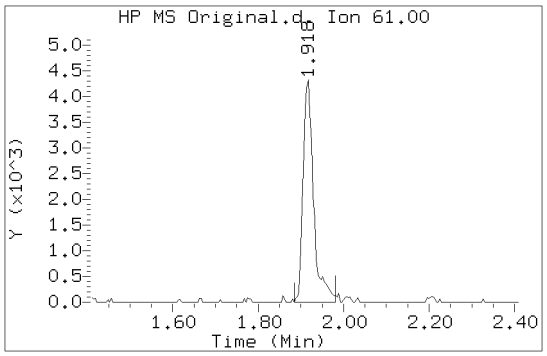

AFTER

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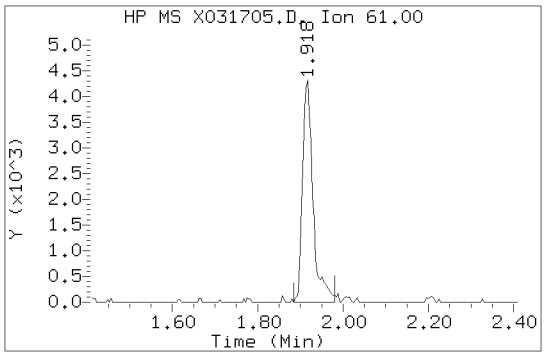

BEFORE

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21-Mar-2023
10:17
linh
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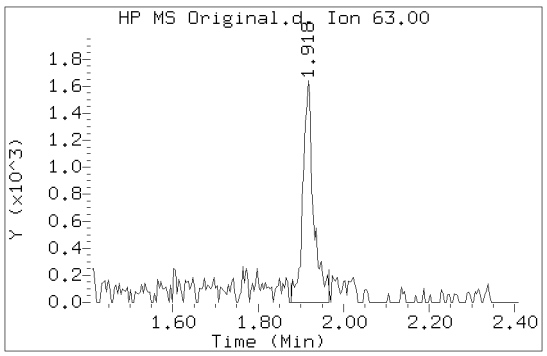

AFTER

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AREA
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1641
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10:17
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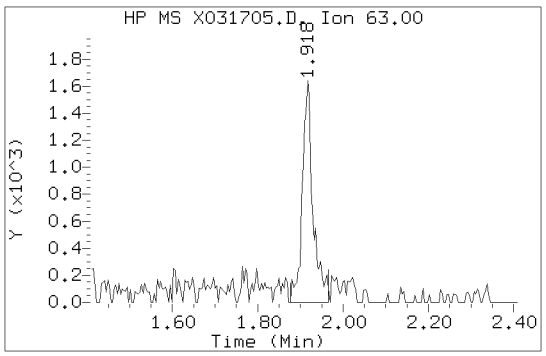

Iodomethane (74-88-4)

Reason Code:

BEFORE

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AREA
2950
HEIGHT
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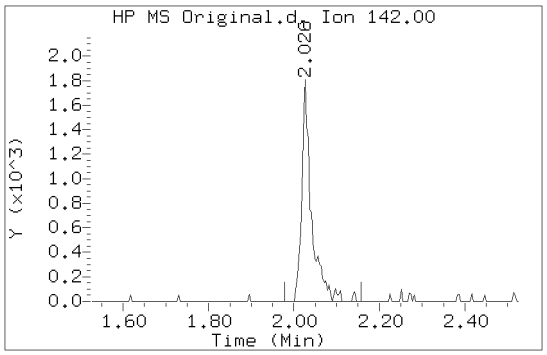
21-Mar-2023
10:17
linh
pham



AFTER

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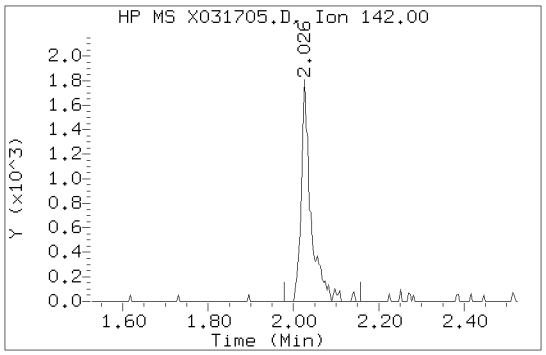
linh
pham



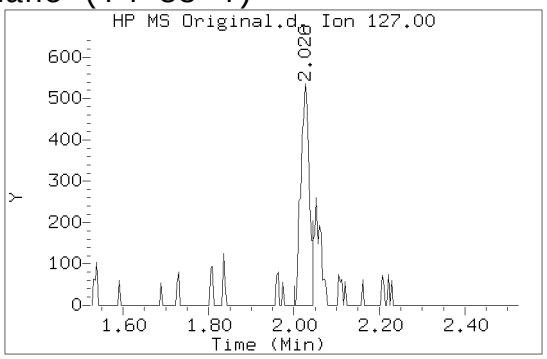
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Iodomethane (74-88-4)

Reason Code:

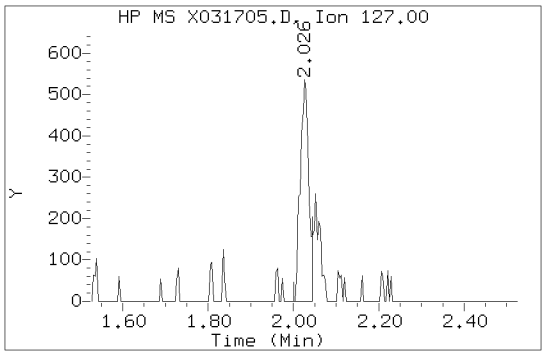
BEFORE

MASS
127
AREA
774
HEIGHT
536
21-Mar-2023
10:17
linh
pham



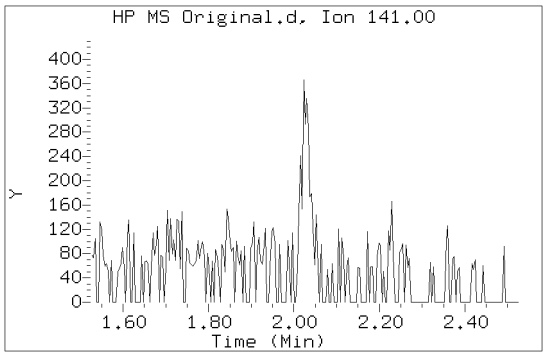
AFTER

MASS
127
AREA
774
HEIGHT
536
21-Mar-2023
10:17
linh
pham



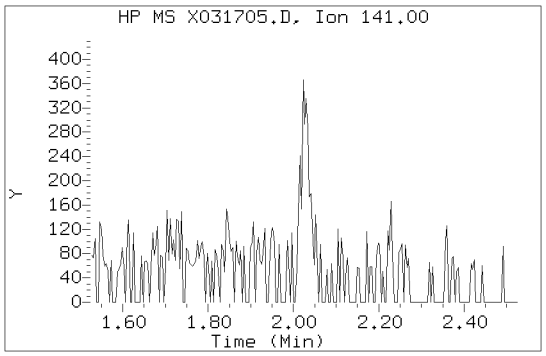
BEFORE

MASS
141
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
141
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

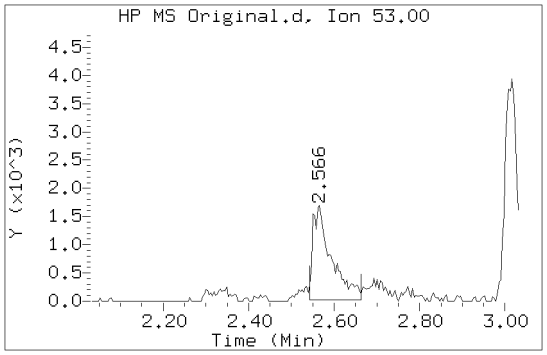


Acrylonitrile (107-13-1)

Reason Code:

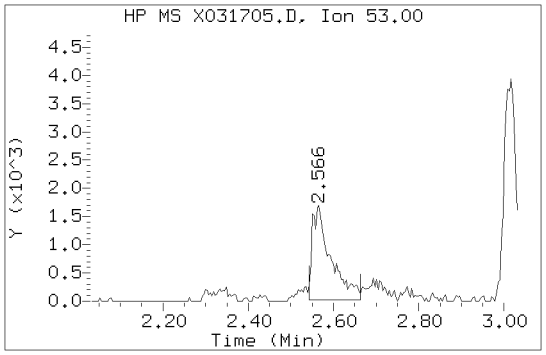
BEFORE

MASS
53
AREA
5007
HEIGHT
1665
21-Mar-2023
10:17
linh
pham



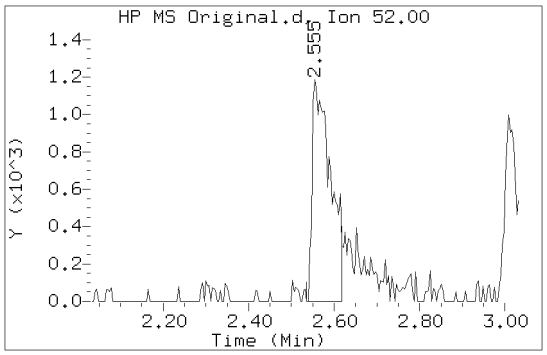
AFTER

MASS
53
AREA
5007
HEIGHT
1665
21-Mar-2023
10:17
linh
pham



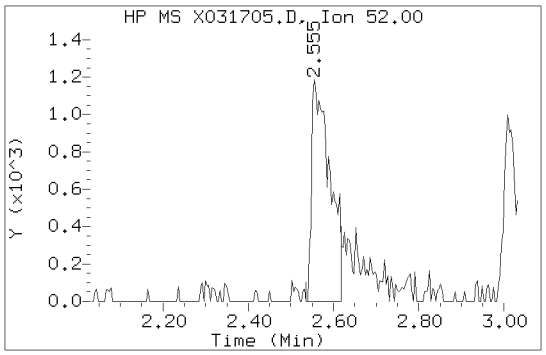
BEFORE

MASS
52
AREA
3529
HEIGHT
1186
21-Mar-2023
10:17
linh
pham



AFTER

MASS
52
AREA
3529
HEIGHT
1186
21-Mar-2023
10:17
linh
pham



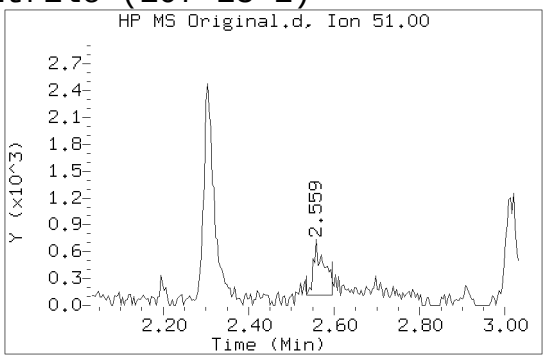
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Acrylonitrile (107-13-1)

Reason Code:

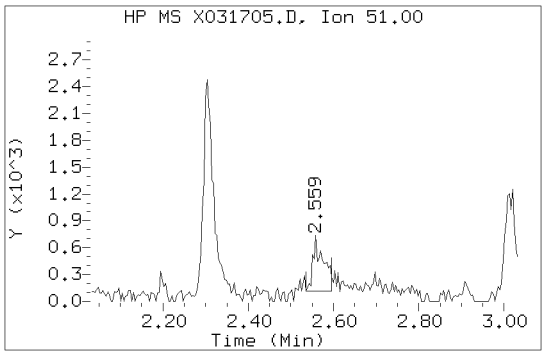
BEFORE

MASS
51
AREA
1061
HEIGHT
622
21-Mar-2023
10:17
linh
pham



AFTER

MASS
51
AREA
1061
HEIGHT
622
21-Mar-2023
10:17
linh
pham

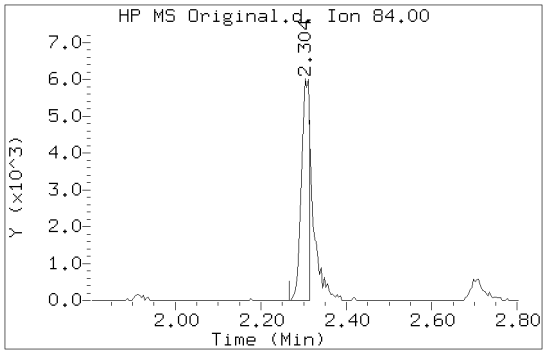


Methylene Chloride (75-09-2)

Reason Code:

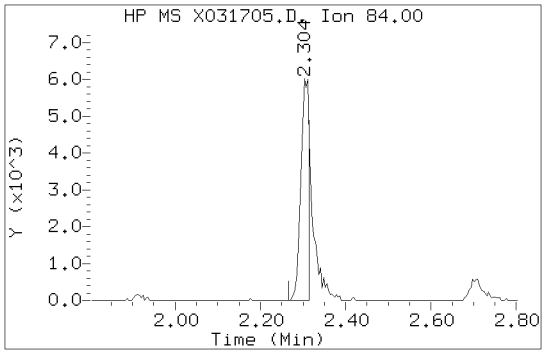
BEFORE

MASS
84
AREA
8273
HEIGHT
6022
21-Mar-2023
10:17
linh
pham



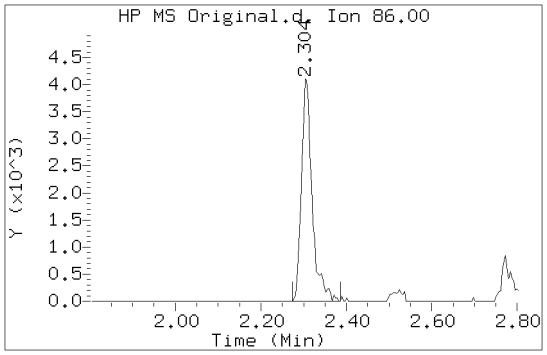
AFTER

MASS
84
AREA
8273
HEIGHT
6022
21-Mar-2023
10:17
linh
pham



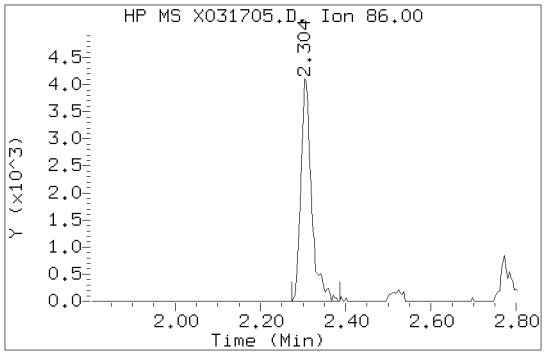
BEFORE

MASS
86
AREA
7326
HEIGHT
4107
21-Mar-2023
10:17
linh
pham



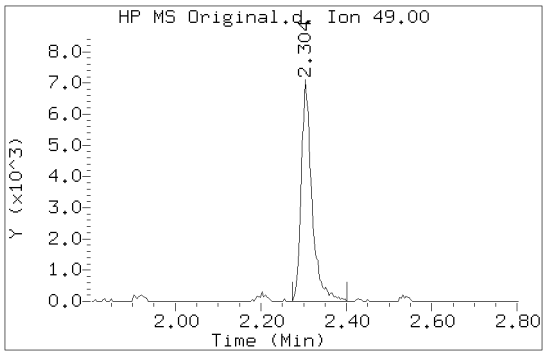
AFTER

MASS
86
AREA
7326
HEIGHT
4107
21-Mar-2023
10:17
linh
pham



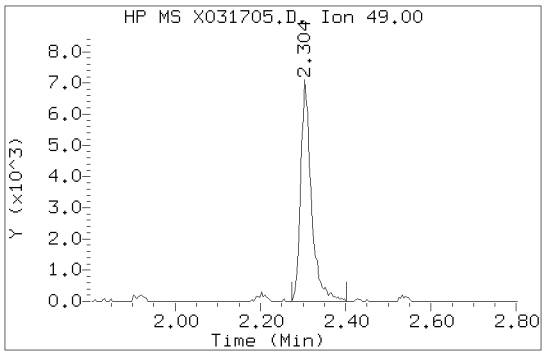
BEFORE

MASS
49
AREA
12668
HEIGHT
7105
21-Mar-2023
10:17
linh
pham



AFTER

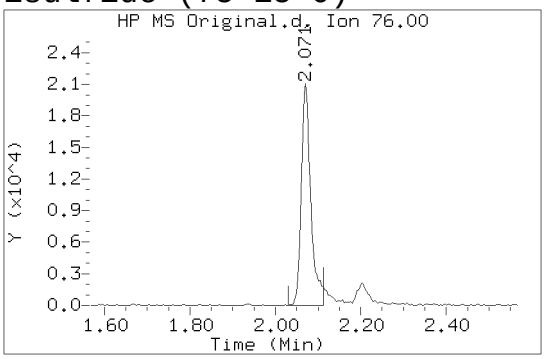
MASS
49
AREA
12668
HEIGHT
7105
21-Mar-2023
10:17
linh
pham



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

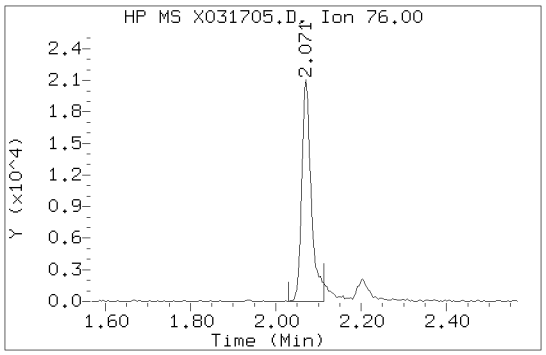
Carbon Disulfide (75-15-0)

BEFORE
MASS
76
AREA
33469
HEIGHT
21056
21-Mar-2023
10:17
linh
pham

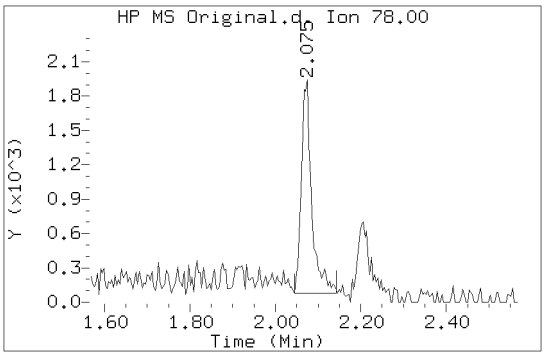


Reason Code:

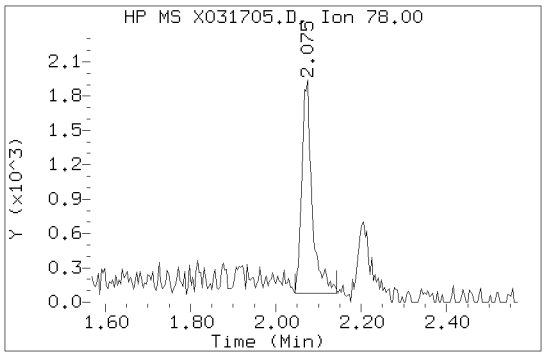
AFTER
MASS
76
AREA
33469
HEIGHT
21056
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
78
AREA
3221
HEIGHT
1865
21-Mar-2023
10:17
linh
pham



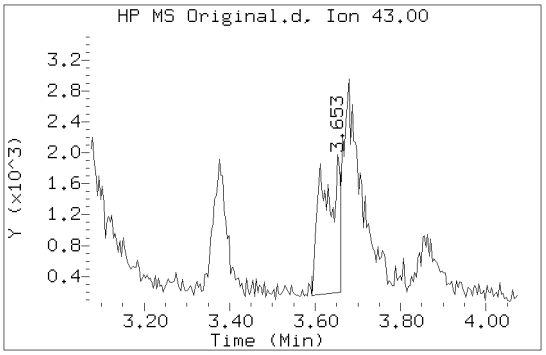
AFTER
MASS
78
AREA
3221
HEIGHT
1865
21-Mar-2023
10:17
linh
pham



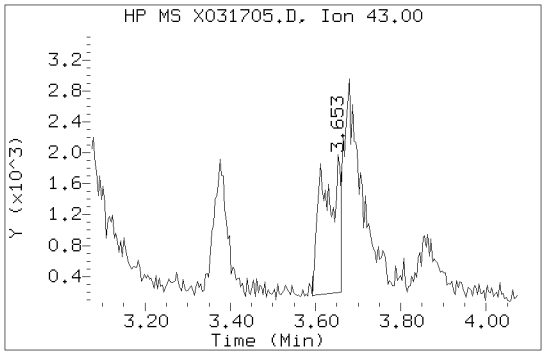
2-Butanone (78-93-3)

Reason Code:

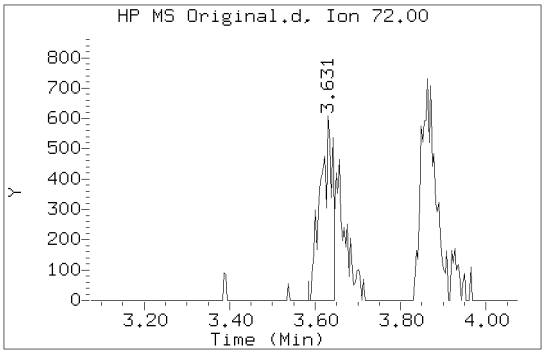
BEFORE
MASS
43
AREA
4883
HEIGHT
1780
21-Mar-2023
10:17
linh
pham



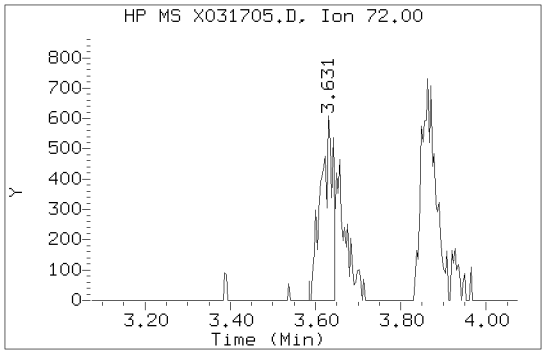
AFTER
MASS
43
AREA
4883
HEIGHT
1780
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
72
AREA
1194
HEIGHT
609
21-Mar-2023
10:17
linh
pham



AFTER
MASS
72
AREA
1194
HEIGHT
609
21-Mar-2023
10:17
linh
pham



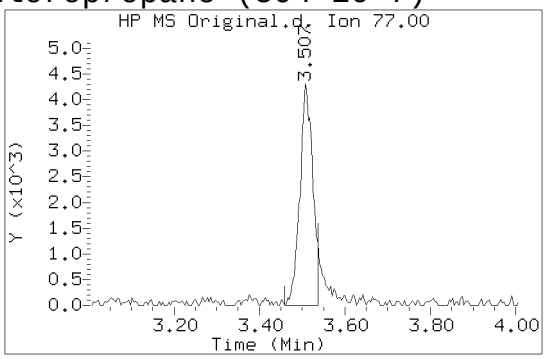
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

2,2-Dichloropropane (594-20-7)

Reason Code:

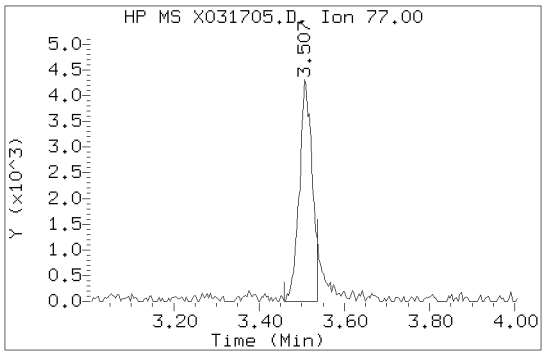
BEFORE

MASS
77
AREA
9195
HEIGHT
4310
21-Mar-2023
10:17
linh
pham



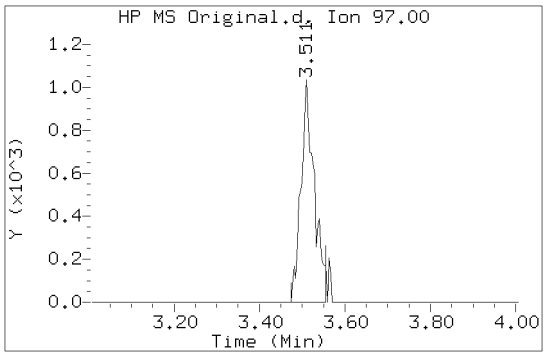
AFTER

MASS
77
AREA
9195
HEIGHT
4310
21-Mar-2023
10:17
linh
pham



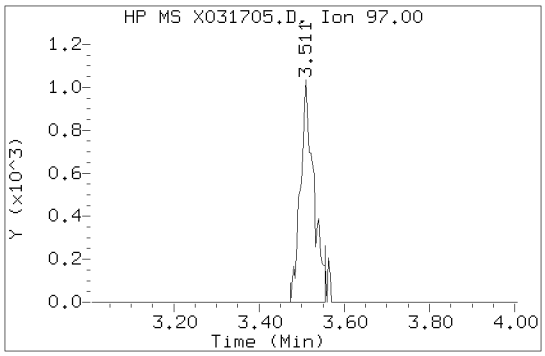
BEFORE

MASS
97
AREA
2276
HEIGHT
1035
21-Mar-2023
10:17
linh
pham



AFTER

MASS
97
AREA
2276
HEIGHT
1035
21-Mar-2023
10:17
linh
pham

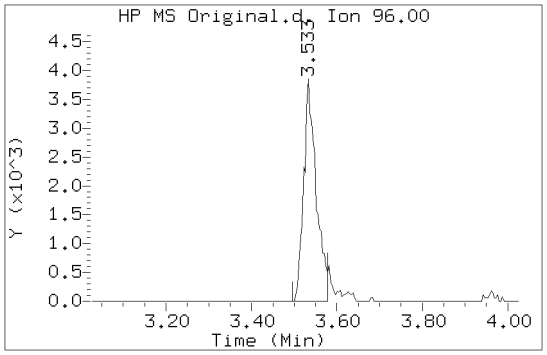


cis-1,2-Dichloroethene (156-59-2)

Reason Code:

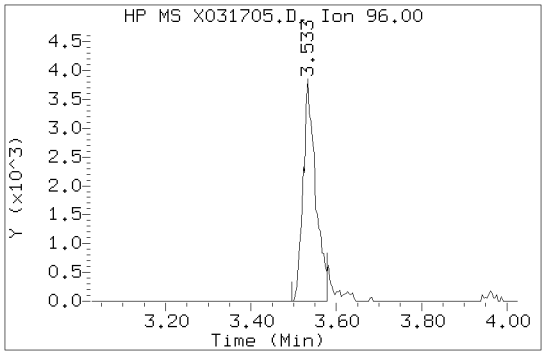
BEFORE

MASS
96
AREA
7938
HEIGHT
3854
21-Mar-2023
10:17
linh
pham



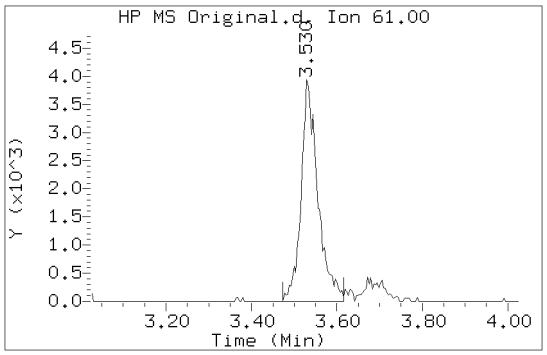
AFTER

MASS
96
AREA
7938
HEIGHT
3854
21-Mar-2023
10:17
linh
pham



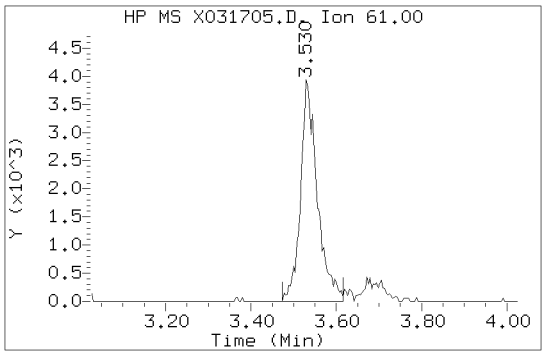
BEFORE

MASS
61
AREA
10862
HEIGHT
3938
21-Mar-2023
10:17
linh
pham



AFTER

MASS
61
AREA
10862
HEIGHT
3938
21-Mar-2023
10:17
linh
pham



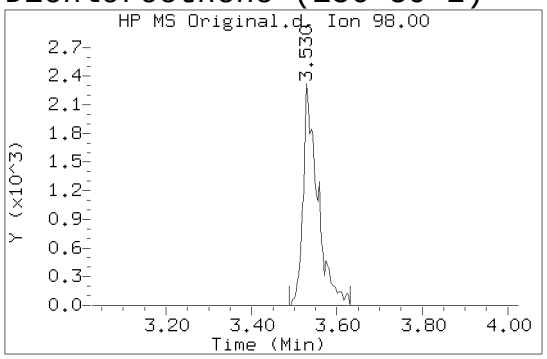
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

cis-1,2-Dichloroethene (156-59-2)

Reason Code:

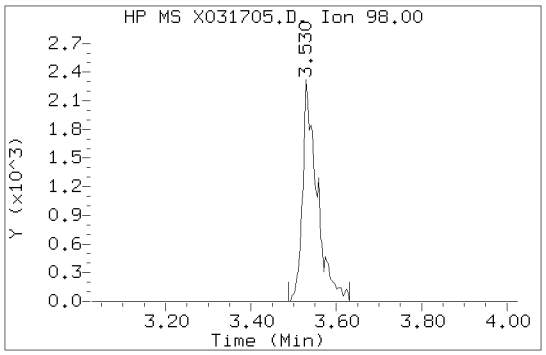
BEFORE

MASS
98
AREA
5559
HEIGHT
2321
21-Mar-2023
10:17
linh
pham



AFTER

MASS
98
AREA
5559
HEIGHT
2321
21-Mar-2023
10:17
linh
pham

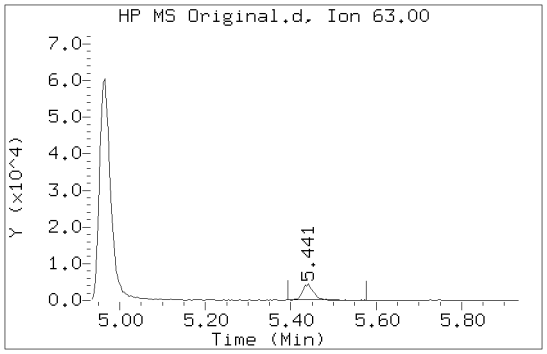


1,2-Dichloropropane (78-87-5)

Reason Code:

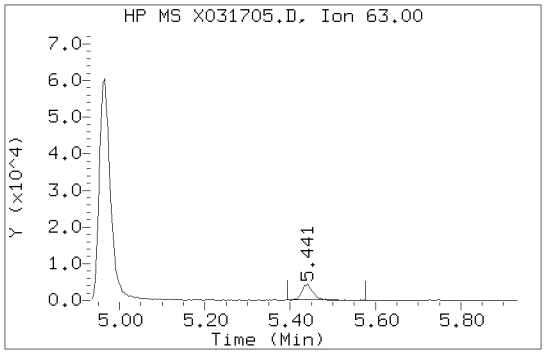
BEFORE

MASS
63
AREA
7975
HEIGHT
4520
21-Mar-2023
10:17
linh
pham



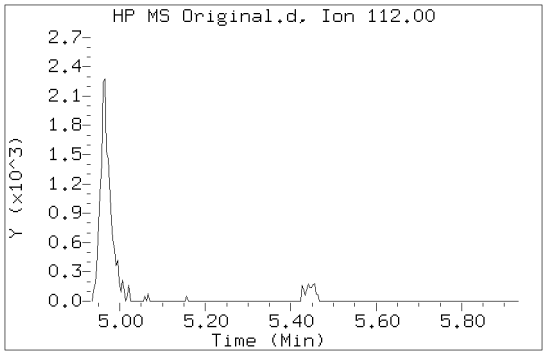
AFTER

MASS
63
AREA
7975
HEIGHT
4520
21-Mar-2023
10:17
linh
pham



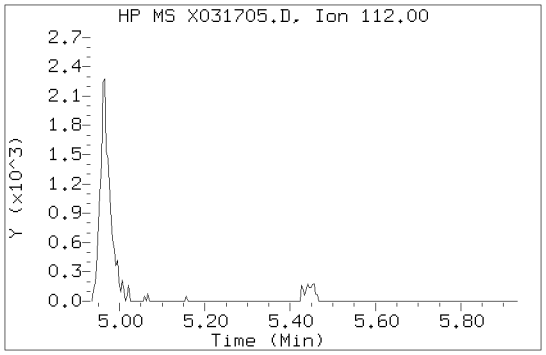
BEFORE

MASS
112
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
112
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

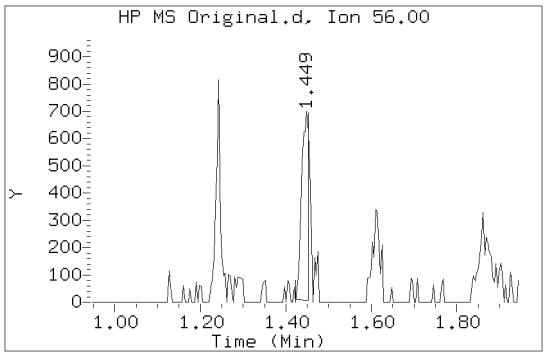


Acrolein (107-02-8)

Reason Code:

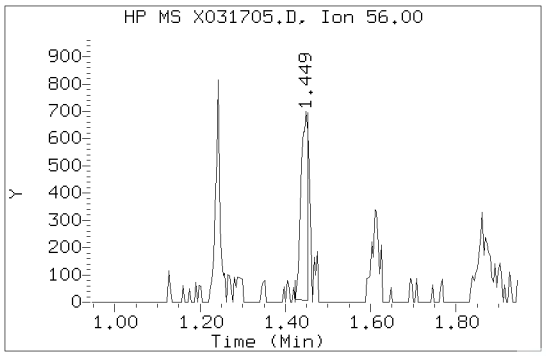
BEFORE

MASS
56
AREA
794
HEIGHT
691
21-Mar-2023
10:17
linh
pham



AFTER

MASS
56
AREA
794
HEIGHT
691
21-Mar-2023
10:17
linh
pham



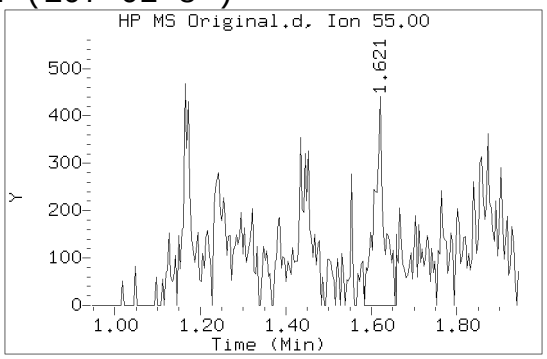
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Acrolein (107-02-8)

Reason Code:

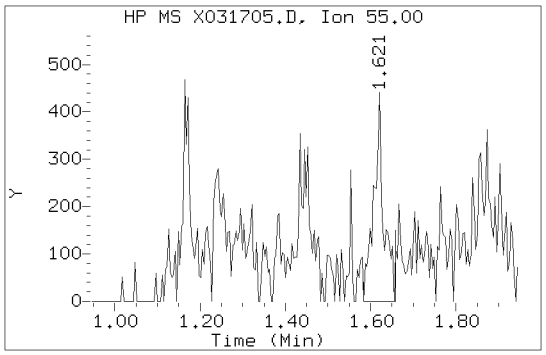
BEFORE

MASS
55
AREA
728
HEIGHT
441
21-Mar-2023
10:17
linh
pham



AFTER

MASS
55
AREA
728
HEIGHT
441
21-Mar-2023
10:17
linh
pham

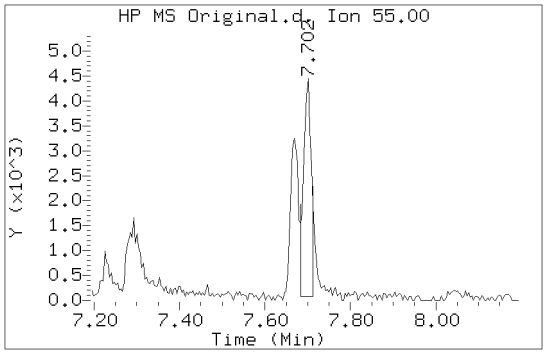


1-Chlorohexane (544-10-5)

Reason Code:

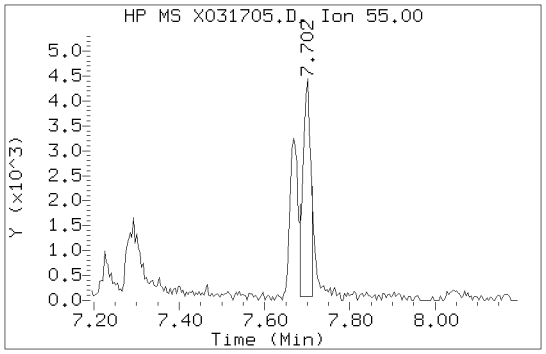
BEFORE

MASS
55
AREA
5763
HEIGHT
4369
21-Mar-2023
10:17
linh
pham



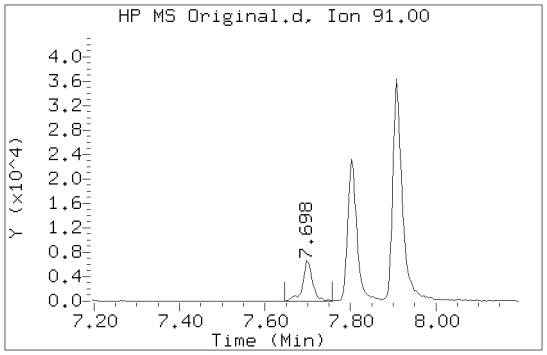
AFTER

MASS
55
AREA
5763
HEIGHT
4369
21-Mar-2023
10:17
linh
pham



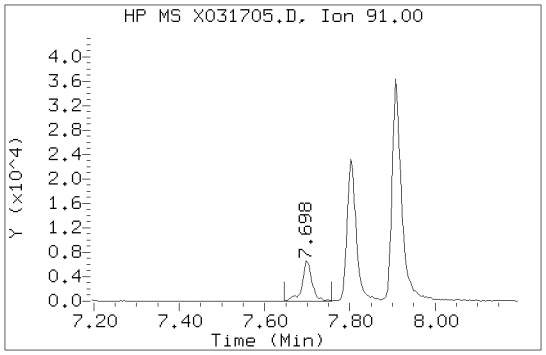
BEFORE

MASS
91
AREA
10956
HEIGHT
6612
21-Mar-2023
10:17
linh
pham



AFTER

MASS
91
AREA
10956
HEIGHT
6612
21-Mar-2023
10:17
linh
pham

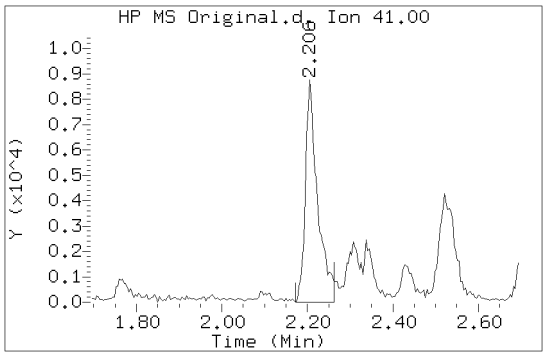


Allyl Chloride (107-05-1)

Reason Code:

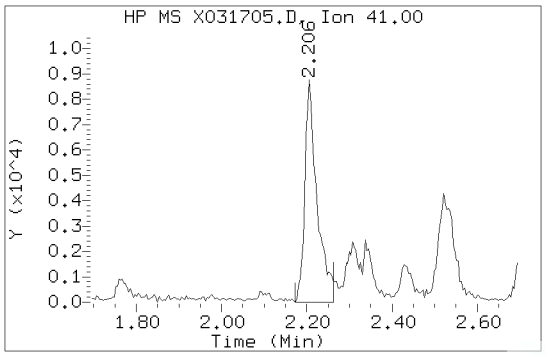
BEFORE

MASS
41
AREA
17508
HEIGHT
8761
21-Mar-2023
10:17
linh
pham



AFTER

MASS
41
AREA
17508
HEIGHT
8761
21-Mar-2023
10:17
linh
pham



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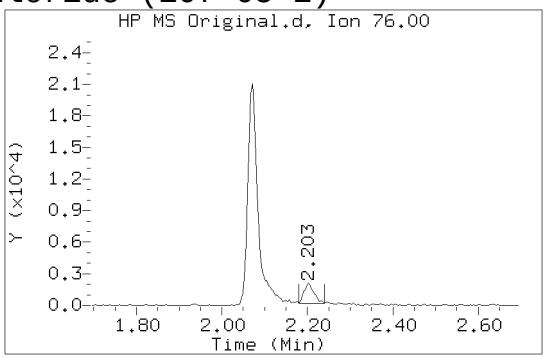
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Allyl Chloride (107-05-1)

Reason Code:

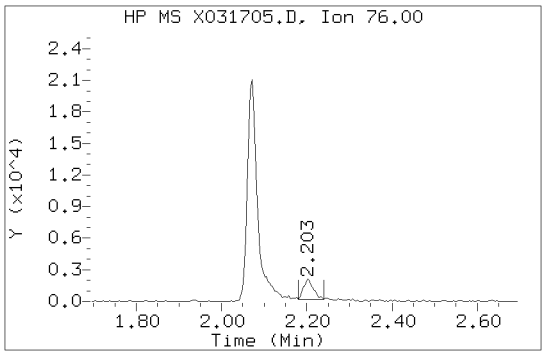
BEFORE

MASS
76
AREA
3083
HEIGHT
1935
21-Mar-2023
10:17
linh
pham



AFTER

MASS
76
AREA
3083
HEIGHT
1935
21-Mar-2023
10:17
linh
pham

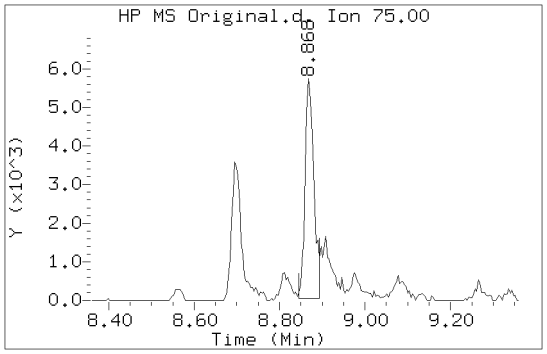


1,2,3-Trichloropropane (96-18-4)

Reason Code:

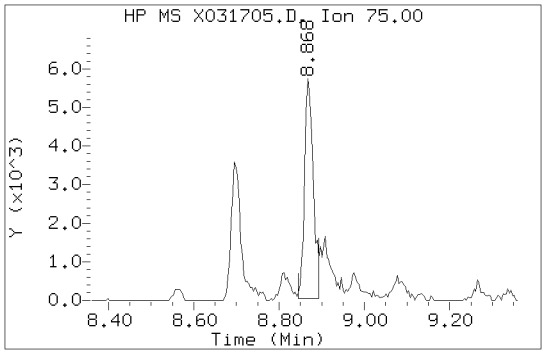
BEFORE

MASS
75
AREA
8328
HEIGHT
5692
21-Mar-2023
10:17
linh
pham



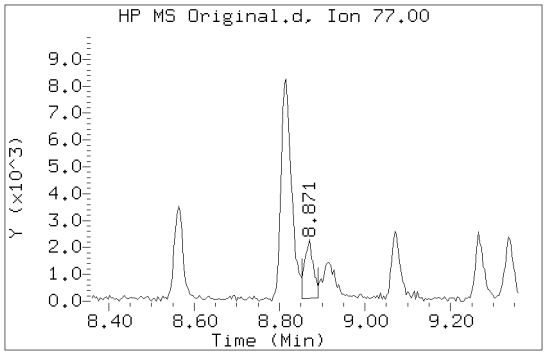
AFTER

MASS
75
AREA
8328
HEIGHT
5692
21-Mar-2023
10:17
linh
pham



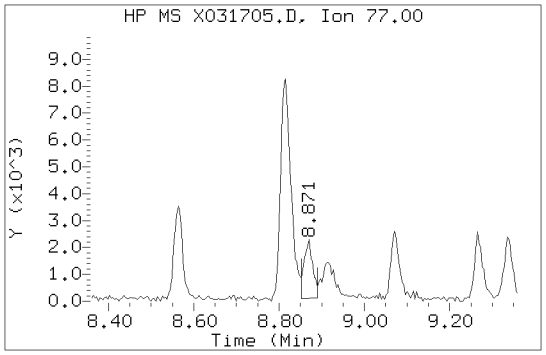
BEFORE

MASS
77
AREA
3185
HEIGHT
2179
21-Mar-2023
10:17
linh
pham



AFTER

MASS
77
AREA
3185
HEIGHT
2179
21-Mar-2023
10:17
linh
pham

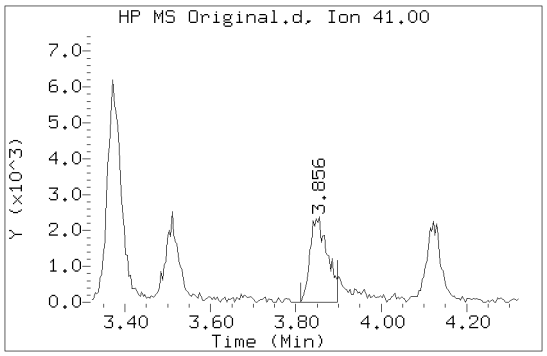


Methacrylonitrile (126-98-7)

Reason Code:

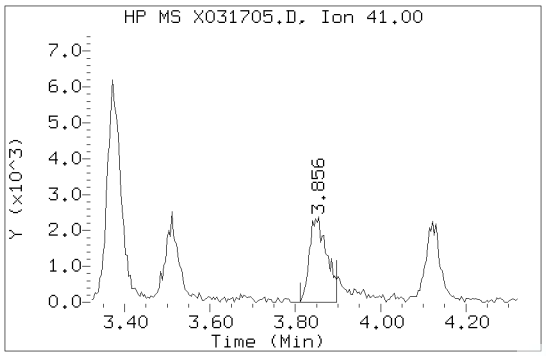
BEFORE

MASS
41
AREA
6754
HEIGHT
2390
21-Mar-2023
10:17
linh
pham



AFTER

MASS
41
AREA
6754
HEIGHT
2390
21-Mar-2023
10:17
linh
pham



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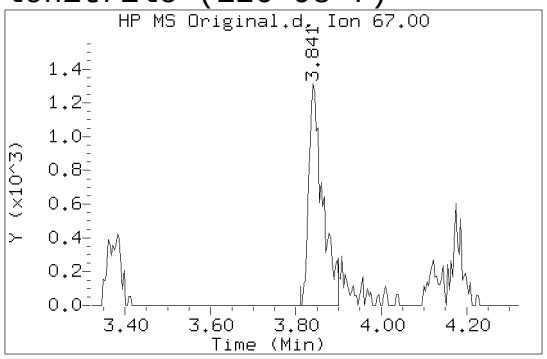
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

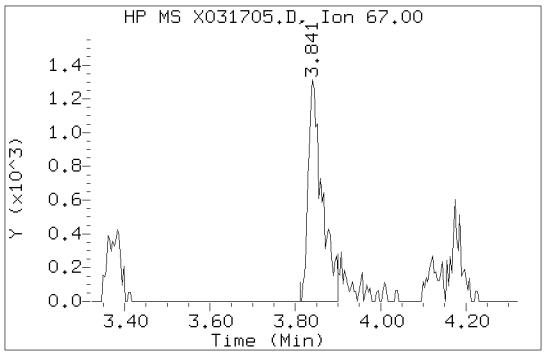
Methacrylonitrile (126-98-7)

Reason Code:

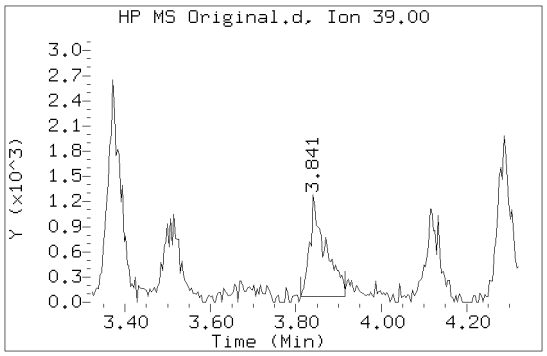
BEFORE
MASS
67
AREA
2973
HEIGHT
1314
21-Mar-2023
10:17
linh
pham



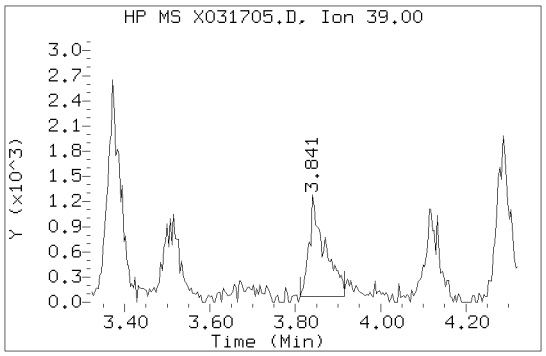
AFTER
MASS
67
AREA
2973
HEIGHT
1314
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
39
AREA
3073
HEIGHT
1215
21-Mar-2023
10:17
linh
pham



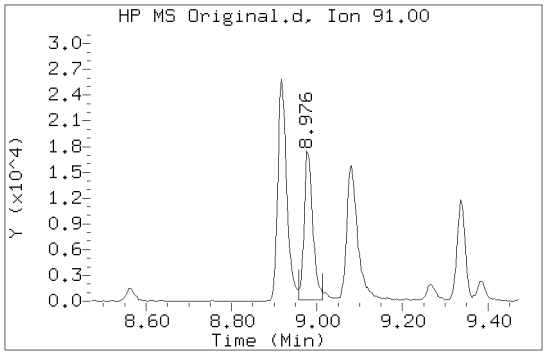
AFTER
MASS
39
AREA
3073
HEIGHT
1215
21-Mar-2023
10:17
linh
pham



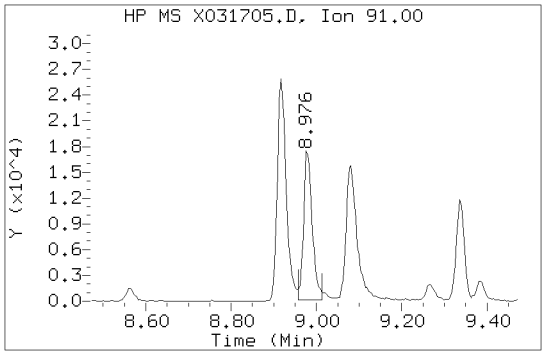
2-Chlorotoluene (95-49-8)

Reason Code:

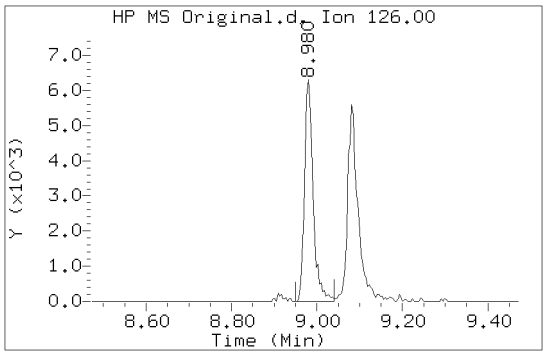
BEFORE
MASS
91
AREA
25156
HEIGHT
17363
21-Mar-2023
10:17
linh
pham



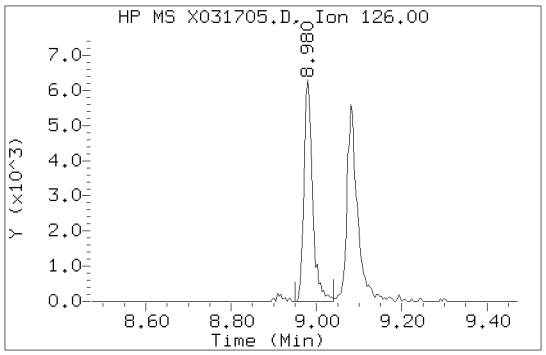
AFTER
MASS
91
AREA
25156
HEIGHT
17363
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
126
AREA
9054
HEIGHT
6306
21-Mar-2023
10:17
linh
pham



AFTER
MASS
126
AREA
9054
HEIGHT
6306
21-Mar-2023
10:17
linh
pham



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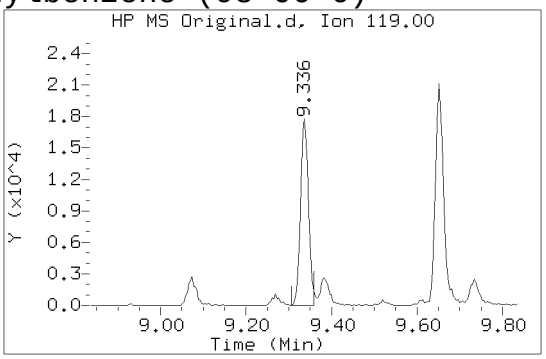
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

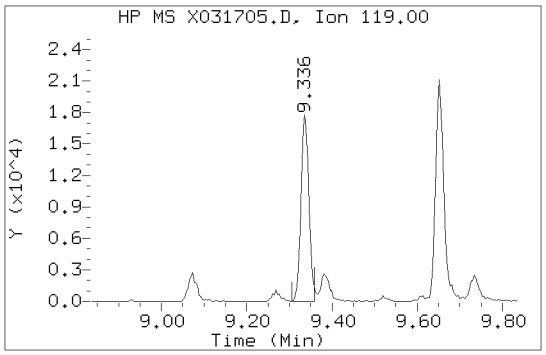
tert-Butylbenzene (98-06-6)

Reason Code:

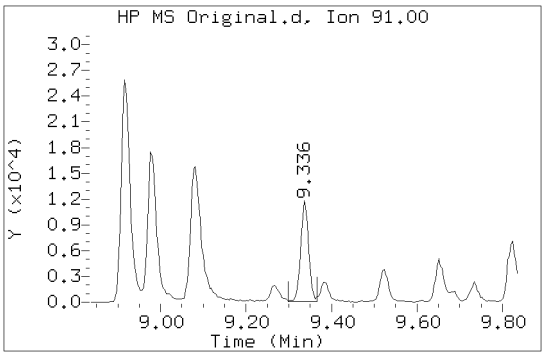
BEFORE
MASS
119
AREA
23670
HEIGHT
17752
21-Mar-2023
10:17
linh
pham



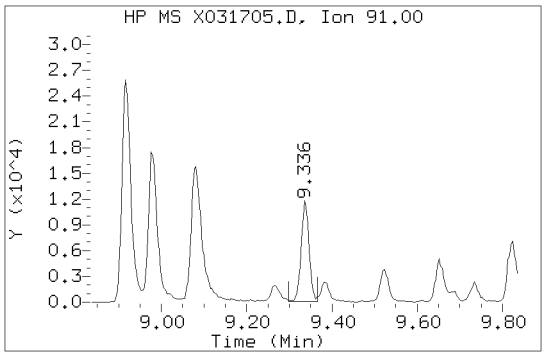
AFTER
MASS
119
AREA
23670
HEIGHT
17752
21-Mar-2023
10:17
linh
pham



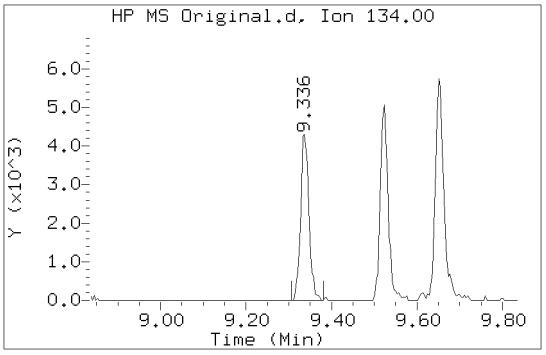
BEFORE
MASS
91
AREA
15633
HEIGHT
11777
21-Mar-2023
10:17
linh
pham



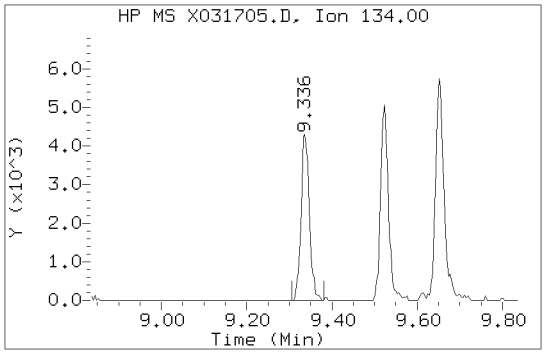
AFTER
MASS
91
AREA
15633
HEIGHT
11777
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
134
AREA
6015
HEIGHT
4311
21-Mar-2023
10:17
linh
pham



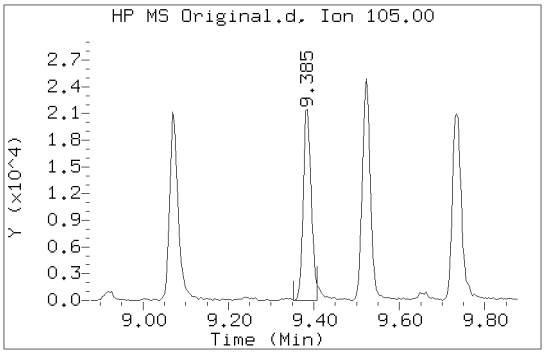
AFTER
MASS
134
AREA
6015
HEIGHT
4311
21-Mar-2023
10:17
linh
pham



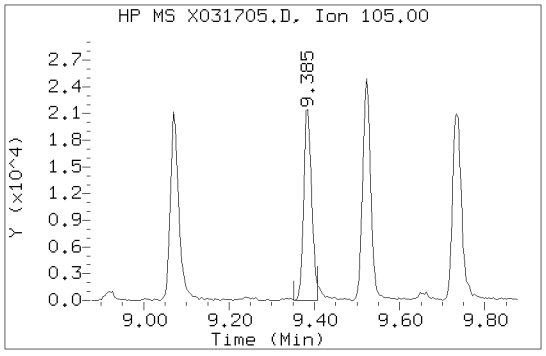
1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

BEFORE
MASS
105
AREA
28719
HEIGHT
21448
21-Mar-2023
10:17
linh
pham



AFTER
MASS
105
AREA
28719
HEIGHT
21448
21-Mar-2023
10:17
linh
pham



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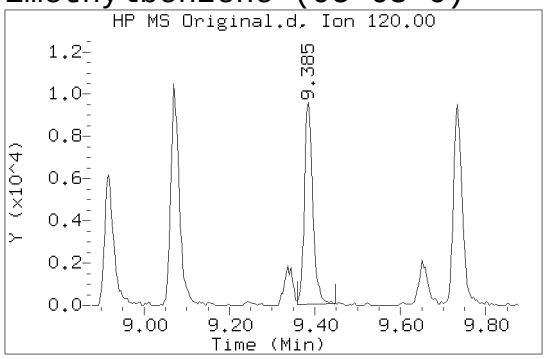
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

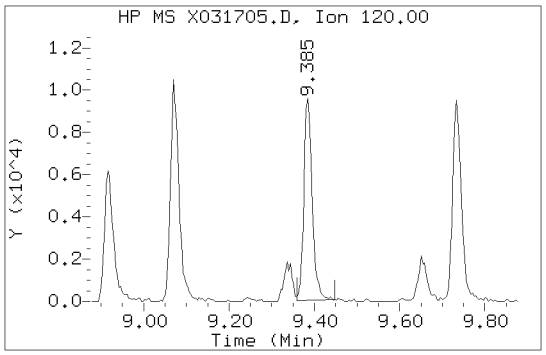
BEFORE

MASS
120
AREA
13357
HEIGHT
9568
21-Mar-2023
10:17
linh
pham



AFTER

MASS
120
AREA
13357
HEIGHT
9568
21-Mar-2023
10:17
linh
pham

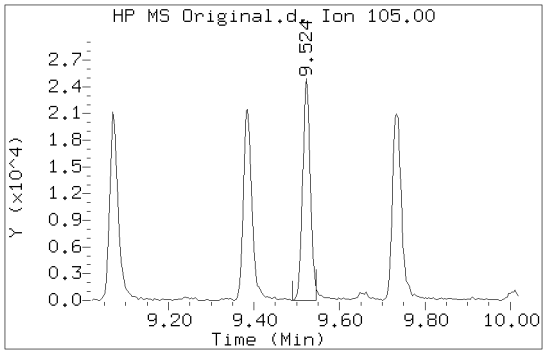


sec-Butylbenzene (135-98-8)

Reason Code:

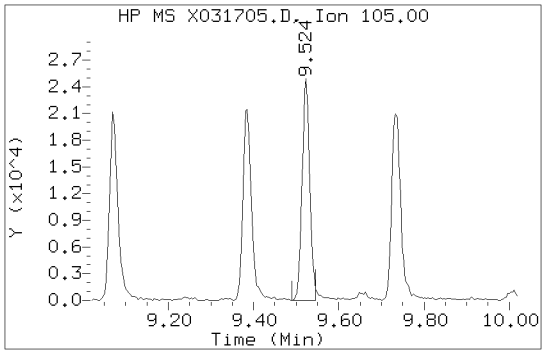
BEFORE

MASS
105
AREA
32067
HEIGHT
24912
21-Mar-2023
10:17
linh
pham



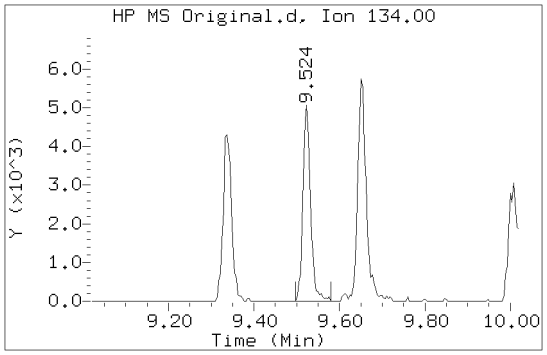
AFTER

MASS
105
AREA
32067
HEIGHT
24912
21-Mar-2023
10:17
linh
pham



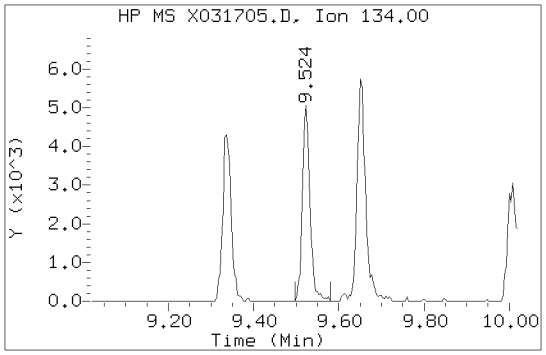
BEFORE

MASS
134
AREA
6514
HEIGHT
5072
21-Mar-2023
10:17
linh
pham



AFTER

MASS
134
AREA
6514
HEIGHT
5072
21-Mar-2023
10:17
linh
pham

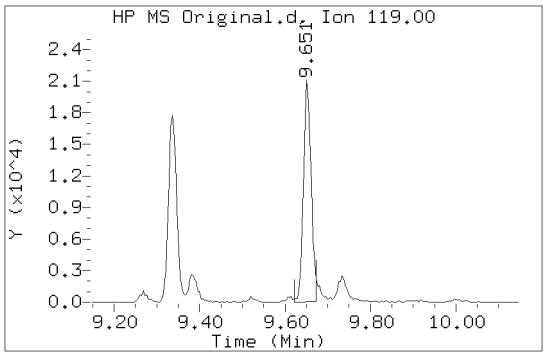


p-Isopropyltoluene (99-87-6)

Reason Code:

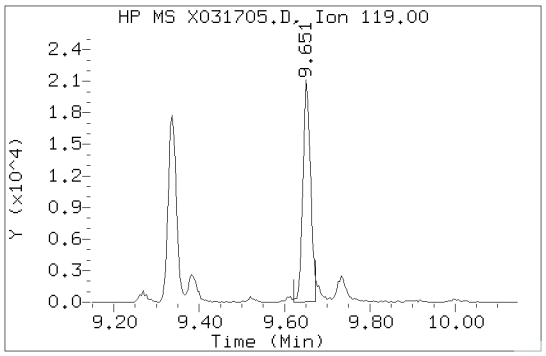
BEFORE

MASS
119
AREA
27213
HEIGHT
21087
21-Mar-2023
10:17
linh
pham



AFTER

MASS
119
AREA
27213
HEIGHT
21087
21-Mar-2023
10:17
linh
pham

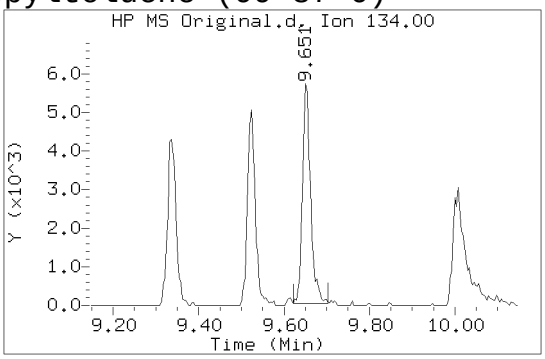


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

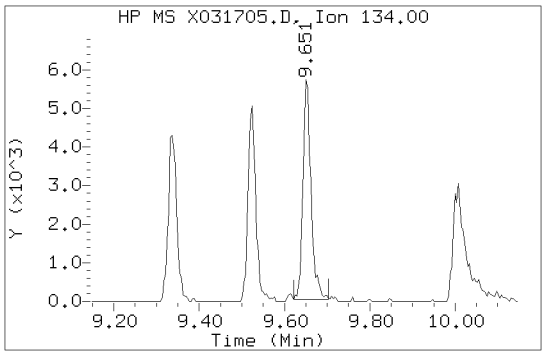
p-Isopropyltoluene (99-87-6)

Reason Code:

BEFORE
MASS
134
AREA
7684
HEIGHT
5691
21-Mar-2023
10:17
linh
pham



AFTER
MASS
134
AREA
7684
HEIGHT
5691
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
91
AREA
6592
HEIGHT
5018
21-Mar-2023
10:17
linh
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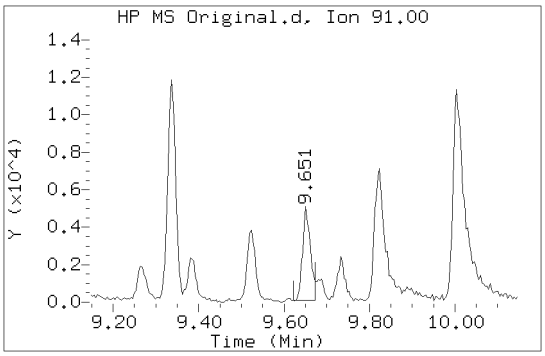
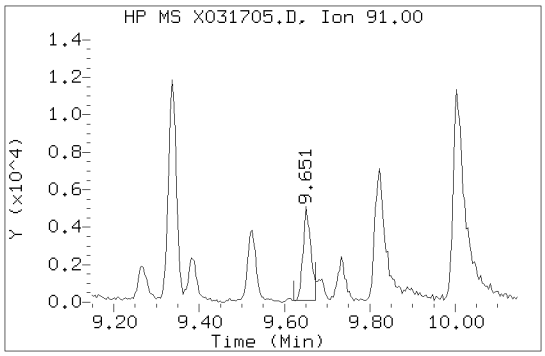


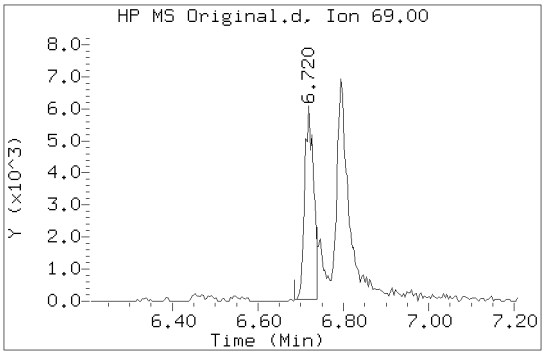
AFTER
MASS
91
AREA
6592
HEIGHT
5018
21-Mar-2023
10:17
linh
pham



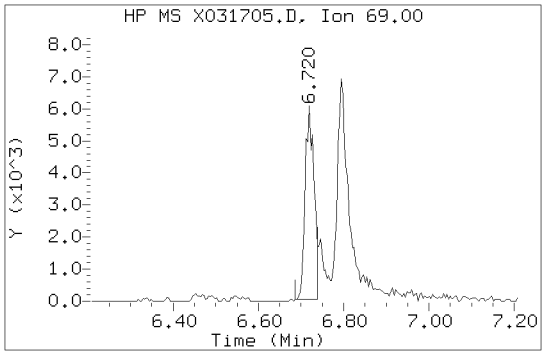
Ethyl Methacrylate (97-63-2)

Reason Code:

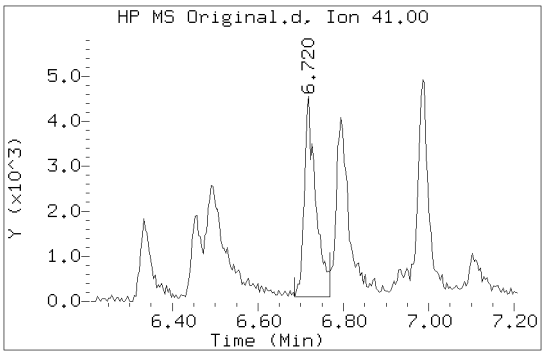
BEFORE
MASS
69
AREA
8792
HEIGHT
6028
21-Mar-2023
10:17
linh
pham



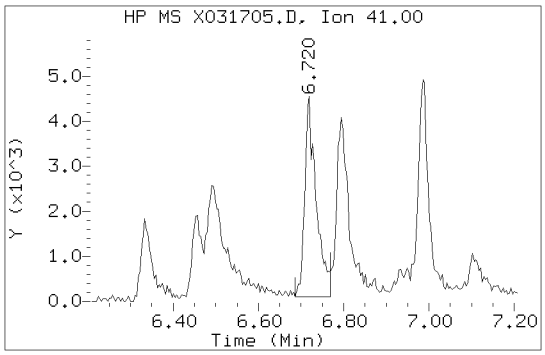
AFTER
MASS
69
AREA
8792
HEIGHT
6028
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
41
AREA
8401
HEIGHT
4455
21-Mar-2023
10:17
linh
pham



AFTER
MASS
41
AREA
8401
HEIGHT
4455
21-Mar-2023
10:17
linh
pham



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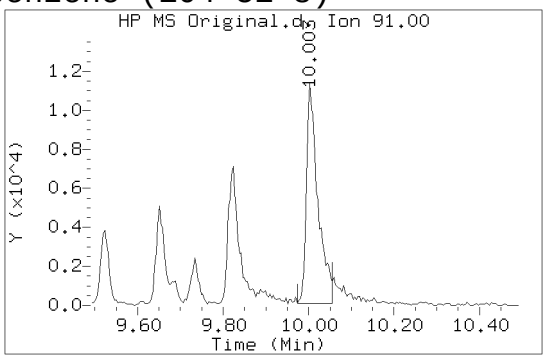
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

n-Butylbenzene (104-51-8)

Reason Code:

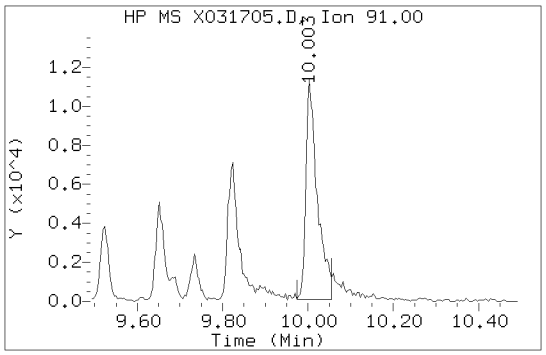
BEFORE

MASS
91
AREA
21203
HEIGHT
11276
21-Mar-2023
10:17
linh
pham



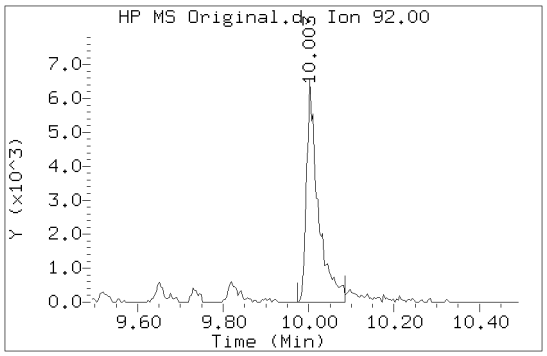
AFTER

MASS
91
AREA
21203
HEIGHT
11276
21-Mar-2023
10:17
linh
pham



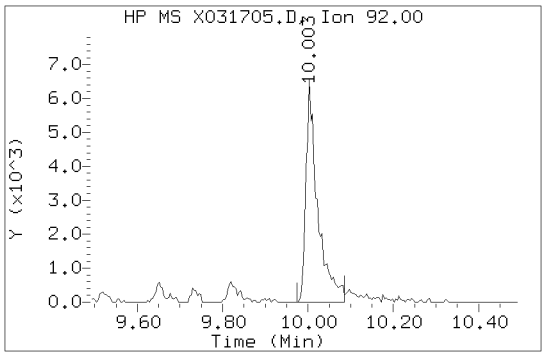
BEFORE

MASS
92
AREA
12533
HEIGHT
6547
21-Mar-2023
10:17
linh
pham



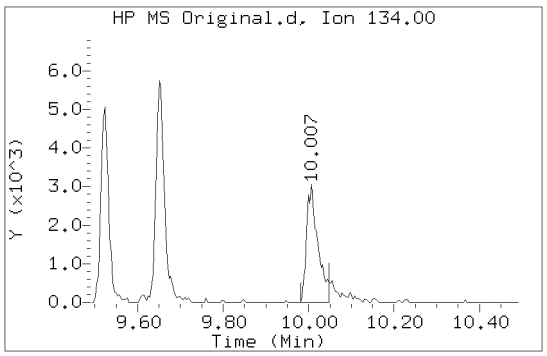
AFTER

MASS
92
AREA
12533
HEIGHT
6547
21-Mar-2023
10:17
linh
pham



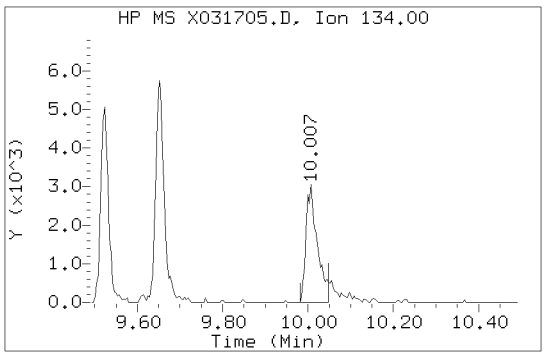
BEFORE

MASS
134
AREA
5667
HEIGHT
3050
21-Mar-2023
10:17
linh
pham



AFTER

MASS
134
AREA
5667
HEIGHT
3050
21-Mar-2023
10:17
linh
pham

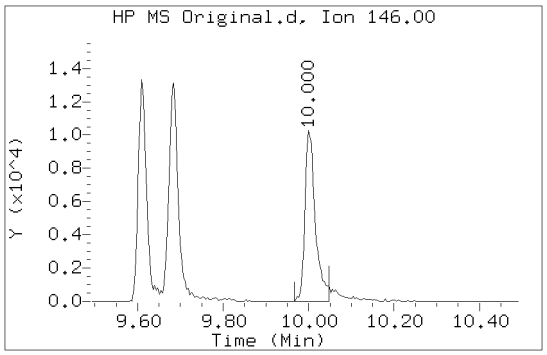


1,2-Dichlorobenzene (95-50-1)

Reason Code:

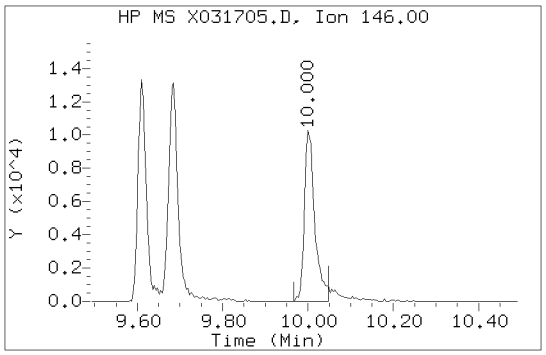
BEFORE

MASS
146
AREA
17795
HEIGHT
10274
21-Mar-2023
10:17
linh
pham



AFTER

MASS
146
AREA
17795
HEIGHT
10274
21-Mar-2023
10:17
linh
pham



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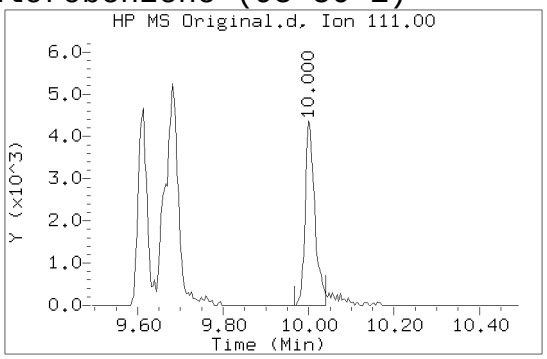
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

1,2-Dichlorobenzene (95-50-1)

Reason Code:

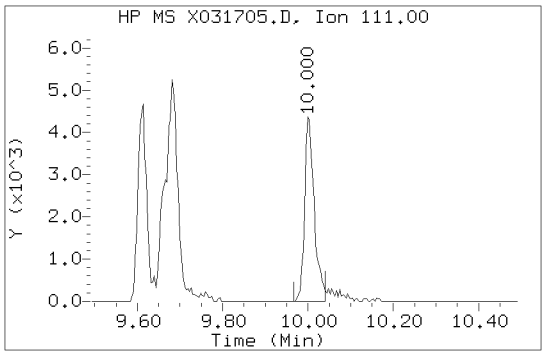
BEFORE

MASS
111
AREA
6944
HEIGHT
4376
21-Mar-2023
10:17
linh
pham



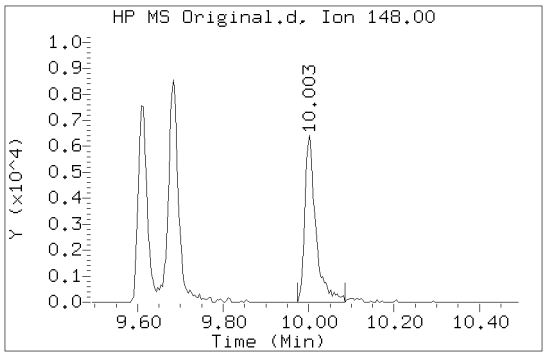
AFTER

MASS
111
AREA
6944
HEIGHT
4376
21-Mar-2023
10:17
linh
pham



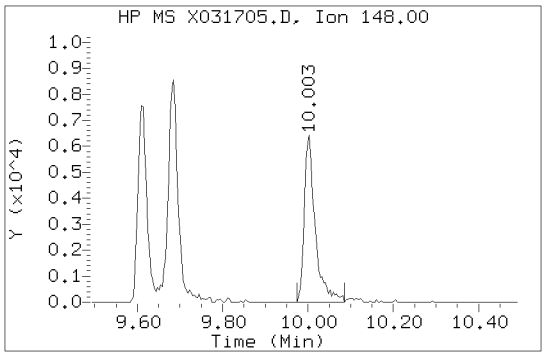
BEFORE

MASS
148
AREA
11682
HEIGHT
6424
21-Mar-2023
10:17
linh
pham



AFTER

MASS
148
AREA
11682
HEIGHT
6424
21-Mar-2023
10:17
linh
pham

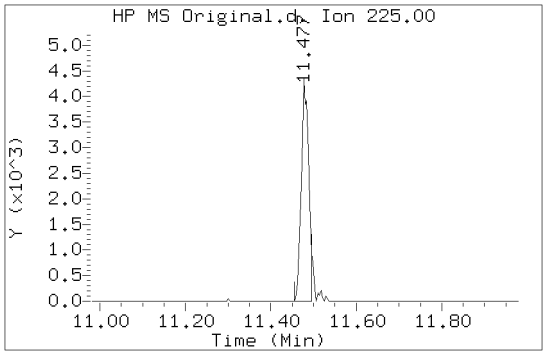


Hexachlorobutadiene (87-68-3)

Reason Code:

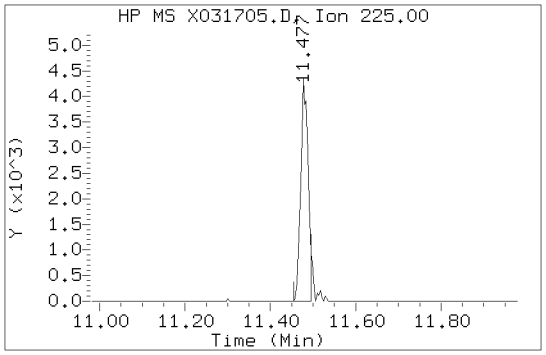
BEFORE

MASS
225
AREA
5380
HEIGHT
4343
21-Mar-2023
10:17
linh
pham



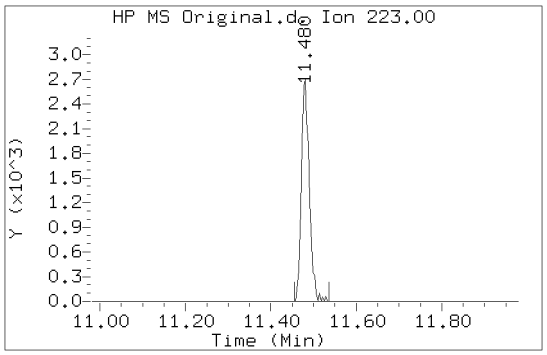
AFTER

MASS
225
AREA
5380
HEIGHT
4343
21-Mar-2023
10:17
linh
pham



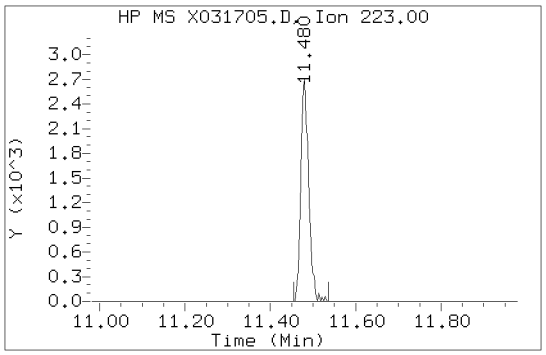
BEFORE

MASS
223
AREA
3589
HEIGHT
2696
21-Mar-2023
10:17
linh
pham



AFTER

MASS
223
AREA
3589
HEIGHT
2696
21-Mar-2023
10:17
linh
pham



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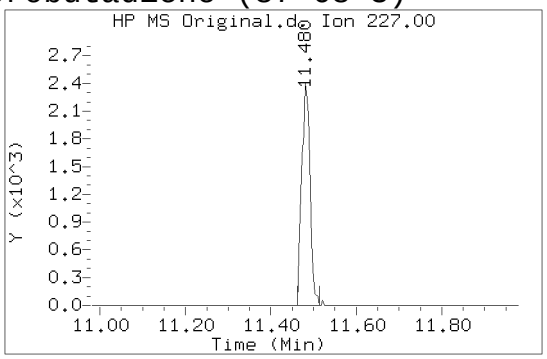
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Hexachlorobutadiene (87-68-3)

Reason Code:

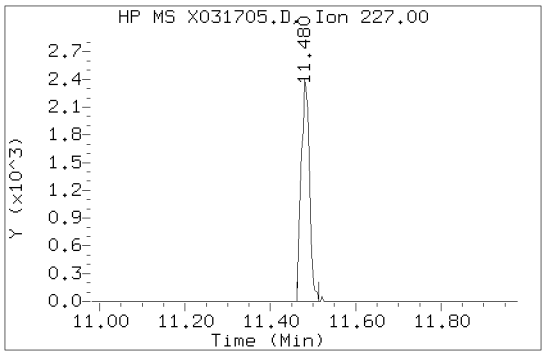
BEFORE

MASS
227
AREA
3365
HEIGHT
2397
21-Mar-2023
10:17
linh
pham



AFTER

MASS
227
AREA
3365
HEIGHT
2397
21-Mar-2023
10:17
linh
pham

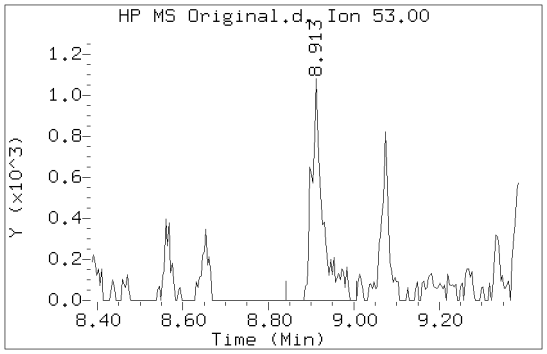


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

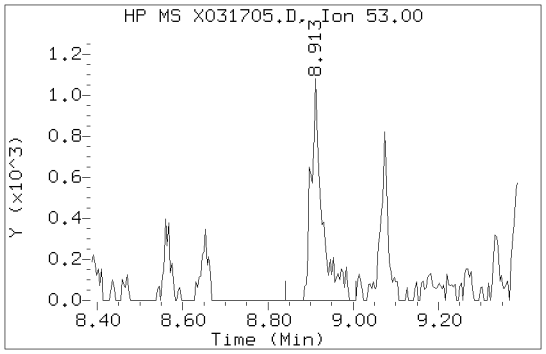
BEFORE

MASS
53
AREA
1998
HEIGHT
1081
21-Mar-2023
10:17
linh
pham



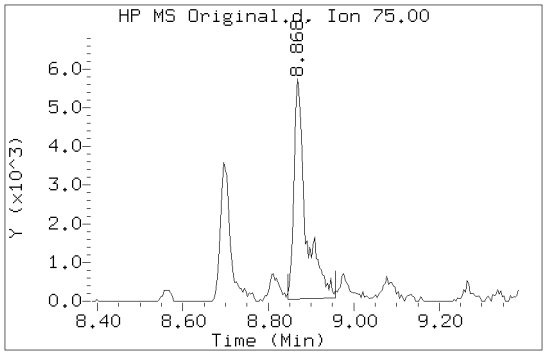
AFTER

MASS
53
AREA
1998
HEIGHT
1081
21-Mar-2023
10:17
linh
pham



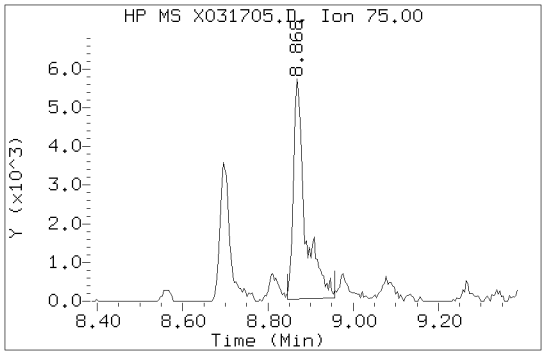
BEFORE

MASS
75
AREA
11042
HEIGHT
5692
21-Mar-2023
10:17
linh
pham



AFTER

MASS
75
AREA
11042
HEIGHT
5692
21-Mar-2023
10:17
linh
pham

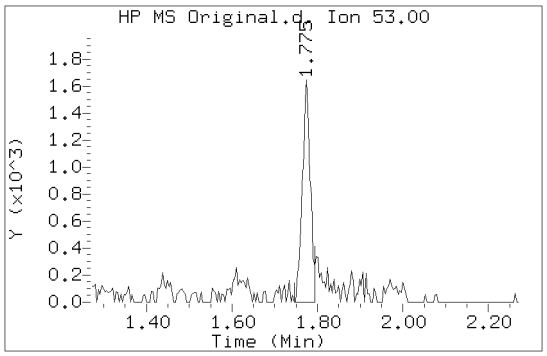


Chloroprene (126-99-8)

Reason Code:

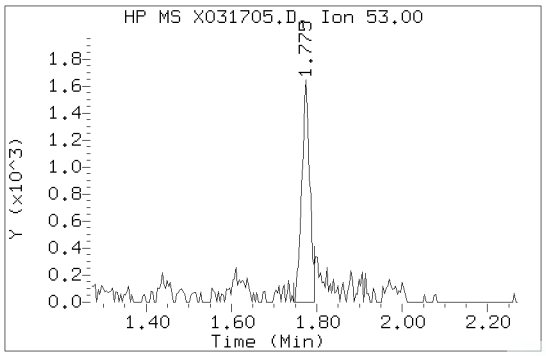
BEFORE

MASS
53
AREA
2193
HEIGHT
1645
21-Mar-2023
10:17
linh
pham



AFTER

MASS
53
AREA
2193
HEIGHT
1645
21-Mar-2023
10:17
linh
pham



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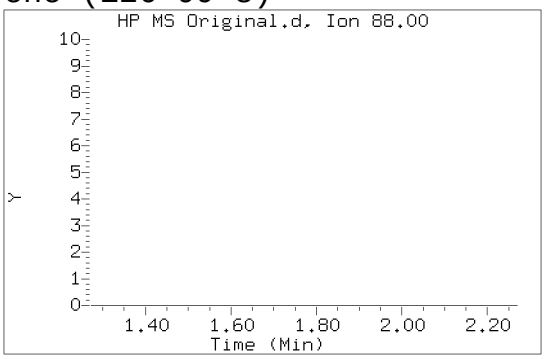
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Chloroprene (126-99-8)

Reason Code:

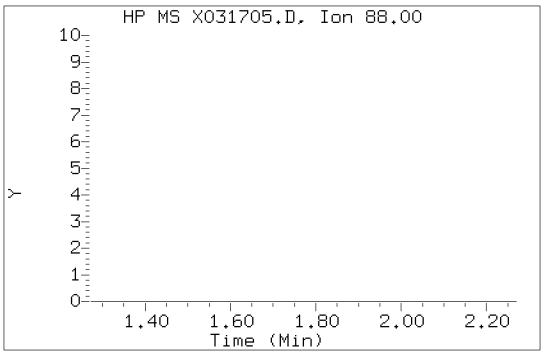
BEFORE

MASS
88
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

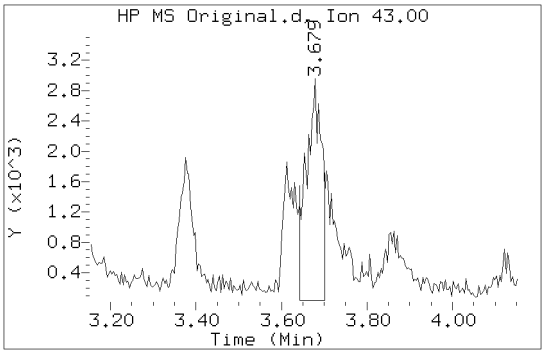


Ethyl Acetate (141-78-6)

Reason Code:

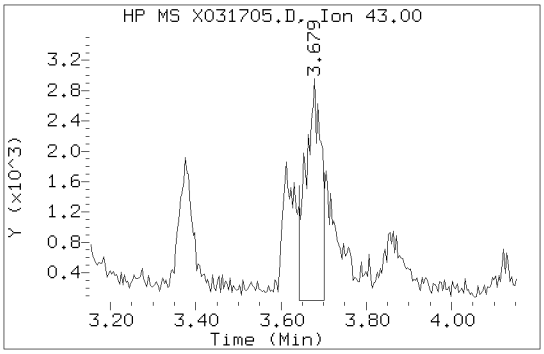
BEFORE

MASS
43
AREA
7453
HEIGHT
2920
21-Mar-2023
10:17
linh
pham



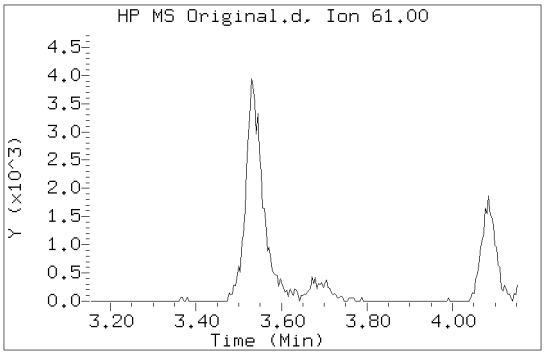
AFTER

MASS
43
AREA
7453
HEIGHT
2920
21-Mar-2023
10:17
linh
pham



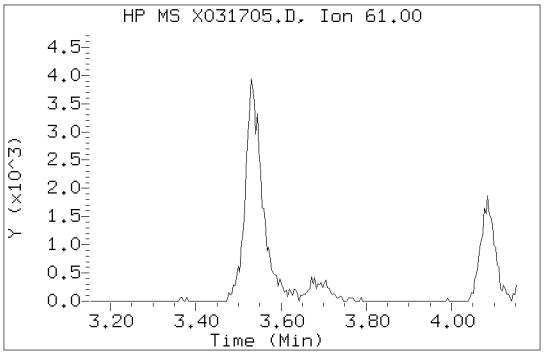
BEFORE

MASS
61
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



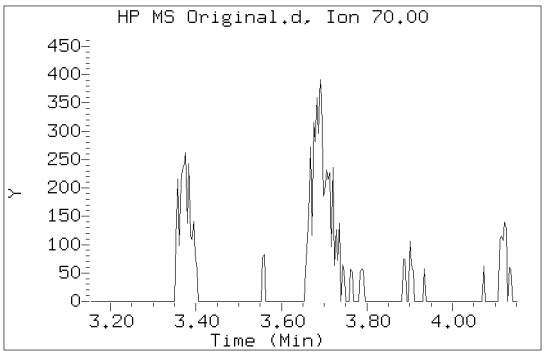
AFTER

MASS
61
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



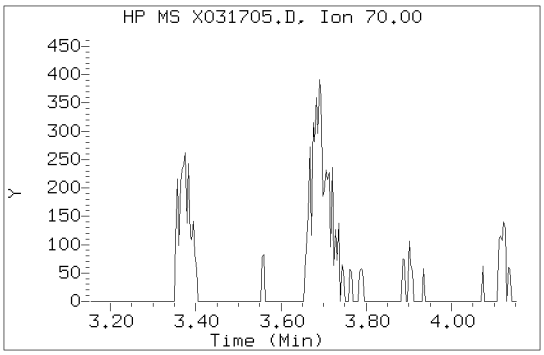
BEFORE

MASS
70
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
70
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



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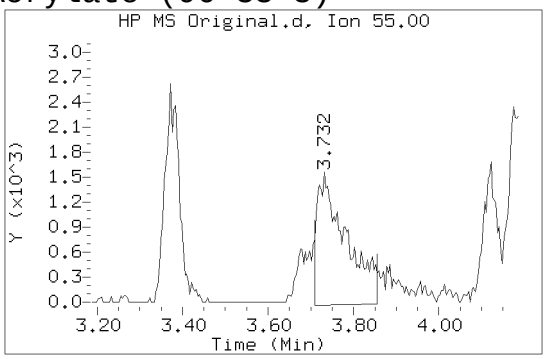
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Methyl Acrylate (96-33-3)

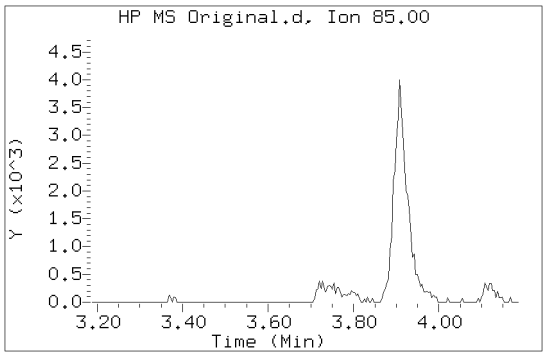
BEFORE

MASS
55
AREA
7555
HEIGHT
1599
21-Mar-2023
10:17
linh
pham



BEFORE

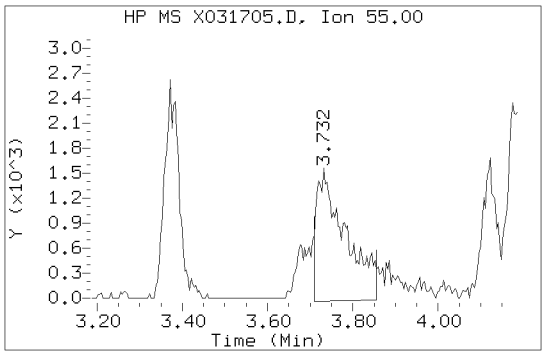
MASS
85
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



Reason Code:

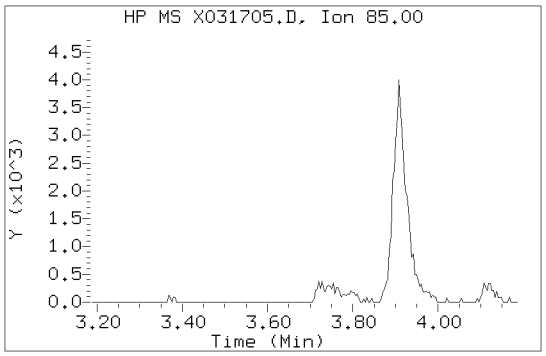
AFTER

MASS
55
AREA
7555
HEIGHT
1599
21-Mar-2023
10:17
linh
pham



AFTER

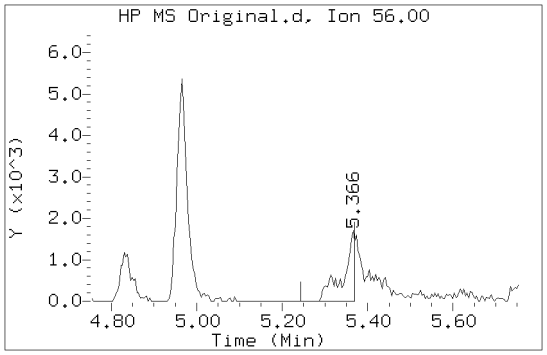
MASS
85
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



n-Butanol (71-36-3)

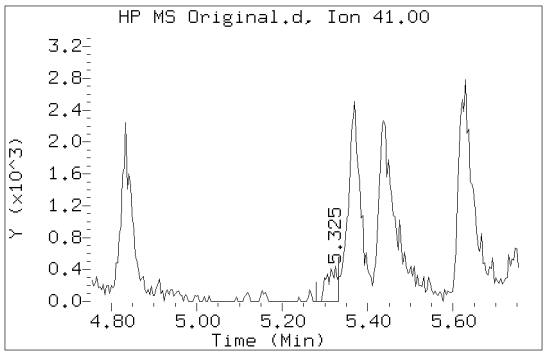
BEFORE

MASS
56
AREA
3165
HEIGHT
1712
21-Mar-2023
10:17
linh
pham



BEFORE

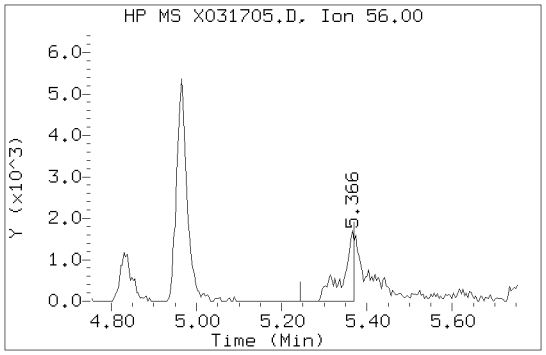
MASS
41
AREA
742
HEIGHT
439
21-Mar-2023
10:17
linh
pham



Reason Code:

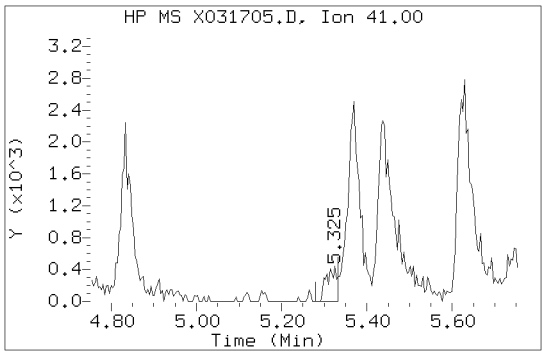
AFTER

MASS
56
AREA
3165
HEIGHT
1712
21-Mar-2023
10:17
linh
pham



AFTER

MASS
41
AREA
742
HEIGHT
439
21-Mar-2023
10:17
linh
pham



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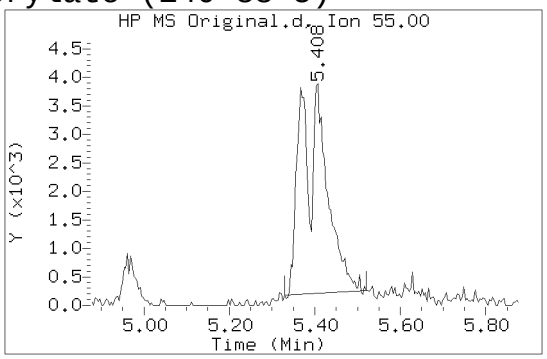
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Ethyl Acrylate (140-88-5)

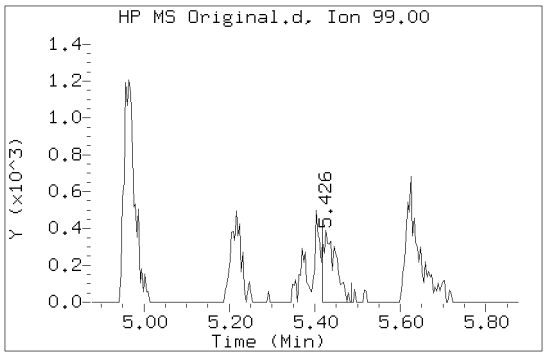
BEFORE

MASS
55
AREA
15497
HEIGHT
3674
21-Mar-2023
10:17
linh
pham



BEFORE

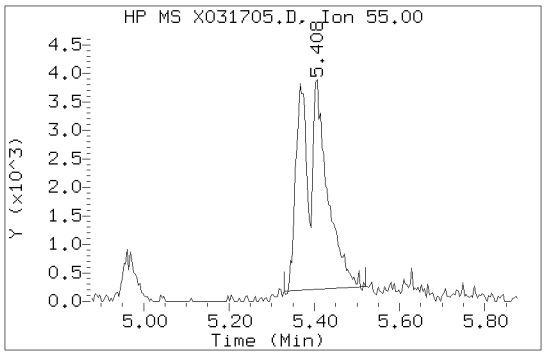
MASS
99
AREA
787
HEIGHT
391
21-Mar-2023
10:17
linh
pham



Reason Code:

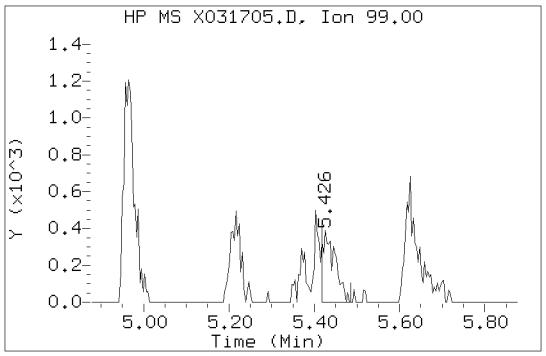
AFTER

MASS
55
AREA
15497
HEIGHT
3674
21-Mar-2023
10:17
linh
pham



AFTER

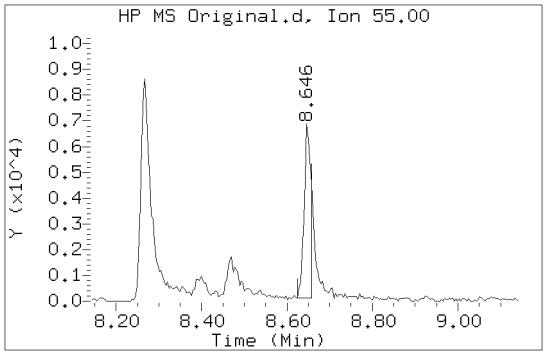
MASS
99
AREA
787
HEIGHT
391
21-Mar-2023
10:17
linh
pham



Cyclohexanone (108-94-1)

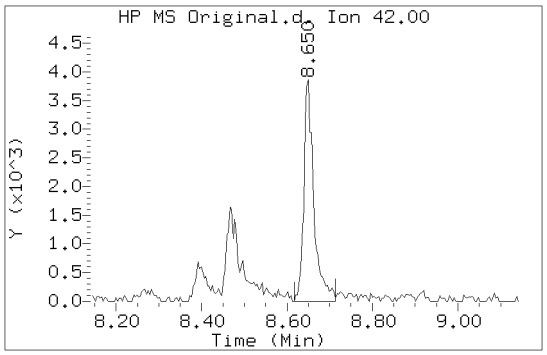
BEFORE

MASS
55
AREA
7426
HEIGHT
6746
21-Mar-2023
10:17
linh
pham



BEFORE

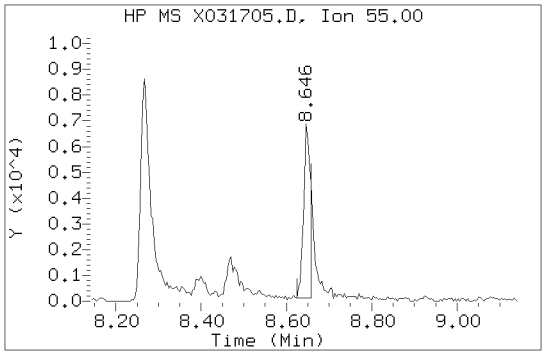
MASS
42
AREA
6426
HEIGHT
3864
21-Mar-2023
10:17
linh
pham



Reason Code:

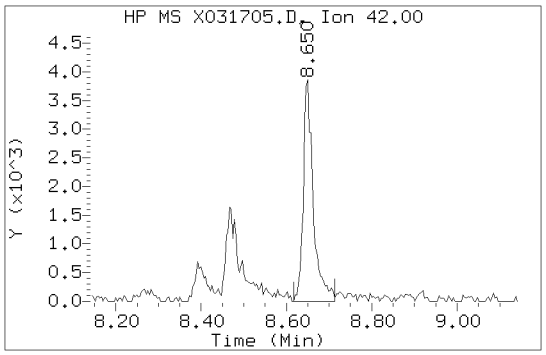
AFTER

MASS
55
AREA
7426
HEIGHT
6746
21-Mar-2023
10:17
linh
pham



AFTER

MASS
42
AREA
6426
HEIGHT
3864
21-Mar-2023
10:17
linh
pham



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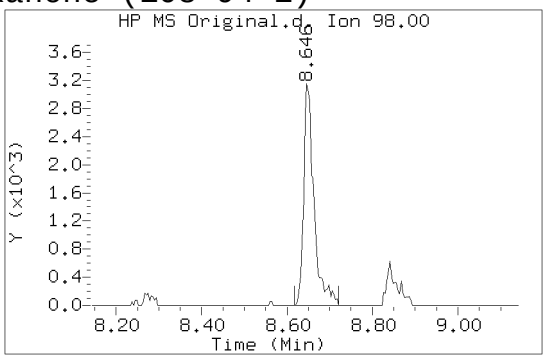
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Cyclohexanone (108-94-1)

Reason Code:

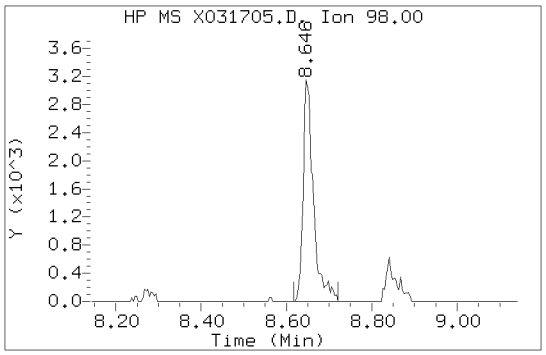
BEFORE

MASS
98
AREA
5390
HEIGHT
3154
21-Mar-2023
10:17
linh
pham



AFTER

MASS
98
AREA
5390
HEIGHT
3154
21-Mar-2023
10:17
linh
pham

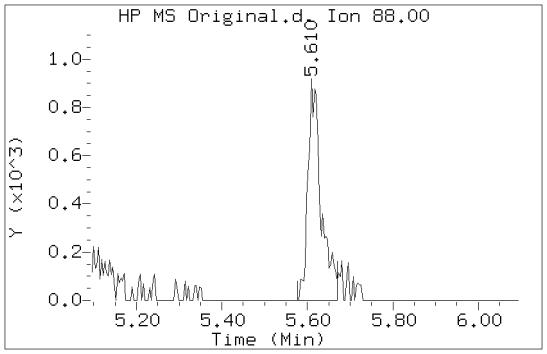


1,4-Dioxane ()

Reason Code:

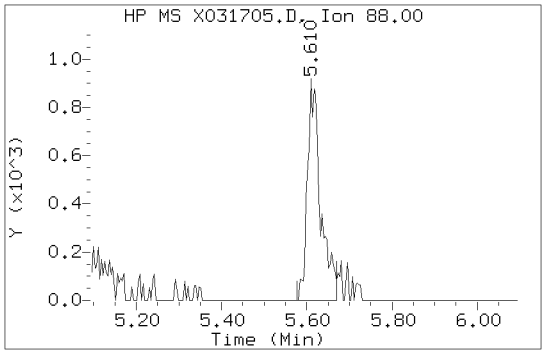
BEFORE

MASS
88
AREA
1966
HEIGHT
919
21-Mar-2023
10:17
linh
pham



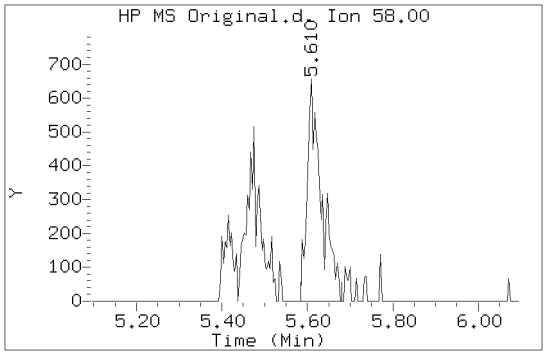
AFTER

MASS
88
AREA
1966
HEIGHT
919
21-Mar-2023
10:17
linh
pham



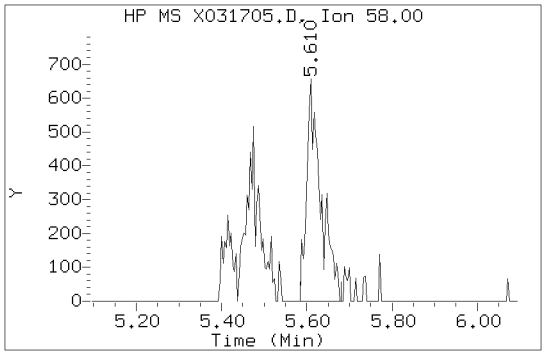
BEFORE

MASS
58
AREA
1530
HEIGHT
657
21-Mar-2023
10:17
linh
pham



AFTER

MASS
58
AREA
1530
HEIGHT
657
21-Mar-2023
10:17
linh
pham

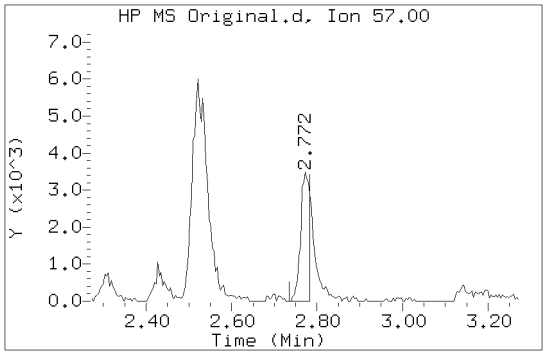


n-Hexane (110-54-3)

Reason Code:

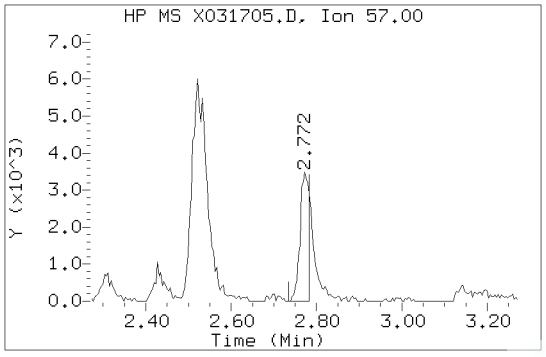
BEFORE

MASS
57
AREA
5204
HEIGHT
3483
21-Mar-2023
10:17
linh
pham



AFTER

MASS
57
AREA
5204
HEIGHT
3483
21-Mar-2023
10:17
linh
pham



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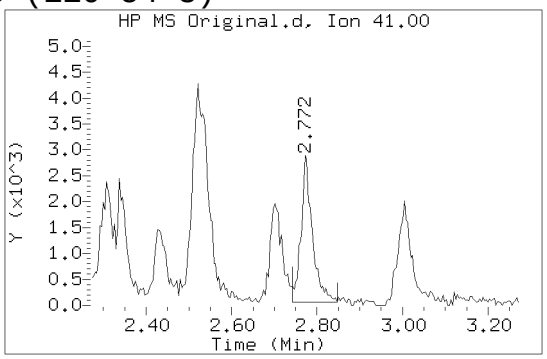
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

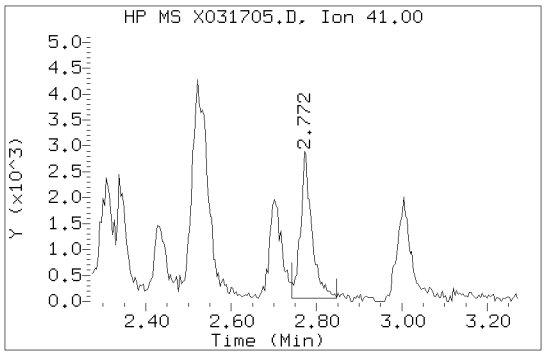
n-Hexane (110-54-3)

Reason Code:

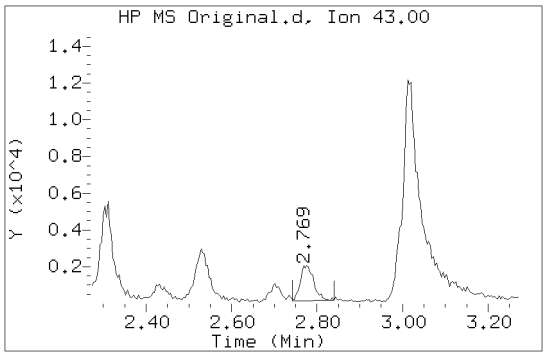
BEFORE
MASS
41
AREA
5361
HEIGHT
2834
21-Mar-2023
10:17
linh
pham



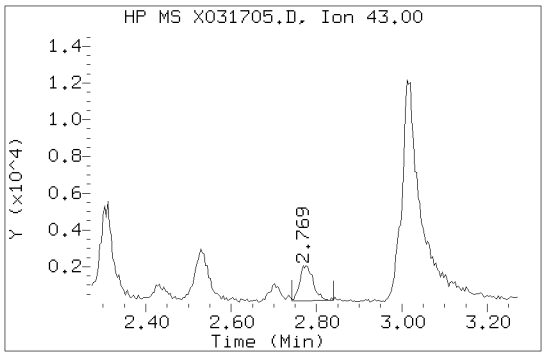
AFTER
MASS
41
AREA
5361
HEIGHT
2834
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
43
AREA
4306
HEIGHT
1911
21-Mar-2023
10:17
linh
pham



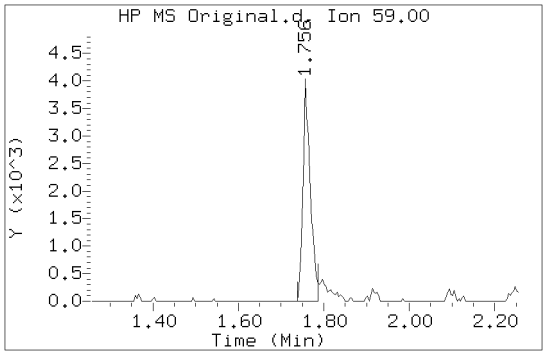
AFTER
MASS
43
AREA
4306
HEIGHT
1911
21-Mar-2023
10:17
linh
pham



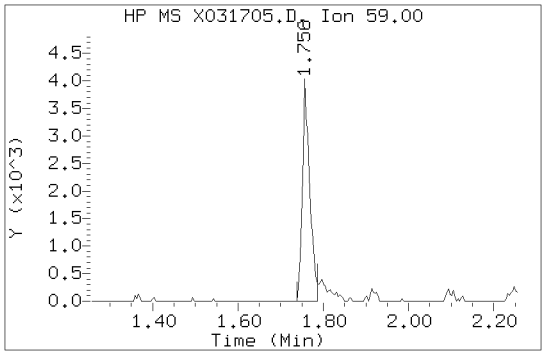
Diethyl ether (60-29-7)

Reason Code:

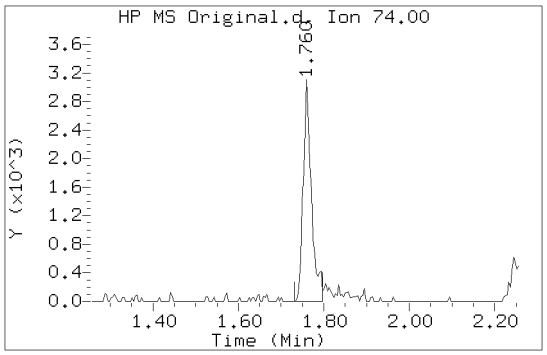
BEFORE
MASS
59
AREA
4986
HEIGHT
4036
21-Mar-2023
10:17
linh
pham



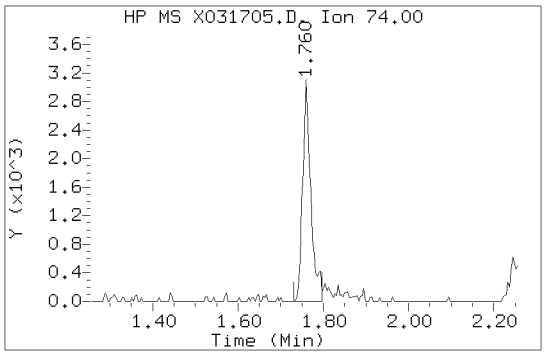
AFTER
MASS
59
AREA
4986
HEIGHT
4036
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
74
AREA
4223
HEIGHT
3105
21-Mar-2023
10:17
linh
pham



AFTER
MASS
74
AREA
4223
HEIGHT
3105
21-Mar-2023
10:17
linh
pham



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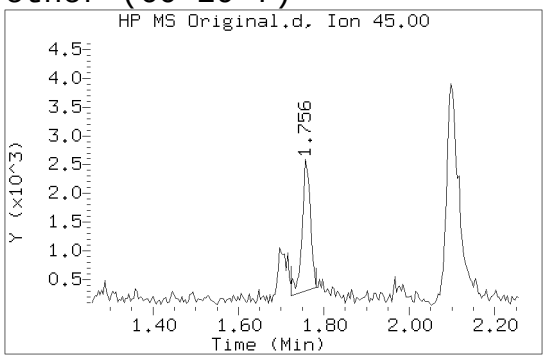
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Diethyl ether (60-29-7)

Reason Code:

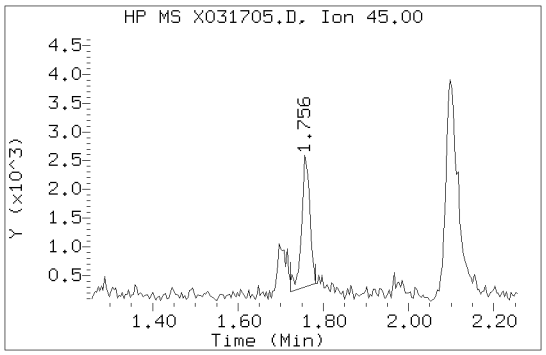
BEFORE

MASS
45
AREA
3205
HEIGHT
2290
21-Mar-2023
10:17
linh
pham



AFTER

MASS
45
AREA
3205
HEIGHT
2290
21-Mar-2023
10:17
linh
pham

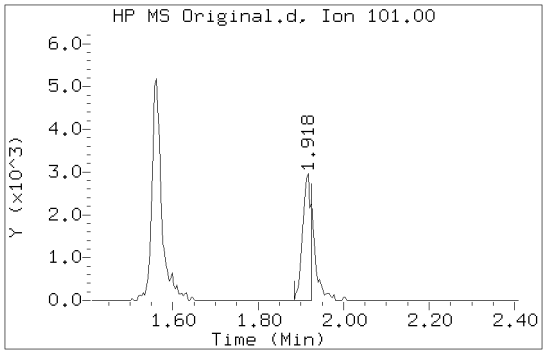


Freon TF (76-13-1)

Reason Code:

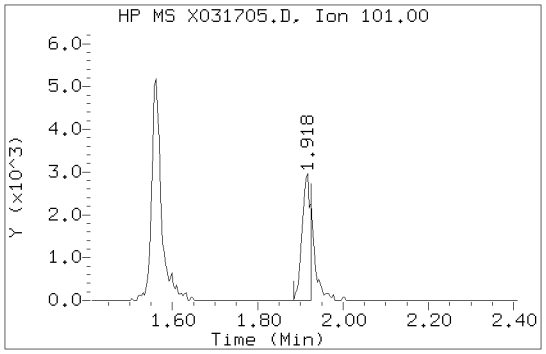
BEFORE

MASS
101
AREA
4071
HEIGHT
2973
21-Mar-2023
10:17
linh
pham



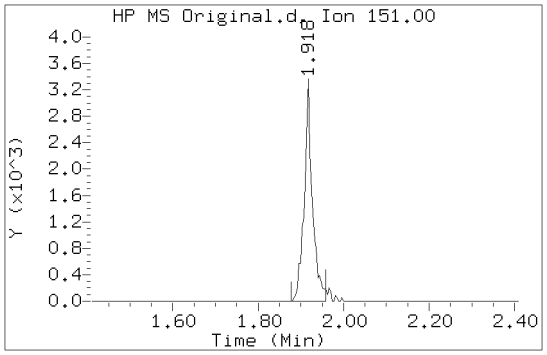
AFTER

MASS
101
AREA
4071
HEIGHT
2973
21-Mar-2023
10:17
linh
pham



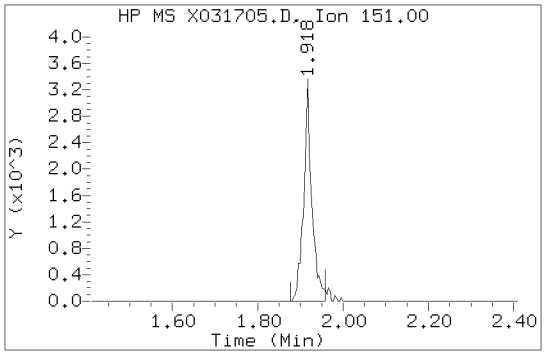
BEFORE

MASS
151
AREA
4526
HEIGHT
3365
21-Mar-2023
10:17
linh
pham



AFTER

MASS
151
AREA
4526
HEIGHT
3365
21-Mar-2023
10:17
linh
pham

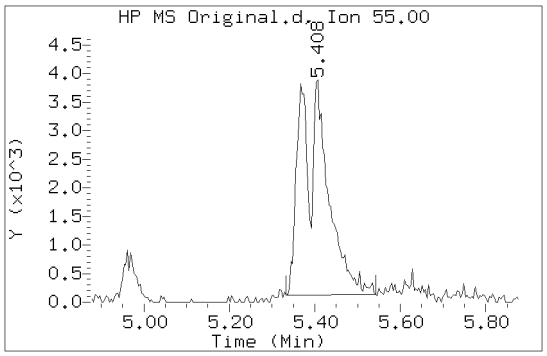


Methylcyclohexane (108-87-2)

Reason Code:

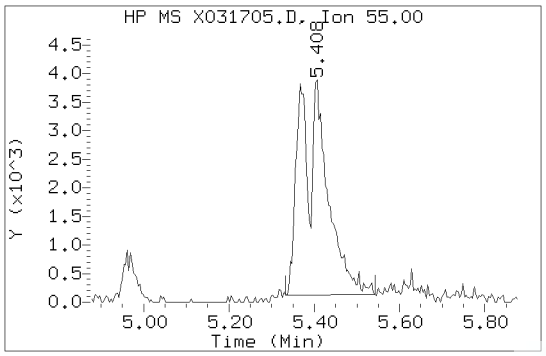
BEFORE

MASS
55
AREA
16726
HEIGHT
3762
21-Mar-2023
10:17
linh
pham



AFTER

MASS
55
AREA
16726
HEIGHT
3762
21-Mar-2023
10:17
linh
pham

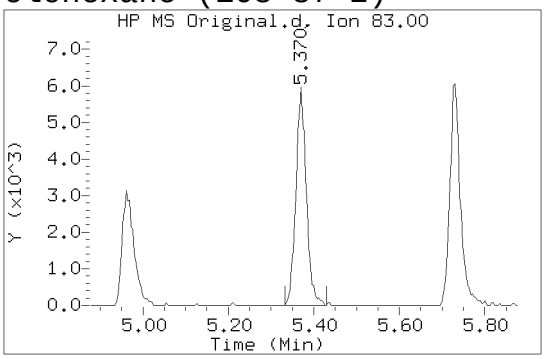


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Methylcyclohexane (108-87-2)

BEFORE

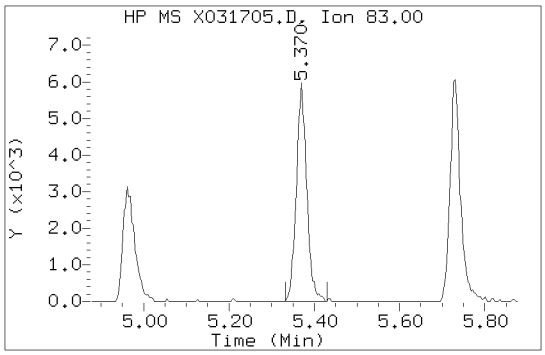
MASS
83
AREA
10272
HEIGHT
5978
21-Mar-2023
10:17
linh
pham



Reason Code:

AFTER

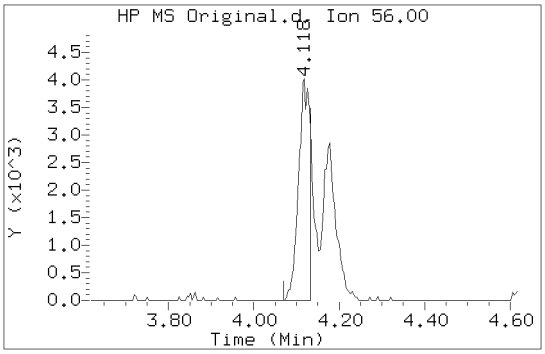
MASS
83
AREA
10272
HEIGHT
5978
21-Mar-2023
10:17
linh
pham



Cyclohexane (110-82-7)

BEFORE

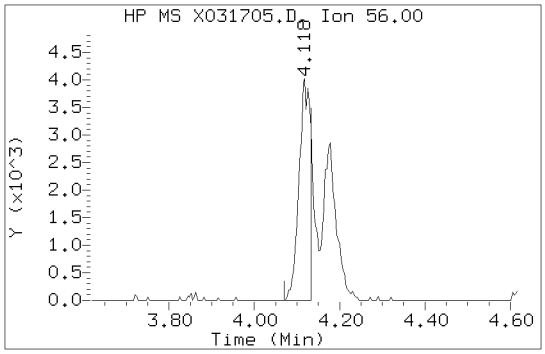
MASS
56
AREA
7493
HEIGHT
4022
21-Mar-2023
10:17
linh
pham



Reason Code:

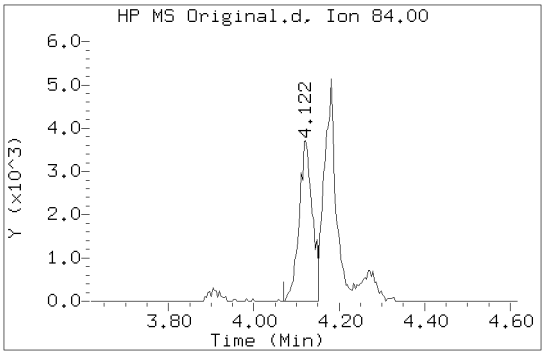
AFTER

MASS
56
AREA
7493
HEIGHT
4022
21-Mar-2023
10:17
linh
pham



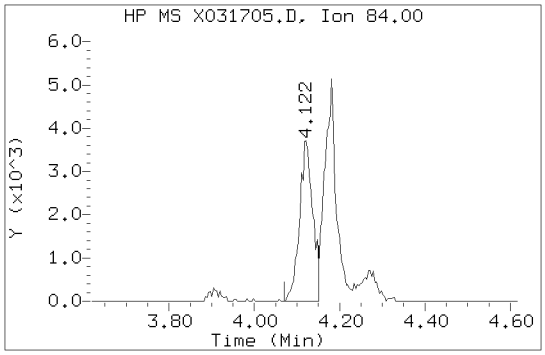
BEFORE

MASS
84
AREA
8172
HEIGHT
3709
21-Mar-2023
10:17
linh
pham



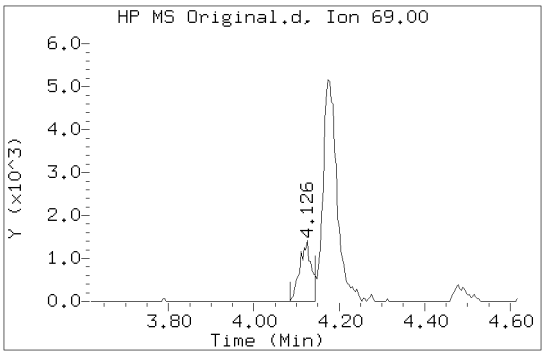
AFTER

MASS
84
AREA
8172
HEIGHT
3709
21-Mar-2023
10:17
linh
pham



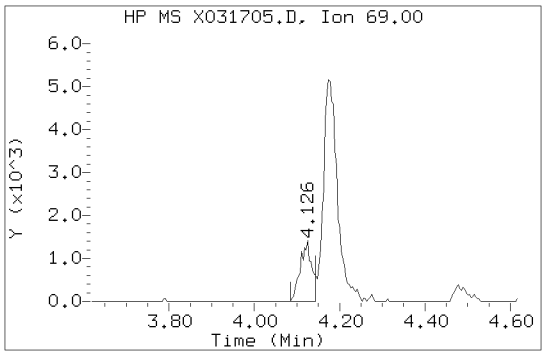
BEFORE

MASS
69
AREA
2719
HEIGHT
1421
21-Mar-2023
10:17
linh
pham



AFTER

MASS
69
AREA
2719
HEIGHT
1421
21-Mar-2023
10:17
linh
pham



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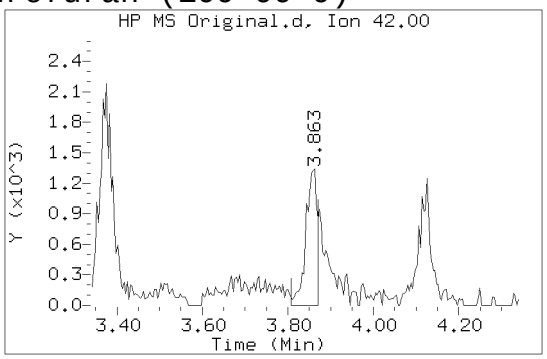
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Tetrahydrofuran (109-99-9)

Reason Code:

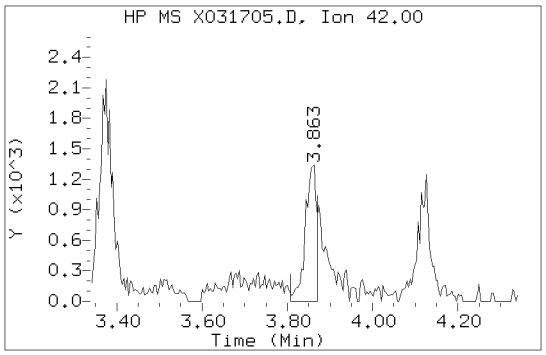
BEFORE

MASS
42
AREA
2463
HEIGHT
1345
21-Mar-2023
10:17
linh
pham



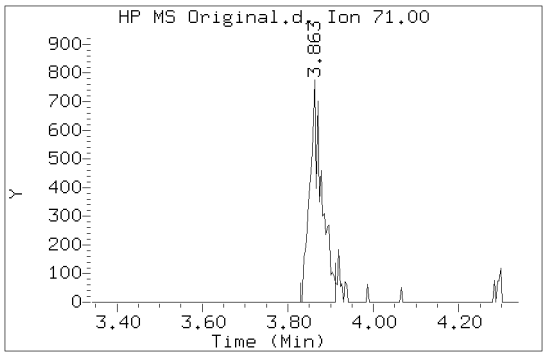
AFTER

MASS
42
AREA
2463
HEIGHT
1345
21-Mar-2023
10:17
linh
pham



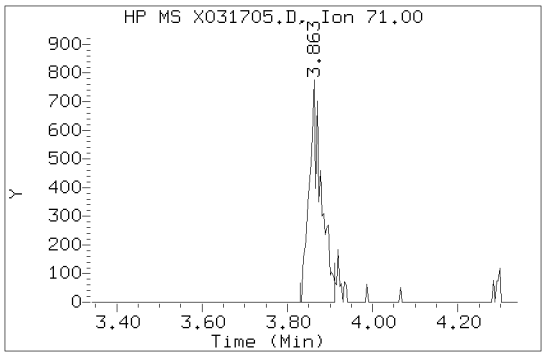
BEFORE

MASS
71
AREA
1529
HEIGHT
776
21-Mar-2023
10:17
linh
pham



AFTER

MASS
71
AREA
1529
HEIGHT
776
21-Mar-2023
10:17
linh
pham

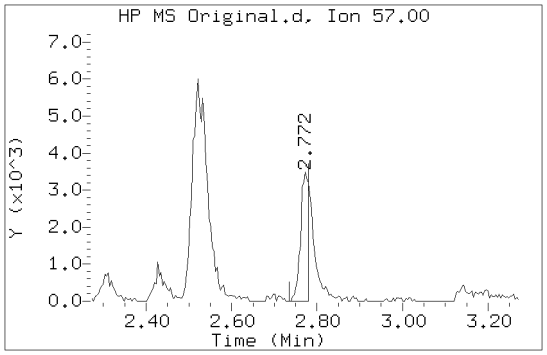


Allyl alcohol (107-18-6)

Reason Code:

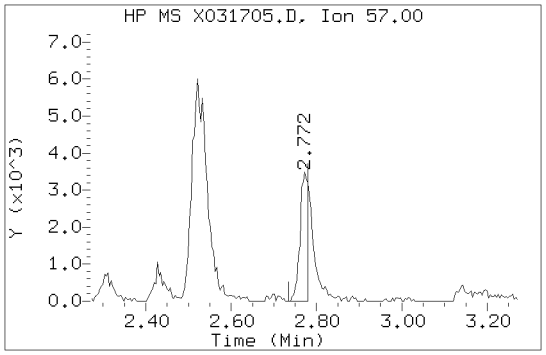
BEFORE

MASS
57
AREA
4552
HEIGHT
3483
21-Mar-2023
10:17
linh
pham



AFTER

MASS
57
AREA
4552
HEIGHT
3483
21-Mar-2023
10:17
linh
pham

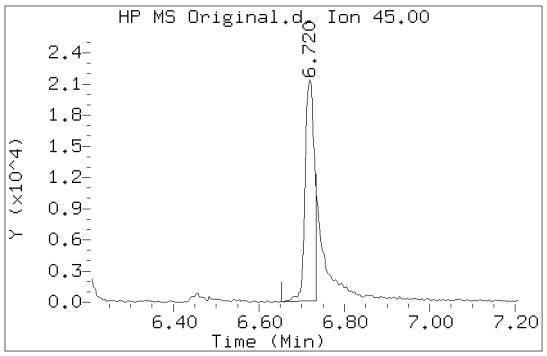


4-Methyl-2-pentanol (108-11-2)

Reason Code:

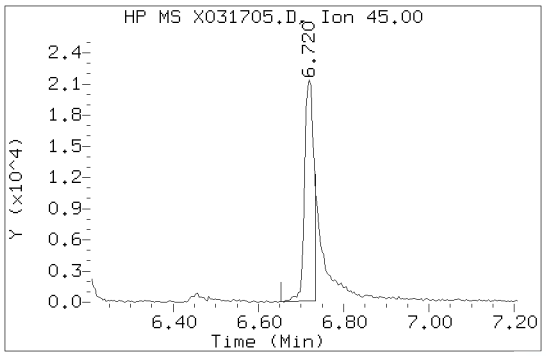
BEFORE

MASS
45
AREA
32931
HEIGHT
21310
21-Mar-2023
10:17
linh
pham



AFTER

MASS
45
AREA
32931
HEIGHT
21310
21-Mar-2023
10:17
linh
pham



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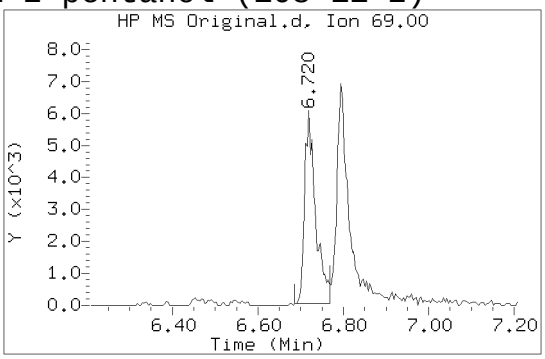
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

4-Methyl-2-pentanol (108-11-2)

Reason Code:

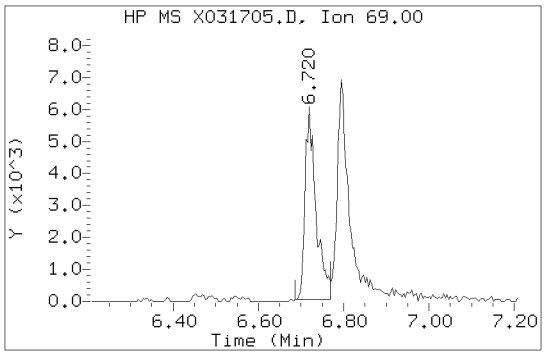
BEFORE

MASS
69
AREA
10752
HEIGHT
6028
21-Mar-2023
10:17
linh
pham



AFTER

MASS
69
AREA
10752
HEIGHT
6028
21-Mar-2023
10:17
linh
pham

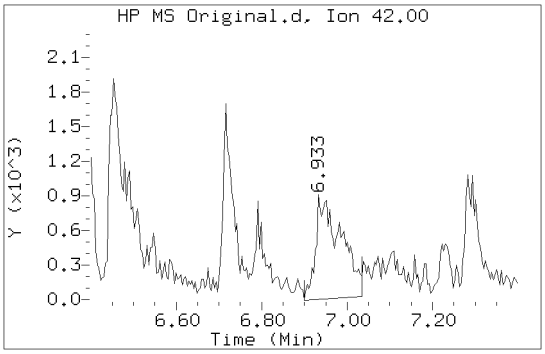


Amyl alcohol (71-41-0)

Reason Code:

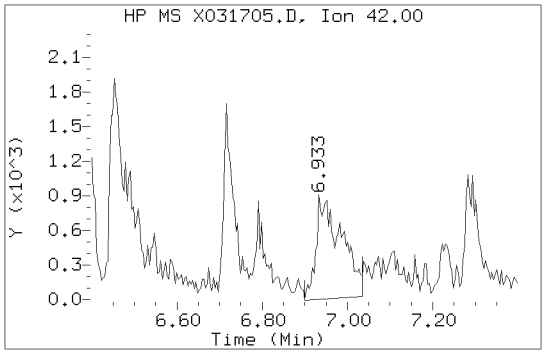
BEFORE

MASS
42
AREA
3699
HEIGHT
908
21-Mar-2023
10:17
linh
pham



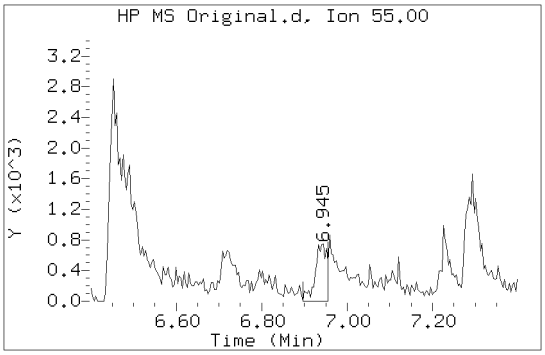
AFTER

MASS
42
AREA
3699
HEIGHT
908
21-Mar-2023
10:17
linh
pham



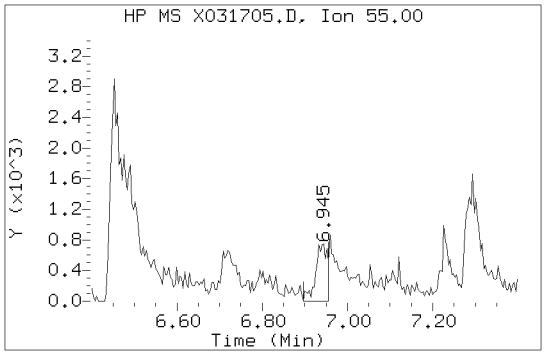
BEFORE

MASS
55
AREA
1444
HEIGHT
744
21-Mar-2023
10:17
linh
pham



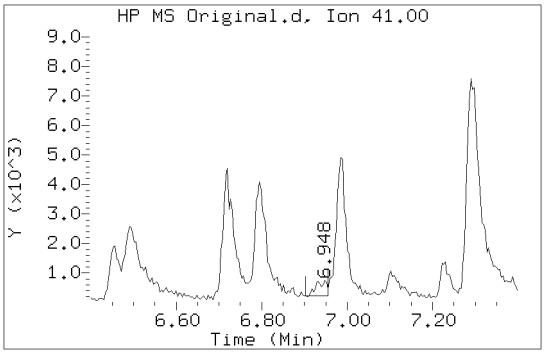
AFTER

MASS
55
AREA
1444
HEIGHT
744
21-Mar-2023
10:17
linh
pham



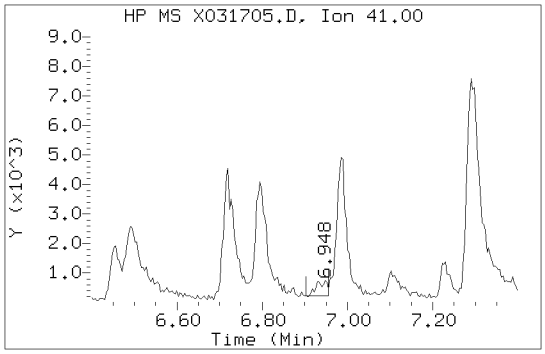
BEFORE

MASS
41
AREA
883
HEIGHT
515
21-Mar-2023
10:17
linh
pham



AFTER

MASS
41
AREA
883
HEIGHT
515
21-Mar-2023
10:17
linh
pham



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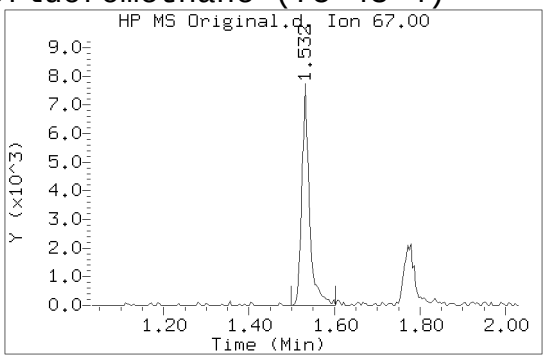
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

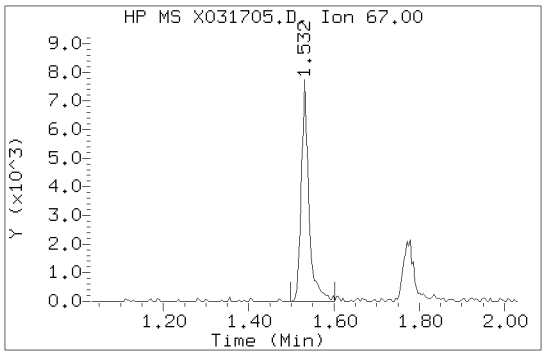
Dichlorofluoromethane (75-43-4)

Reason Code:

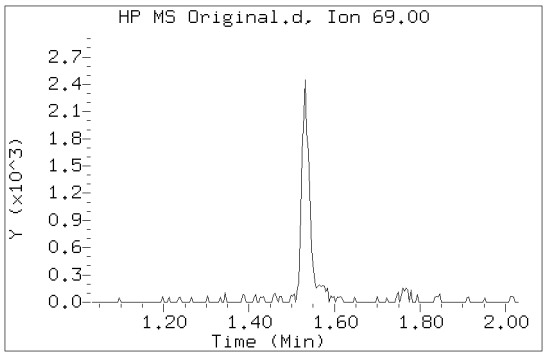
BEFORE
MASS
67
AREA
9922
HEIGHT
7742
21-Mar-2023
10:17
linh
pham



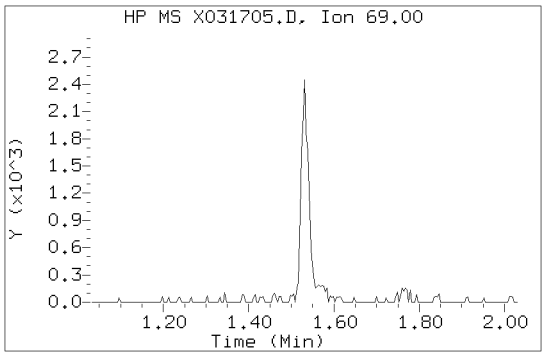
AFTER
MASS
67
AREA
9922
HEIGHT
7742
21-Mar-2023
10:17
linh
pham



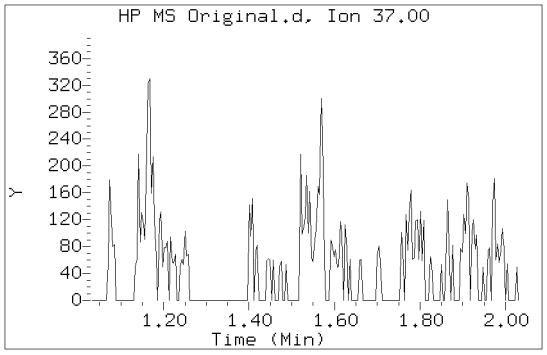
BEFORE
MASS
69
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



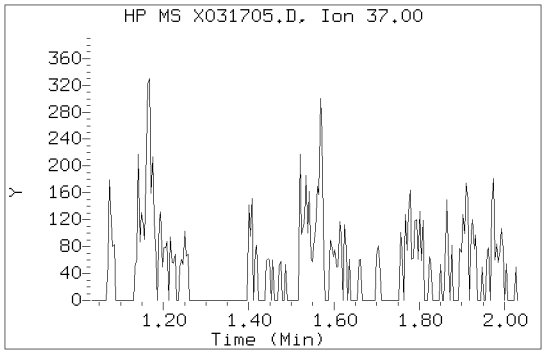
AFTER
MASS
69
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
37
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



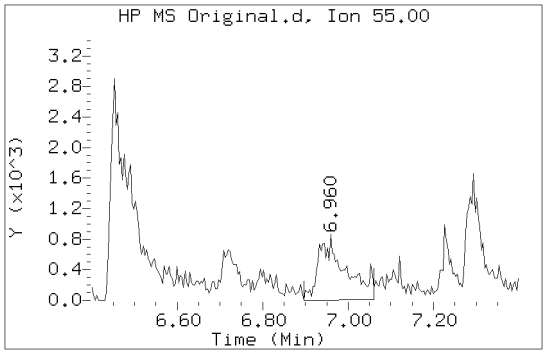
AFTER
MASS
37
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



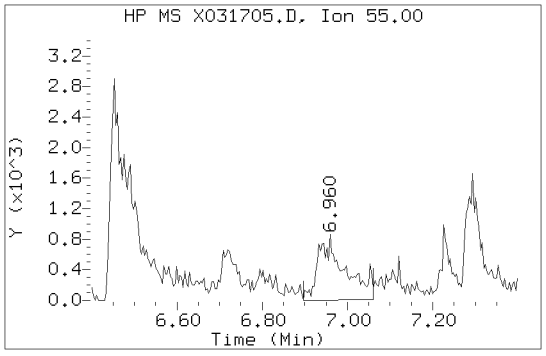
3-Methyl-1-butanol (123-51-3)

Reason Code:

BEFORE
MASS
55
AREA
3723
HEIGHT
862
21-Mar-2023
10:17
linh
pham



AFTER
MASS
55
AREA
3723
HEIGHT
862
21-Mar-2023
10:17
linh
pham



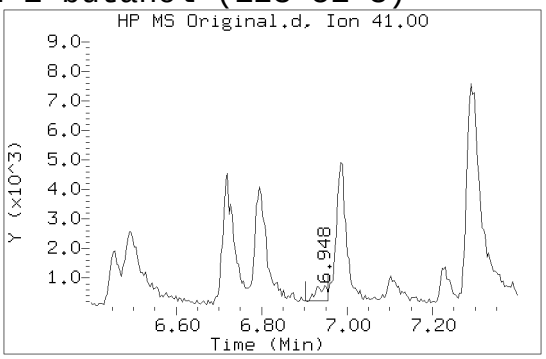
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

3-Methyl-1-butanol (123-51-3)

Reason Code:

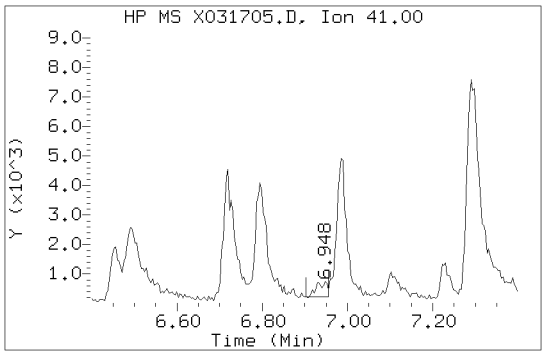
BEFORE

MASS
41
AREA
883
HEIGHT
515
21-Mar-2023
10:17
linh
pham



AFTER

MASS
41
AREA
883
HEIGHT
515
21-Mar-2023
10:17
linh
pham

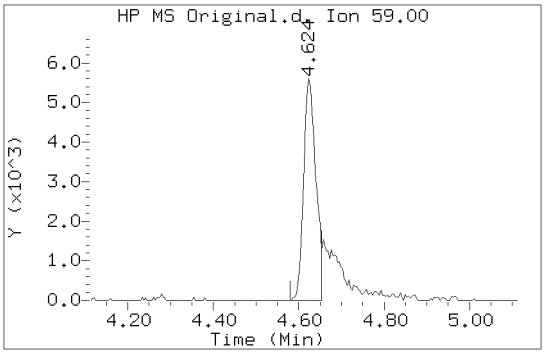


tert-Butyl formate (762-75-4)

Reason Code:

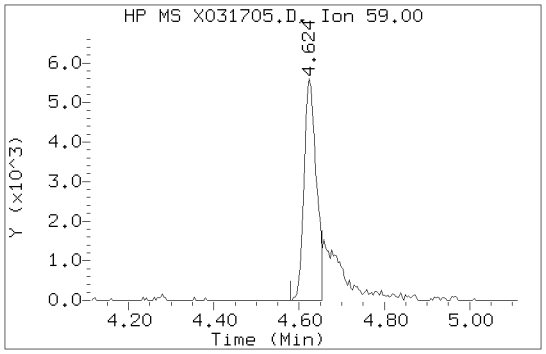
BEFORE

MASS
59
AREA
11320
HEIGHT
5602
21-Mar-2023
10:17
linh
pham



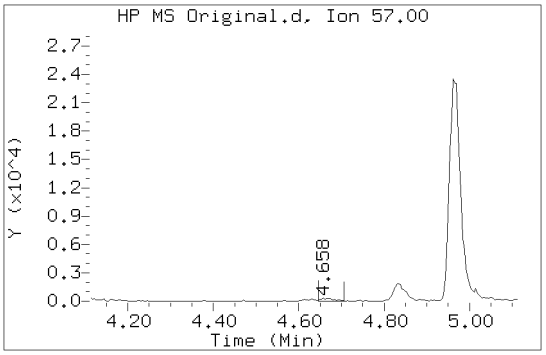
AFTER

MASS
59
AREA
11320
HEIGHT
5602
21-Mar-2023
10:17
linh
pham



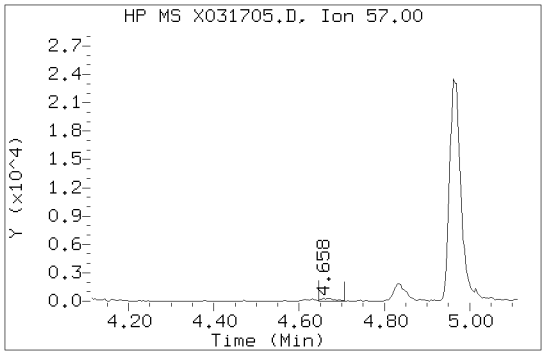
BEFORE

MASS
57
AREA
678
HEIGHT
349
21-Mar-2023
10:17
linh
pham



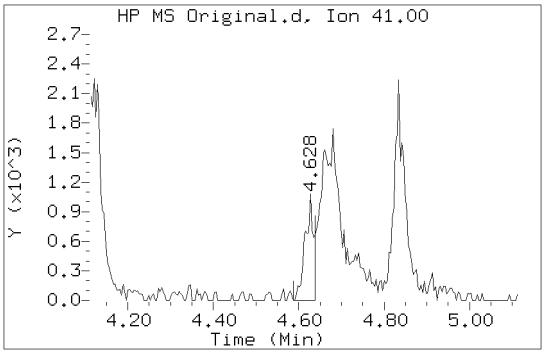
AFTER

MASS
57
AREA
678
HEIGHT
349
21-Mar-2023
10:17
linh
pham



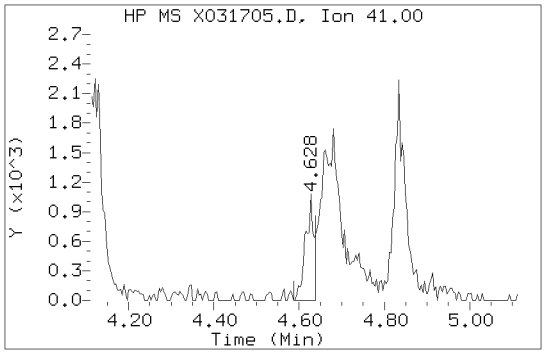
BEFORE

MASS
41
AREA
1513
HEIGHT
1083
21-Mar-2023
10:17
linh
pham



AFTER

MASS
41
AREA
1513
HEIGHT
1083
21-Mar-2023
10:17
linh
pham



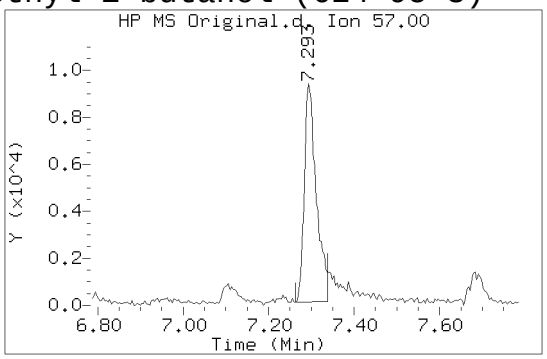
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

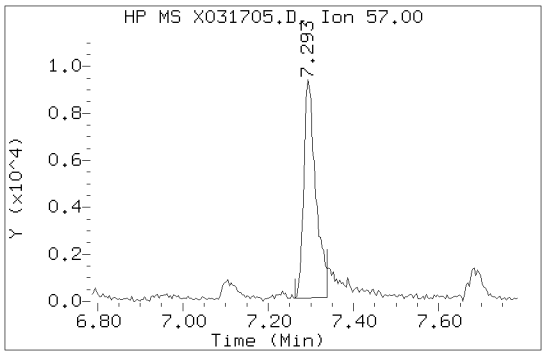
BEFORE

MASS
57
AREA
18400
HEIGHT
9284
21-Mar-2023
10:17
linh
pham



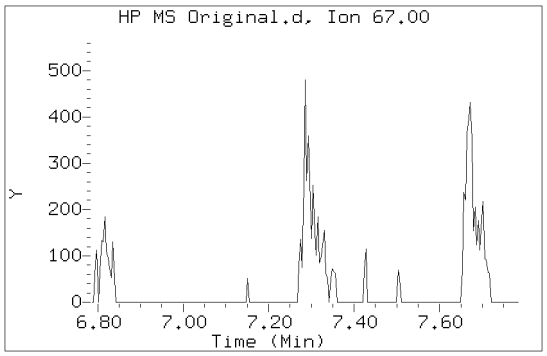
AFTER

MASS
57
AREA
18400
HEIGHT
9284
21-Mar-2023
10:17
linh
pham



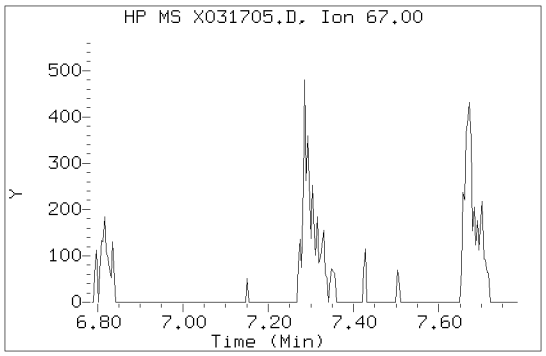
BEFORE

MASS
67
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
67
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
56
AREA
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HEIGHT
0
21-Mar-2023
10:17
linh
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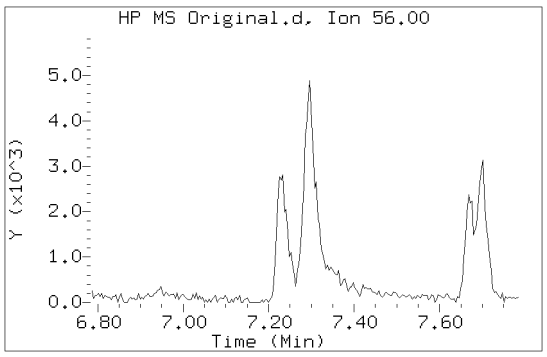

AFTER

MASS
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21-Mar-2023
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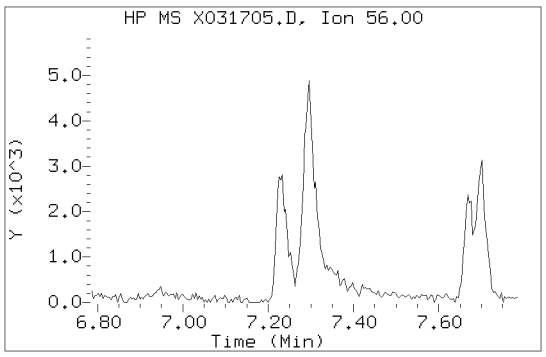

tert-Amyl methyl ether (974-05-08)

Reason Code:

BEFORE

MASS
73
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26677
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12587
21-Mar-2023
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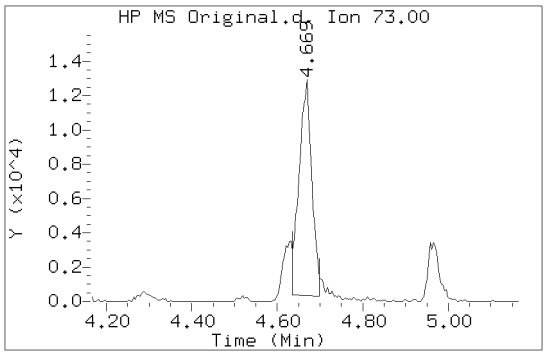
linh
pham



AFTER

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HEIGHT
12587
21-Mar-2023
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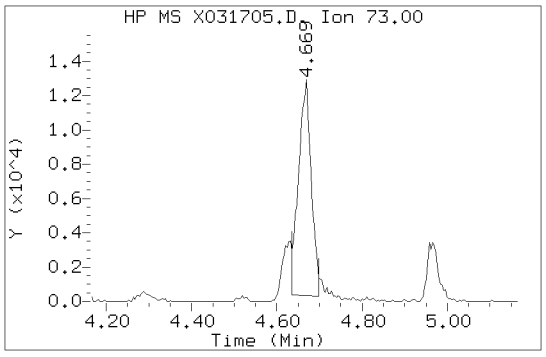
pham



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Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

tert-Amyl methyl ether (974-05-08)

Reason Code:

BEFORE

MASS
87
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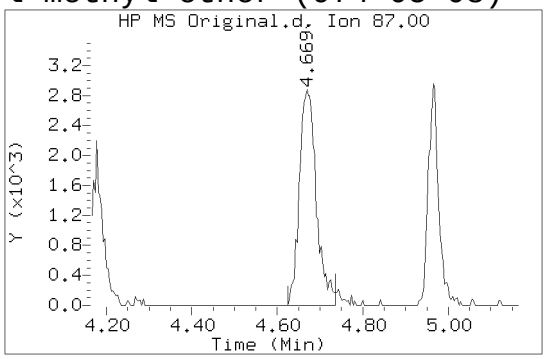
8078
HEIGHT
2884
21-Mar-2023
10:17
linh
pham



AFTER

MASS
87
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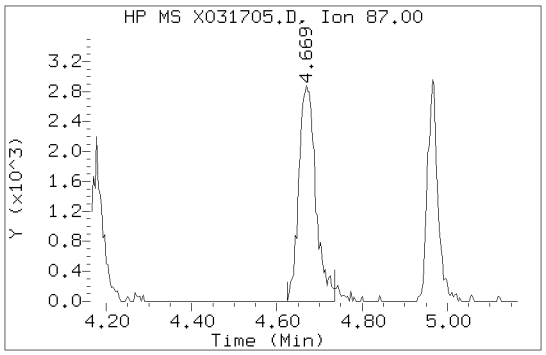
8078
HEIGHT
2884
21-Mar-2023
10:17
linh
pham



BEFORE

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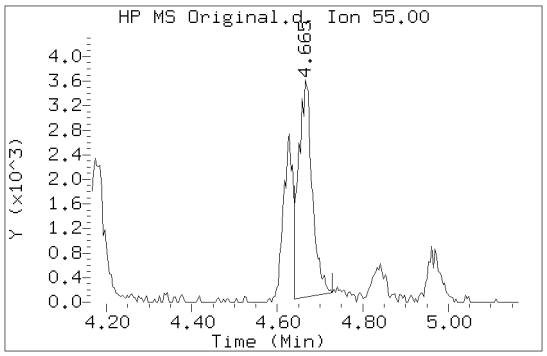
HEIGHT
3535
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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AREA
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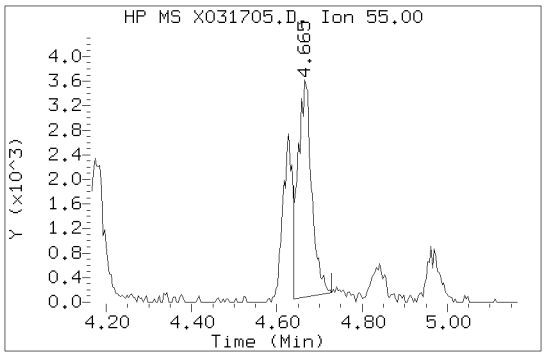
HEIGHT
3535
21-Mar-2023
10:17
linh
pham



tert-Butyl ethyl ether (637-92-3)

Reason Code:

BEFORE

MASS
59
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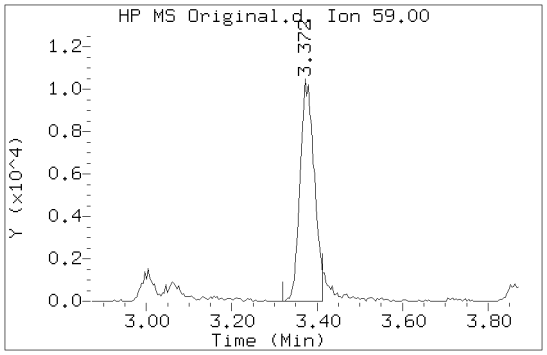
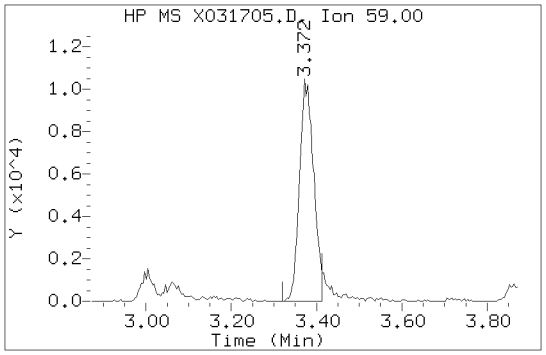
HEIGHT
10481
21-Mar-2023
10:17
linh
pham



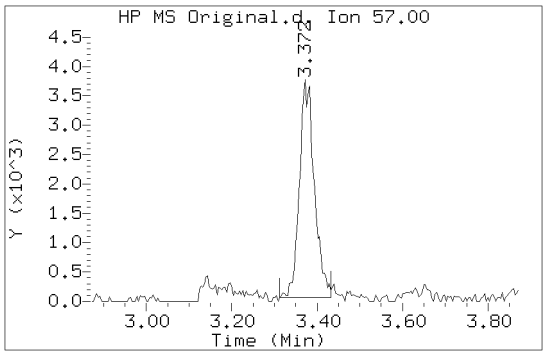
AFTER

MASS
59
AREA
24578
HEIGHT
10481
21-Mar-2023
10:17
linh
pham



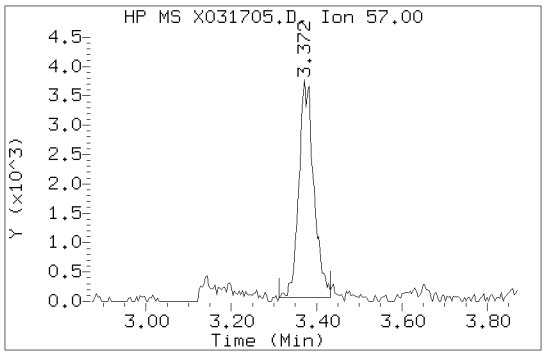
BEFORE

MASS
57
AREA
9190
HEIGHT
3714
21-Mar-2023
10:17
linh
pham



AFTER

MASS
57
AREA
9190
HEIGHT
3714
21-Mar-2023
10:17
linh
pham



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Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

tert-Butyl ethyl ether (637-92-3)

Reason Code:

BEFORE

MASS
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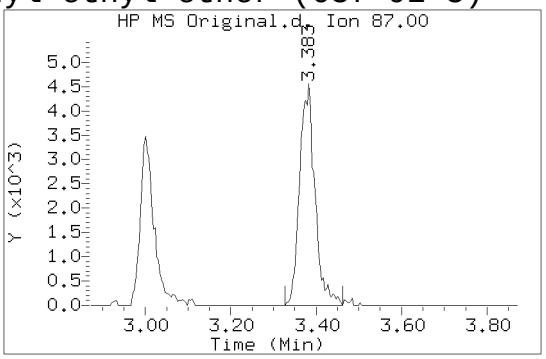
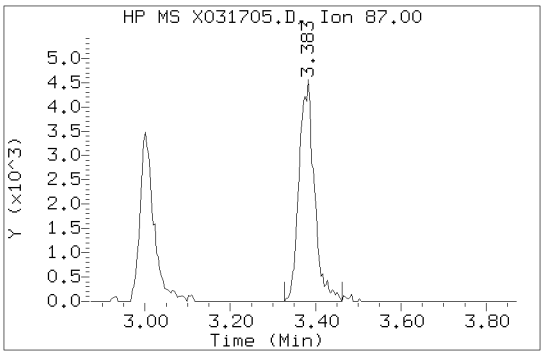
11488
HEIGHT
4560
21-Mar-2023
10:17
linh
pham



AFTER

MASS
87
AREA
11488
HEIGHT
4560
21-Mar-2023
10:17
linh
pham



tert-Amyl alcohol (75-85-4)

Reason Code:

BEFORE

MASS
59
AREA
12773
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5602
21-Mar-2023
10:17
linh
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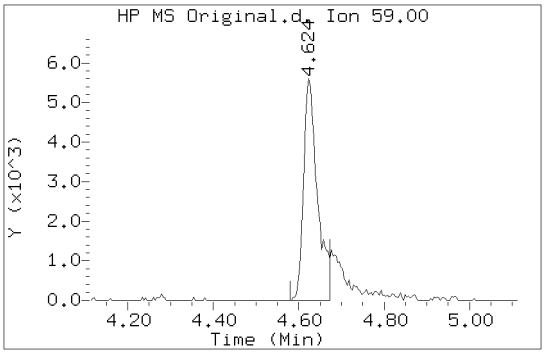

AFTER

MASS
59
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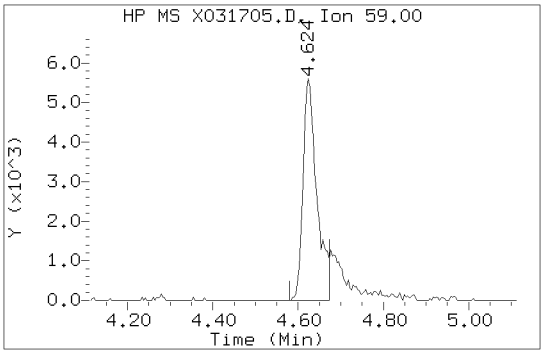
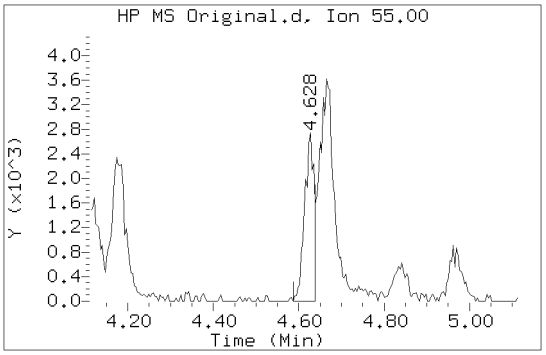
HEIGHT
5602
21-Mar-2023
10:17
linh
pham



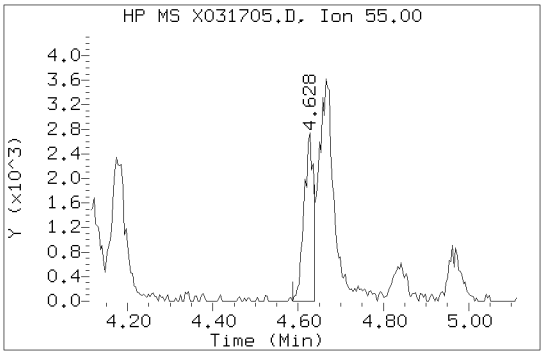
BEFORE

MASS
55
AREA
4285
HEIGHT
2742
21-Mar-2023
10:17
linh
pham



AFTER

MASS
55
AREA
4285
HEIGHT
2742
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
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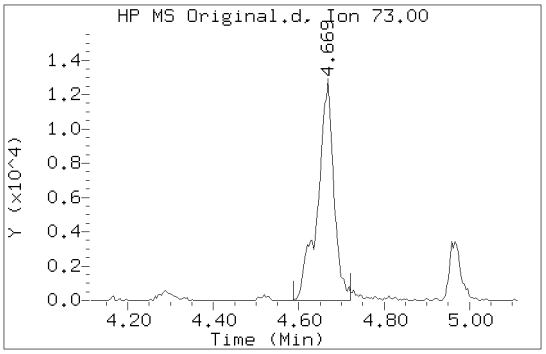
34081
HEIGHT
12932
21-Mar-2023
10:17
linh
pham



AFTER

MASS
73
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HEIGHT
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21-Mar-2023
10:17
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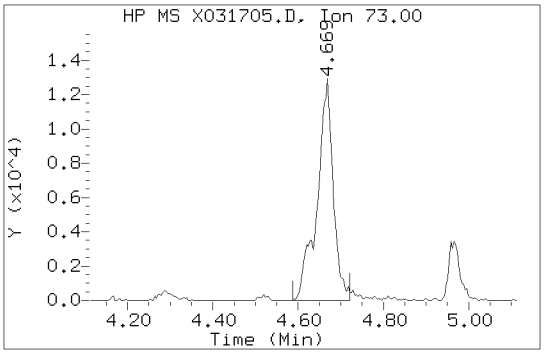

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Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Isoprene (78-79-5)

Reason Code:

BEFORE

MASS
39
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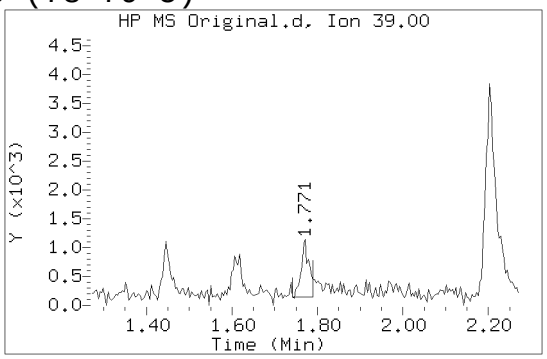
1305
HEIGHT
999
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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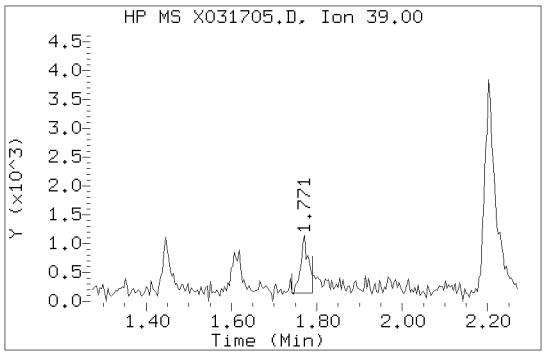
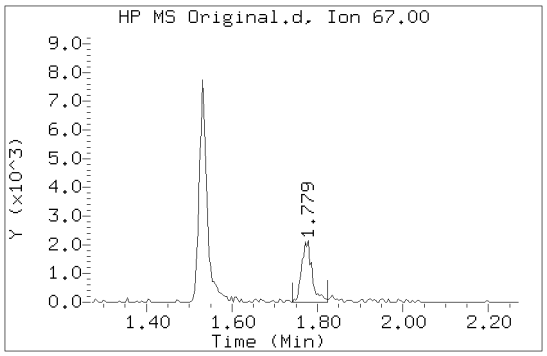
HEIGHT
999
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
67
AREA
3708
HEIGHT
2160
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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HEIGHT
2160
21-Mar-2023
10:17
linh
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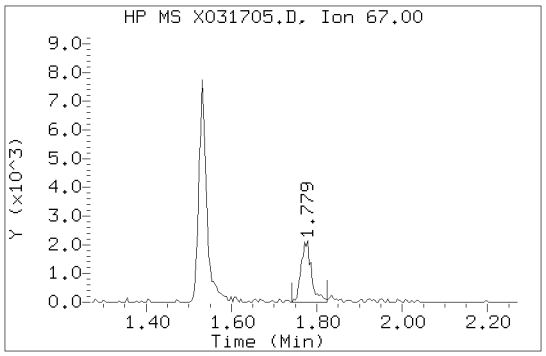

BEFORE

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AREA
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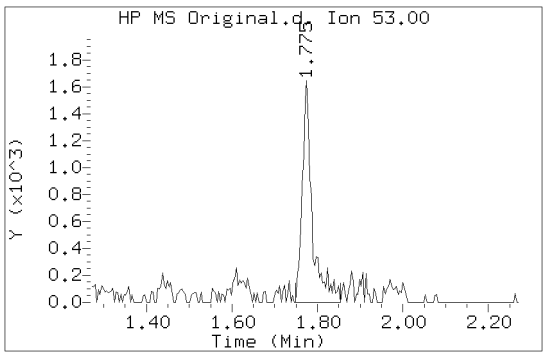
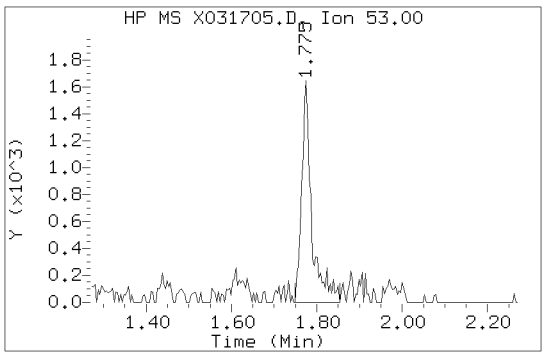
HEIGHT
1645
21-Mar-2023
10:17
linh
pham



AFTER

MASS
53
AREA
2743
HEIGHT
1645
21-Mar-2023
10:17
linh
pham



n-Amyl acetate (628-63-7)

Reason Code:

BEFORE

MASS
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HEIGHT
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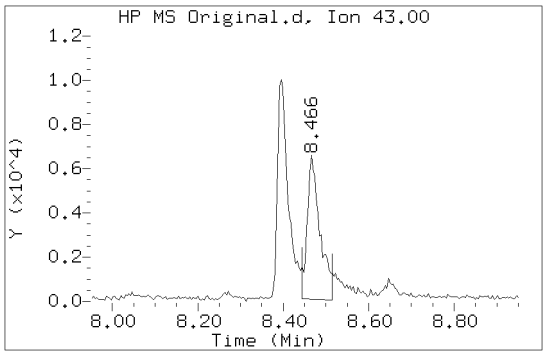
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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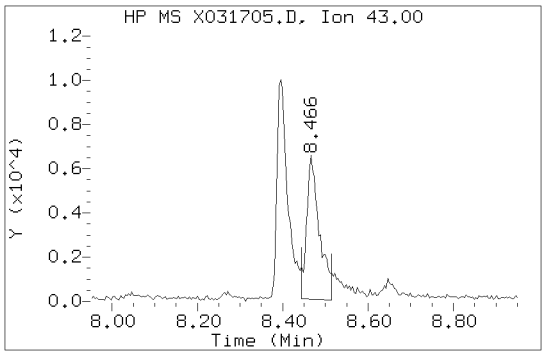
13808
HEIGHT
6503
21-Mar-2023
10:17
linh
pham



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Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

n-Amyl acetate (628-63-7)

Reason Code:

BEFORE
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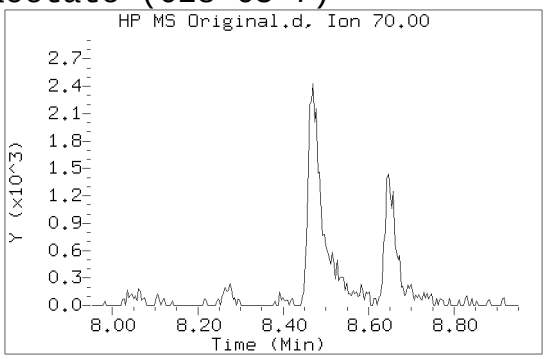
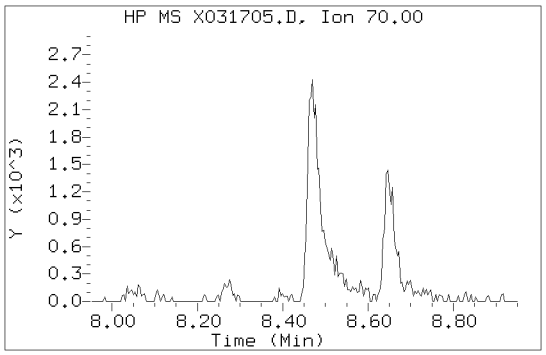
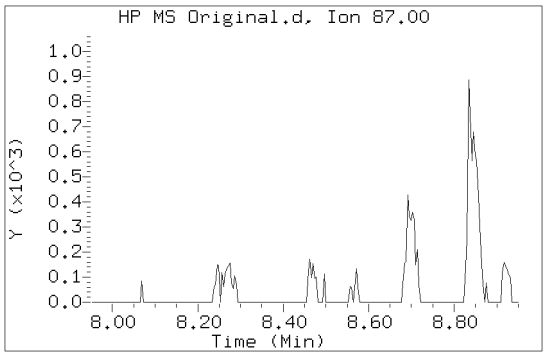
70
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER
MASS
70
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
87
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER
MASS
87
AREA
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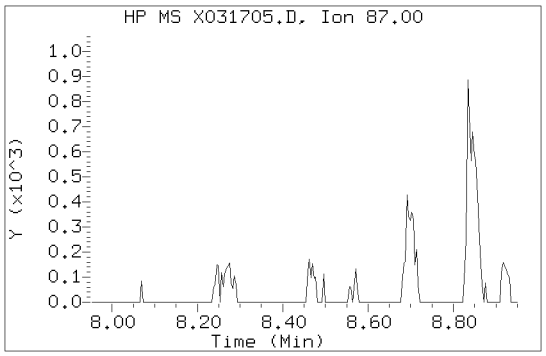
HEIGHT
0
21-Mar-2023
10:17
linh
pham



n-Butyl acetate (123-86-4)

Reason Code:

BEFORE
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AREA
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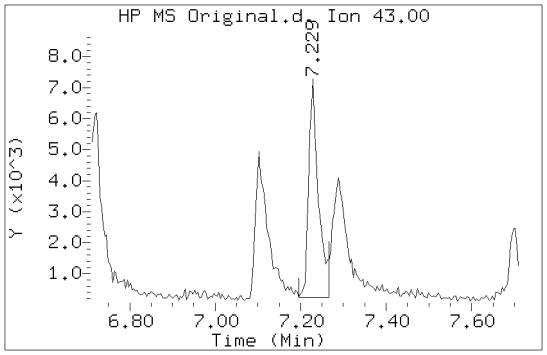
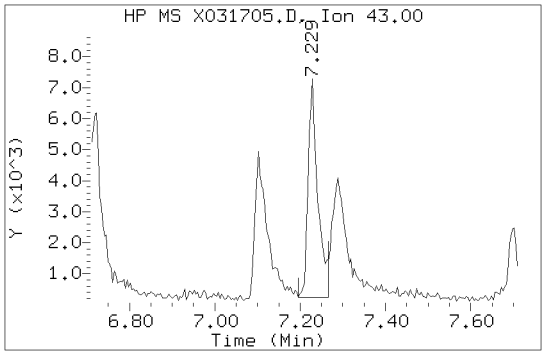
HEIGHT
7031
21-Mar-2023
10:17
linh
pham



AFTER
MASS
43
AREA
11156
HEIGHT
7031
21-Mar-2023
10:17
linh
pham



BEFORE
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AREA
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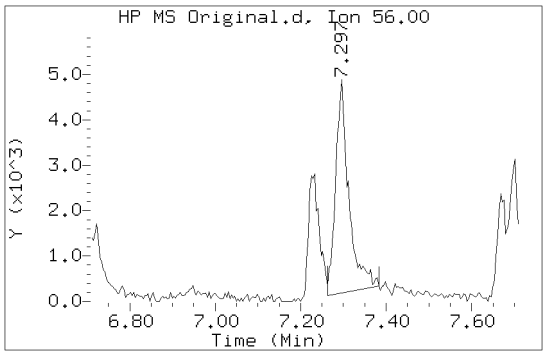
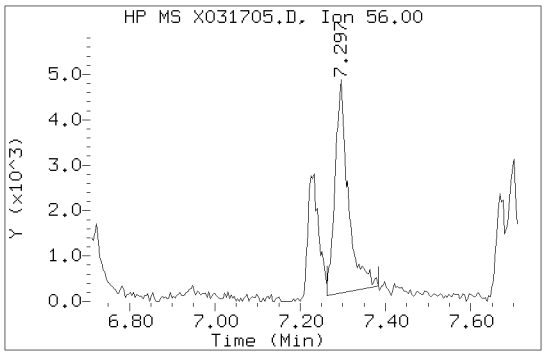
HEIGHT
4692
21-Mar-2023
10:17
linh
pham



AFTER
MASS
56
AREA
10025
HEIGHT
4692
21-Mar-2023
10:17
linh
pham



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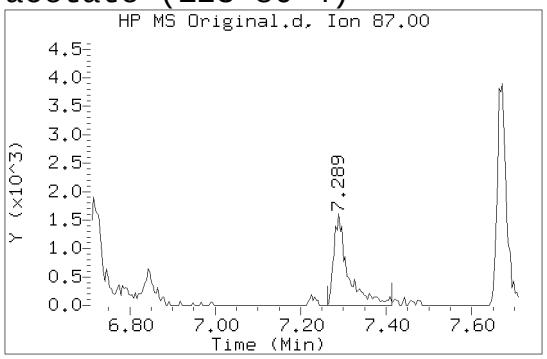
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

n-Butyl acetate (123-86-4)

Reason Code:

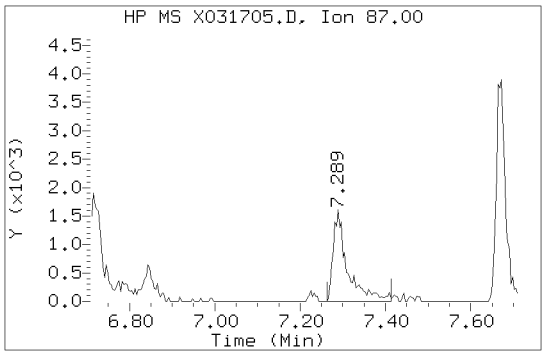
BEFORE

MASS
87
AREA
3729
HEIGHT
1617
21-Mar-2023
10:17
linh
pham



AFTER

MASS
87
AREA
3729
HEIGHT
1617
21-Mar-2023
10:17
linh
pham



Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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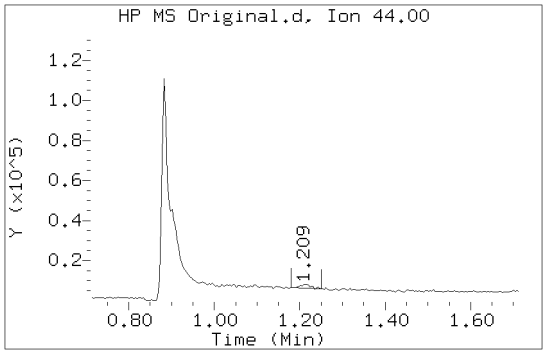
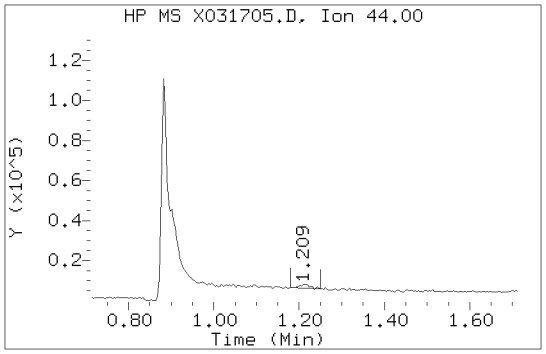
44
AREA
3379
HEIGHT
1961
21-Mar-2023
10:17
linh
pham



AFTER

MASS
44
AREA
3379
HEIGHT
1961
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
43
AREA
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HEIGHT
0
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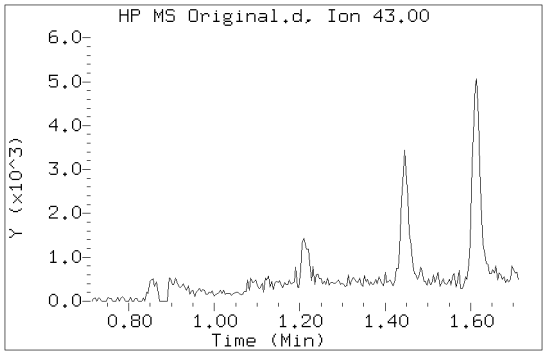

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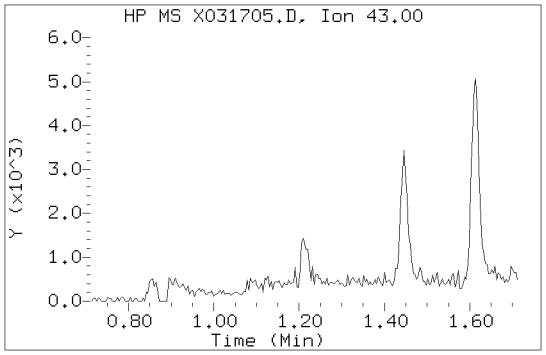

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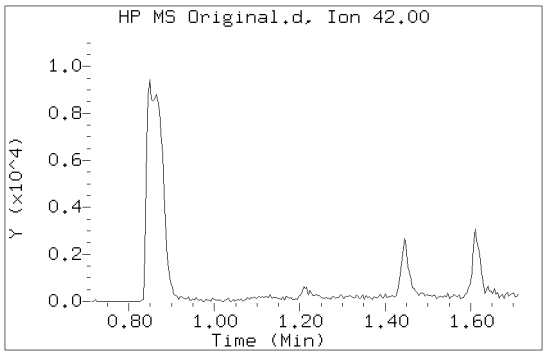

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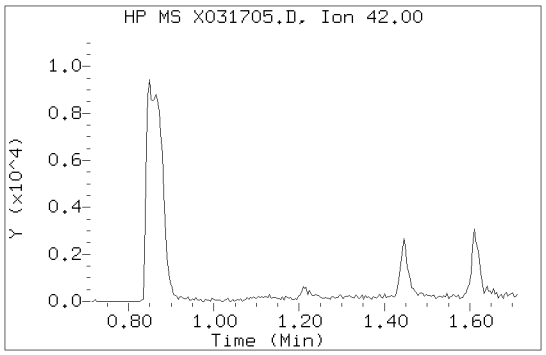

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Inj Date : 17-MAR-2023 12:53
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LabSampID : VSTD002

Isobutylene (115-11-7)

Reason Code:

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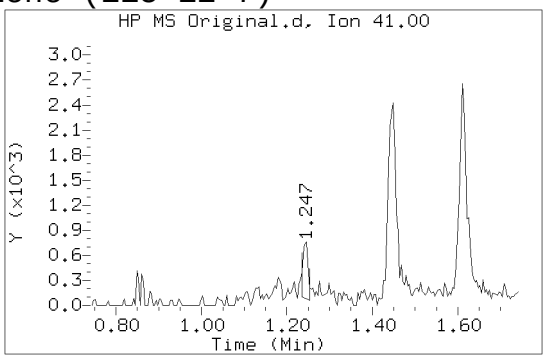

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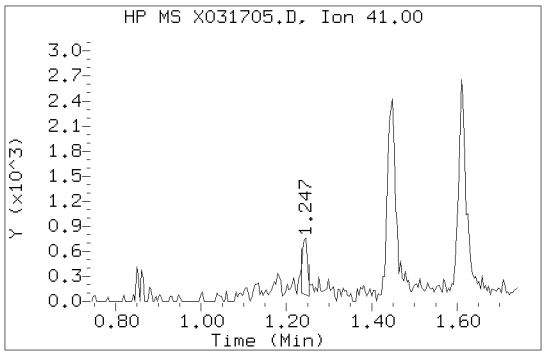

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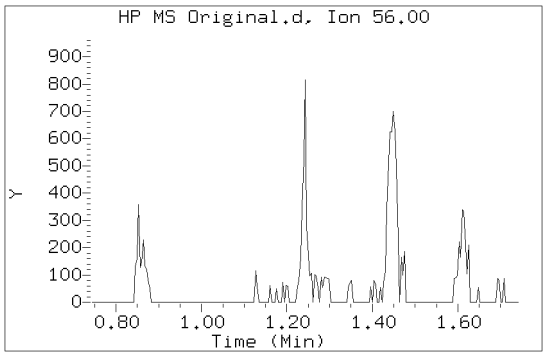

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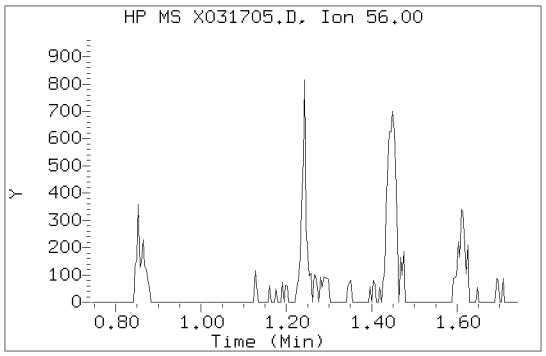

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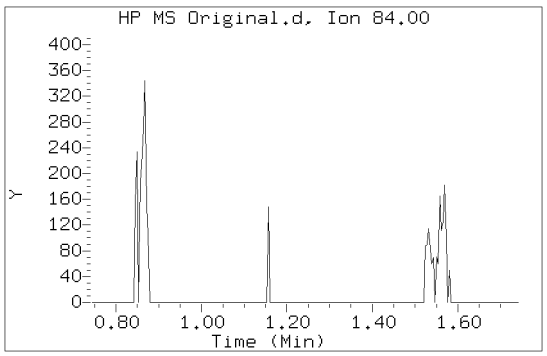

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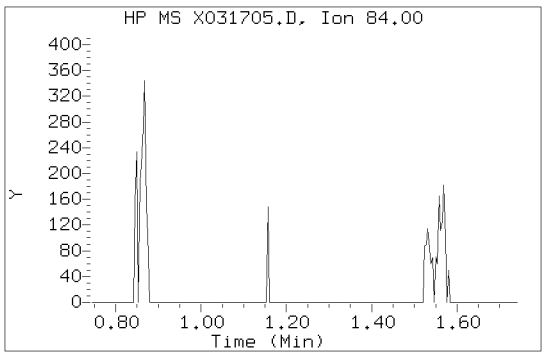

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

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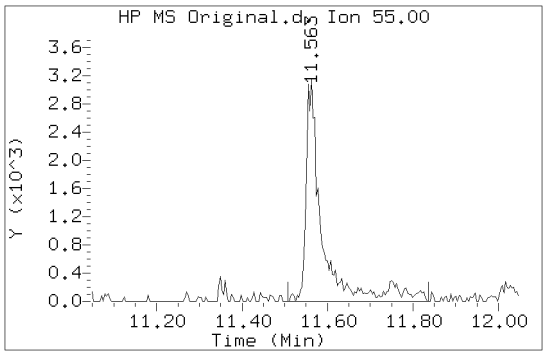

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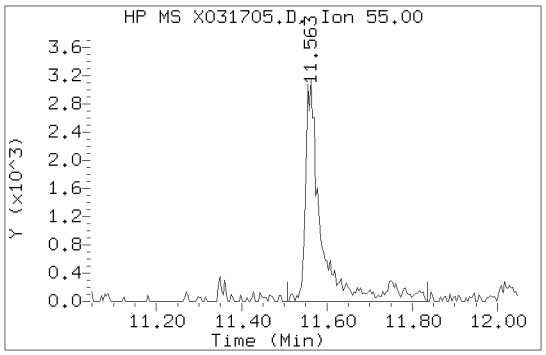

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Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

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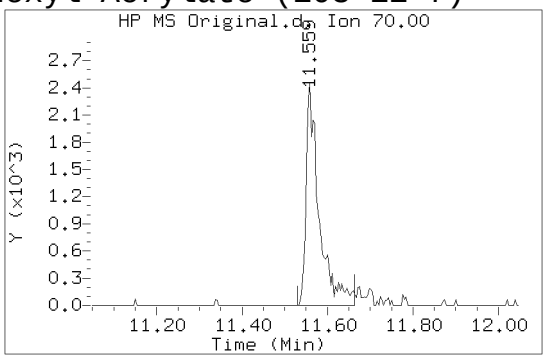

AFTER

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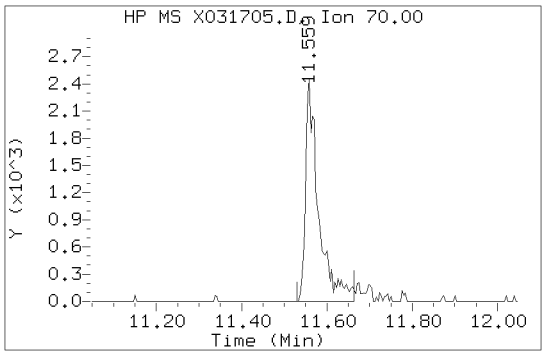

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

BEFORE

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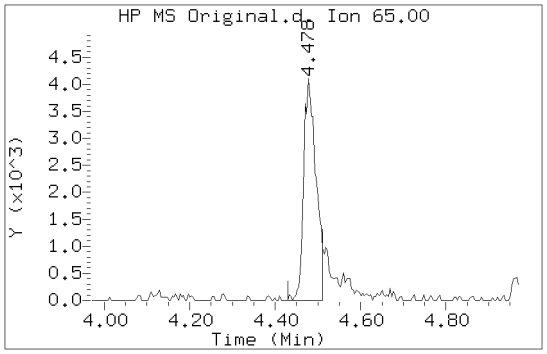

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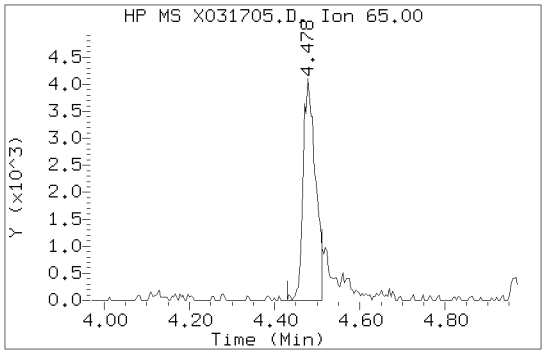

BEFORE

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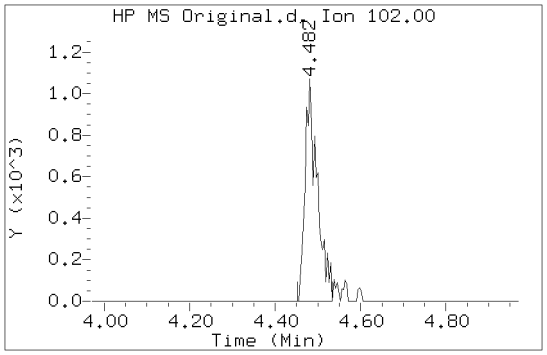

AFTER

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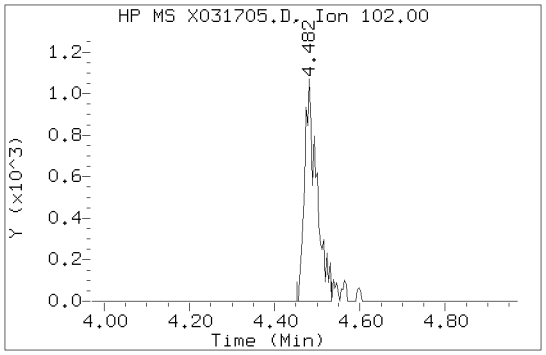

ALS Laboratory Group

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Inj Date : 17-MAR-2023 13:14
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Smp Info : VSTD005;VSTD005;1;5;
Misc Info : V6;WATER;0;1;
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Cal Date : 17-MAR-2023 12:53 Cal File: X031705.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.177	(1.000)	376873	50.0000	
2 Dichlorodifluoromethane	85	0.972	0.972	(0.233)	9602	5.00000	4.40
3 Chloromethane	50	1.077	1.077	(0.258)	15150	5.00000	4.37
4 Propionitrile	54	3.664	3.664	(0.877)	27505	50.0000	51.79(a)
5 Vinyl Chloride	62	1.141	1.141	(0.273)	12393	5.00000	4.17
6 Bromomethane	94	1.340	1.340	(0.321)	8312	5.00000	4.87(M)
7 Chloroethane	64	1.403	1.403	(0.336)	10038	5.00000	4.76(M)
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	13046	5.00000	3.70
9 Acrolein	56	1.441	1.441	(0.345)	1386	10.0000	9.38(a)
10 Acetone	43	1.973	1.973	(0.472)	12577	10.0000	8.21
11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	9752	5.00000	4.30
12 Isobutyl Alcohol	43	4.680	4.680	(1.120)	54306	100.000	105.61(a)
13 Acetonitrile	39	2.202	2.202	(0.527)	16647	50.0000	47.46(a)
14 Allyl Chloride	41	2.202	2.202	(0.527)	43211	5.00000	4.98(a)
15 Iodomethane	142	2.026	2.026	(0.485)	7971	10.0000	12.11(M)
16 Acrylonitrile	53	2.554	2.554	(0.611)	10967	10.0000	8.72
17 Methylene Chloride	84	2.307	2.307	(0.552)	22035	5.00000	4.45
18 Methyl tert-butyl ether	73	2.535	2.535	(0.607)	59748	5.00000	5.01
19 Carbon Disulfide	76	2.067	2.067	(0.495)	69325	10.0000	8.33
20 trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	14825	5.00000	4.64

21 Vinyl Acetate	43	3.004	3.004 (0.719)	101847	10.0000	10.58
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	26914	5.00000	4.65

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.775	1.775	(0.425)	4844	5.00000	4.68(aM)
	24 2-Butanone	43	3.596	3.596	(0.861)	13776	10.0000	10.20(M)
	25 Methacrylonitrile	41	3.833	3.833	(0.917)	17329	5.00000	4.98(a)
	26 2,2-Dichloropropane	77	3.506	3.506	(0.839)	21125	5.00000	4.40(M)
	27 cis-1,2-Dichloroethene	96	3.536	3.536	(0.847)	18351	5.00000	4.75
	28 Chloroform	83	3.907	3.907	(0.935)	31072	5.00000	4.84
	29 Bromochloromethane	128	3.795	3.795	(0.908)	10798	5.00000	4.93
$	30 Dibromofluoromethane	113	4.106	4.106	(0.983)	18353	5.00000	4.53
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	20575	5.00000	4.28
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	19579	5.00000	4.53(M)
	33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	23720	5.00000	4.71
	34 Carbon Tetrachloride	117	4.267	4.267	(0.860)	19275	5.00000	4.66(M)
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.071)	22180	5.00000	6.39
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	605037	50.0000	
	37 Benzene	78	4.515	4.515	(0.909)	67288	5.00000	4.52
	38 Trichloroethene	130	5.212	5.212	(1.050)	17691	5.00000	4.41(a)
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	25204	5.00000	4.77(a)
	40 Methyl Methacrylate	41	5.613	5.613	(1.344)	16729	5.00000	4.97(a)
	41 2-Chloroethylvinyl ether	63	6.055	6.055	(1.220)	15816	10.0000	9.85(a)
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	18732	5.00000	4.67(a)
	43 2-Nitropropane	43	5.973	5.973	(1.430)	5600	5.00000	4.73(aH)
	44 Dibromomethane	93	5.553	5.553	(1.119)	12886	5.00000	5.03
	45 4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	37709	10.0000	10.29
	46 cis-1,3-Dichloropropene	75	6.157	6.157	(1.240)	31549	5.00000	4.72(a)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	578690	50.0000	
$	48 Toluene-d8	98	6.389	6.389	(0.833)	70347	5.00000	4.90(a)
	49 Ethyl Methacrylate	69	6.711	6.711	(1.352)	23861	5.00000	5.35(a)
	50 Toluene	91	6.449	6.449	(0.841)	70931	5.00000	4.67(a)
	51 trans-1,3-Dichloropropene	75	6.685	6.685	(1.347)	26326	5.00000	4.75(a)
	52 2-Hexanone	43	7.094	7.094	(0.925)	25496	10.0000	10.14
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	16600	5.00000	5.02
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	32551	5.00000	4.96(a)
	55 Dibromochloromethane	129	7.176	7.176	(0.936)	22139	5.00000	4.74(a)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	12717	5.00000	4.17(a)
	57 1,2-Dibromoethane	107	7.263	7.263	(0.947)	20691	5.00000	5.07
	58 1-Chlorohexane	55	7.697	7.697	(1.550)	10247	5.00000	5.62
	59 Chlorobenzene	112	7.694	7.694	(1.003)	51496	5.00000	4.74(a)
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	19284	5.00000	4.61(a)
	61 Ethylbenzene	106	7.802	7.802	(1.018)	23242	5.00000	4.35(a)
	62 m,p-Xylenes	106	7.907	7.907	(1.031)	58404	10.0000	8.69(a)
	63 o-Xylene	106	8.245	8.245	(1.075)	31125	5.00000	4.60(a)
	64 Styrene	104	8.267	8.267	(1.078)	52448	5.00000	4.70(a)
	66 Bromoform	173	8.413	8.413	(1.097)	15137	5.00000	4.69(a)
	67 Isopropylbenzene	105	8.563	8.563	(1.117)	65035	5.00000	4.20(a)
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	28771	5.00000	5.12
$	69 4-Bromofluorobenzene	95	8.695	8.695	(1.134)	32222	5.00000	5.72
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	322470	50.0000	
	71 1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	20798	5.00000	4.92(a)
	72 trans-1,4-Dichloro-2-butene	53	8.897	8.897	(1.160)	5471	5.00000	4.73(a)
	73 n-Propylbenzene	91	8.916	8.916	(0.923)	72647	5.00000	4.05(a)
	74 Bromobenzene	156	8.811	8.811	(0.912)	24742	5.00000	4.77(a)
	75 1,3,5-Trimethylbenzene	105	9.069	9.069	(0.939)	59046	5.00000	4.24(a)

76	2-Chlorotoluene	91	8.976	8.976 (0.929)	56383	5.00000	4.67(a)
77	4-Chlorotoluene	91	9.073	9.073 (0.939)	62362	5.00000	4.59(a)

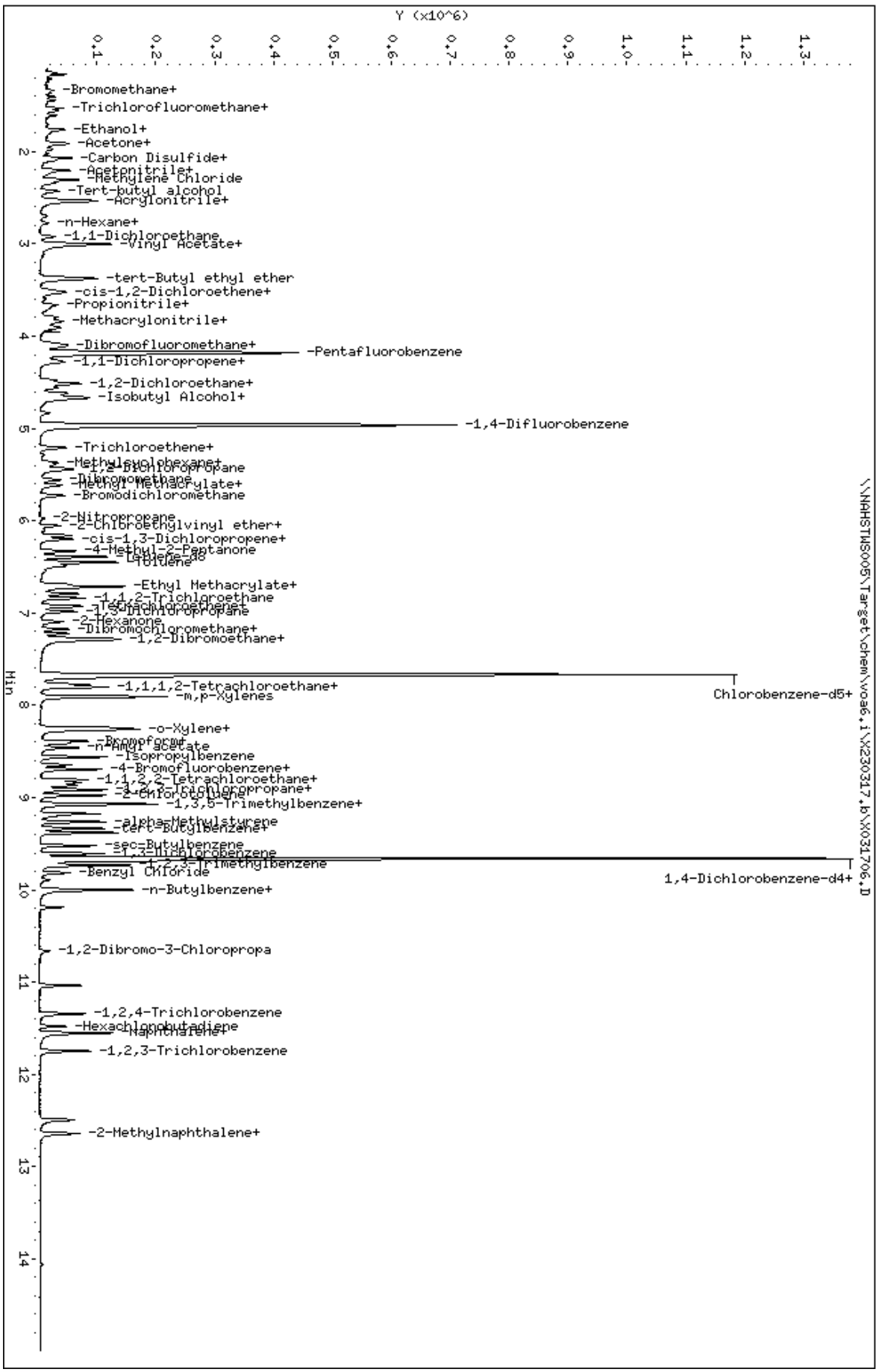
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	44588	5.00000	4.02(a)
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	62250	5.00000	4.36(a)
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	55893	5.00000	3.72(a)
82	p-Isopropyltoluene	119	9.650	9.650	(0.999)	53227	5.00000	3.97(a)
83	1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	40801	5.00000	4.55(a)
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	45850	5.00000	4.75(a)
86	Benzyl Chloride	91	9.812	9.812	(1.280)	37307	5.00000	5.48(M)
87	n-Butylbenzene	91	9.999	9.999	(1.035)	41738	5.00000	3.86(a)
88	1,2-Dichlorobenzene	146	9.995	9.995	(1.035)	41157	5.00000	4.58(a)
89	1,2-Dibromo-3-Chloropropane	155	10.666	10.666	(1.104)	4699	5.00000	5.88
90	1,2,4-Trichlorobenzene	180	11.341	11.341	(1.174)	28955	5.00000	4.41(aM)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	7780	5.00000	4.88(a)
92	Naphthalene	128	11.551	11.551	(1.196)	74713	5.00000	4.74(a)
93	1,2,3-Trichlorobenzene	180	11.746	11.746	(1.216)	28620	5.00000	4.56(a)
146	Methyl acetate	43	2.239	2.239	(0.536)	11068	5.00000	5.10
138	Freon TF	101	1.913	1.913	(0.458)	6618	5.00000	4.41(a)
141	Cyclohexane	56	4.117	4.117	(0.986)	11367	5.00000	4.58(a)
142	Tetrahydrofuran	42	3.851	3.851	(0.922)	6657	10.0000	10.81
147	Methylcyclohexane	55	5.396	5.396	(1.087)	33923	5.00000	4.06(aM)
135	1,4-Dioxane	88	5.606	5.606	(1.342)	5347	100.000	106.92
132	n-Butanol	56	5.287	5.287	(1.266)	6157	100.000	92.87(a)
131	Methyl Acrylate	55	3.709	3.709	(0.888)	19084	5.00000	4.88(aM)
133	Ethyl Acrylate	55	5.396	5.396	(1.292)	32422	5.00000	3.94(M)
136	n-Hexane	57	2.775	2.775	(0.664)	5476	5.00000	2.82(aM)
139	Diethyl ether	59	1.760	1.760	(0.421)	12349	5.00000	4.89(aM)
148	Tert-butyl alcohol	59	2.431	2.431	(0.582)	40924	100.000	103.69
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	22330	100.000	105.88(T)
156	Diisopropyl ether	45	3.000	3.000	(0.718)	58483	5.00000	4.99(Ta)
160	2-Methylnaphthalene	142	12.642	12.642	(1.308)	34409	5.00000	4.42
166	1,2,3-Trimethylbenzene	105	9.733	9.733	(1.007)	71266	5.00000	4.60(a)
167	Ethanol	45	1.700	1.700	(0.407)	3738	100.000	110.59
172	tert-Butyl formate	59	4.620	4.620	(1.106)	30990	10.0000	10.09(M)
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	42905	100.000	96.21(M)
174	tert-Amyl methyl ether	73	4.665	4.665	(1.117)	70640	5.00000	5.23
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.808)	62777	5.00000	5.12
176	tert-Amyl alcohol	59	4.620	4.620	(1.106)	32276	100.000	100.07(M)
151	4-Methyl-2-pentanol	45	6.715	6.715	(1.353)	90297	100.000	102.24(M)
180	1-Methylnaphthalene	142	12.642	12.642	(1.308)	34409	5.00000	(a)
140	1,3-Butadiene	54	1.163	1.163	(0.279)	10056	5.00000	3.93(a)
152	Amyl alcohol	42	6.925	6.925	(0.903)	9340	100.000	89.55
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	22490	5.00000	4.81(M)
159	Propylene oxide	43	1.805	1.805	(0.432)	2716	10.0000	11.55
161	3-Methyl-1-butanol	55	6.918	6.918	(0.902)	9604	100.000	95.09(M)
162	Butyl acrylate	55	8.256	8.256	(1.077)	38847	5.00000	4.54(a)
182	Epichlorohydrin	57	6.104	6.104	(1.230)	6493	20.0000	18.81
M 94	1,2-Dichloroethylene (total)	96				33176	10.0000	(a)
130	Ethyl Acetate	43	3.664	3.664	(0.877)	21420	5.00000	5.50
134	Cyclohexanone	55	8.646	8.646	(0.895)	19881	100.000	103.80(a)
185	Isoprene	39	1.771	1.771	(0.424)	3330	5.00000	4.60(a)
188	Isopropyl acetate	43	4.680	4.680	(0.943)	55812	5.00000	5.09
187	n-Amyl acetate	43	8.458	8.458	(1.103)	37411	5.00000	5.20
189	n-Butyl acetate	43	7.218	7.218	(0.941)	30448	5.00000	4.96(aH)

150 Allyl alcohol	57	2.775	2.775 (0.664)	7188	100.000	71.11(M)
194 Acetaldehyde	44	1.208	1.208 (0.289)	4487	20.0000	19.21(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
195 Methyl Amyl Ketone	43	8.387	8.387	(1.094)	44574	5.00000	4.87(a)
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	32499	5.00000	4.28(a)
202 Isobutylene	41	1.238	1.238	(0.297)	1462	5.00000	4.66(aM)
205 2-Ethylhexyl Acrylate	55	11.555	11.555	(1.196)	18783	5.00000	3.94(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5;
Purge Volume: 5.0
Column phase: DB624

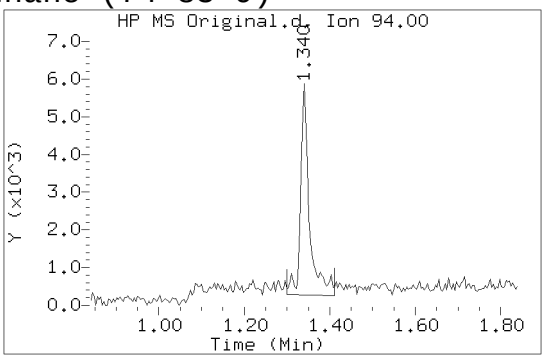
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031706.D
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Bromomethane (74-83-9)

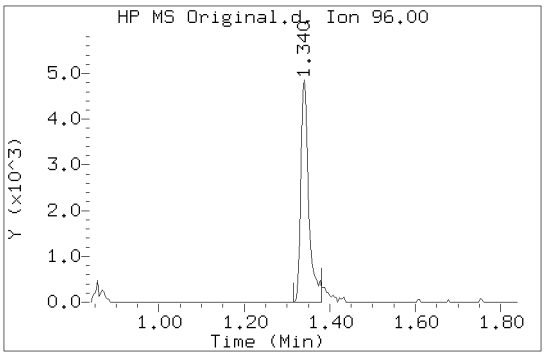
BEFORE

MASS
94
AREA
8312
HEIGHT
5599
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
96
AREA
6541
HEIGHT
4858
21-Mar-2023
10:17
linh
pham



Reason Code:

AFTER

MASS
94
AREA
8312
HEIGHT
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21-Mar-2023
10:17
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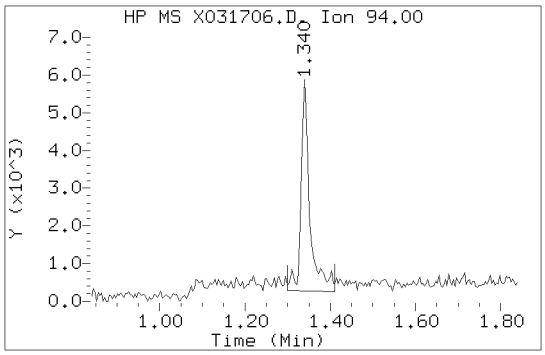
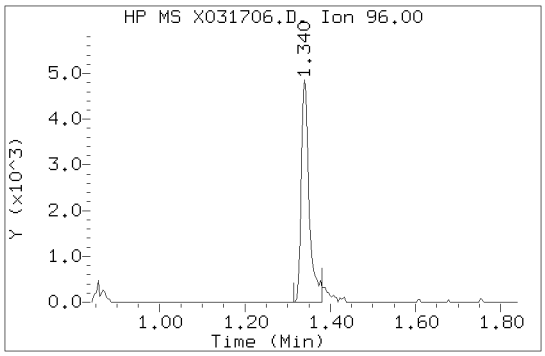
pham



AFTER

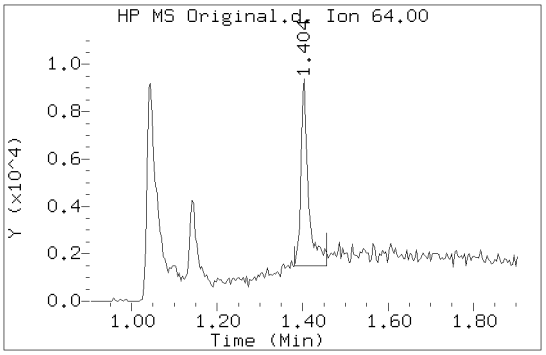
MASS
96
AREA
6541
HEIGHT
4858
21-Mar-2023
10:17
linh
pham



Chloroethane (75-00-3)

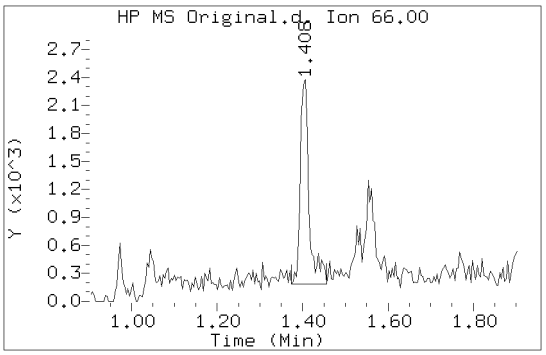
BEFORE

MASS
64
AREA
10038
HEIGHT
7902
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
66
AREA
3257
HEIGHT
2194
21-Mar-2023
10:17
linh
pham



Reason Code:

AFTER

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64
AREA
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HEIGHT
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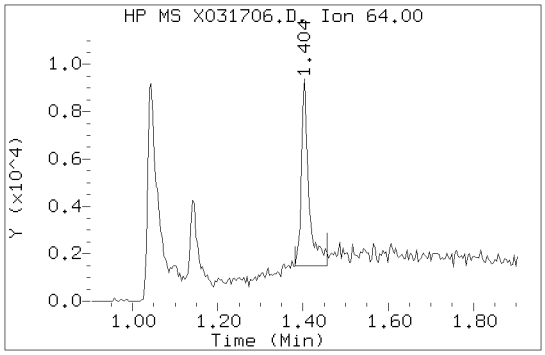
pham



AFTER

MASS
66
AREA
3257
HEIGHT
2194
21-Mar-2023
10:17
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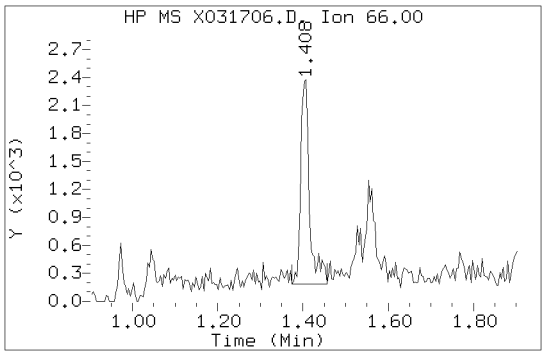
pham



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Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Iodomethane (74-88-4)

Reason Code:

BEFORE

MASS
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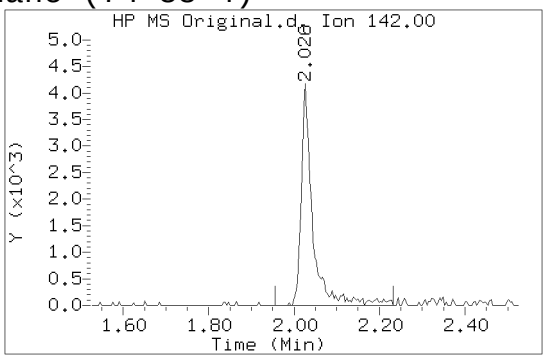
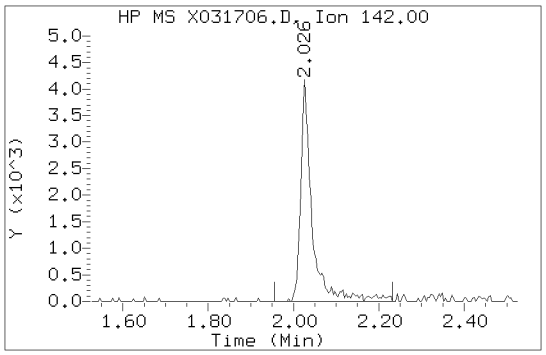
AREA
7971
HEIGHT
4175
21-Mar-2023
10:17
linh
pham



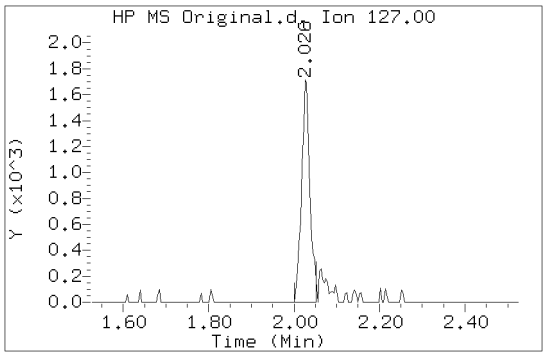
AFTER

MASS
142
AREA
7971
HEIGHT
4175
21-Mar-2023
10:17
linh
pham



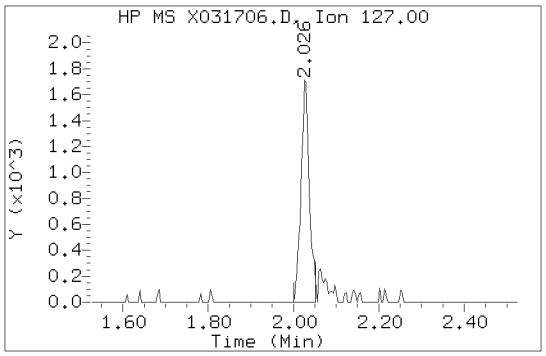
BEFORE

MASS
127
AREA
2404
HEIGHT
1714
21-Mar-2023
10:17
linh
pham



AFTER

MASS
127
AREA
2404
HEIGHT
1714
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
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AREA
906
HEIGHT
523
21-Mar-2023
10:17
linh
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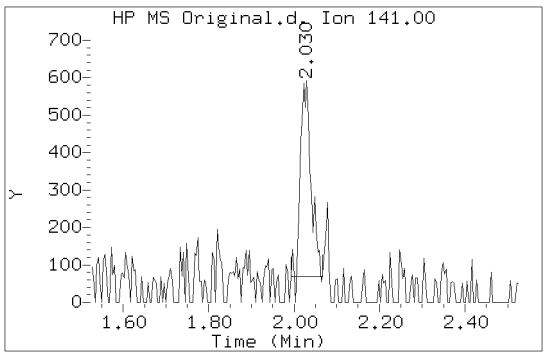

AFTER

MASS
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AREA
906
HEIGHT
523
21-Mar-2023
10:17
linh
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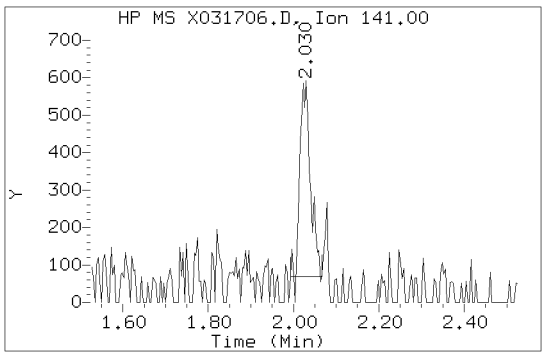

2-Butanone (78-93-3)

Reason Code:

BEFORE

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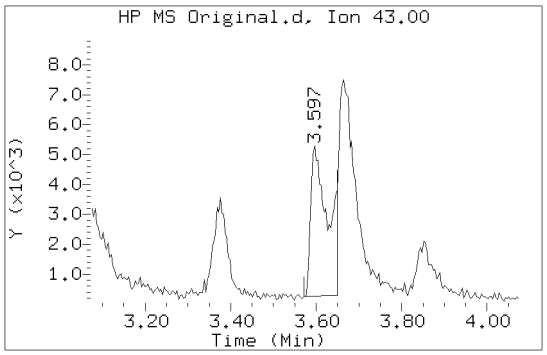
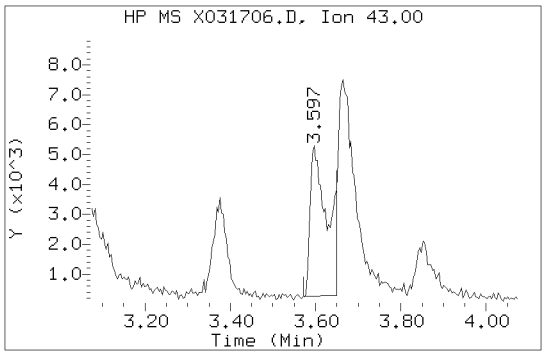
AREA
13776
HEIGHT
5026
21-Mar-2023
10:17
linh
pham



AFTER

MASS
43
AREA
13776
HEIGHT
5026
21-Mar-2023
10:17
linh
pham



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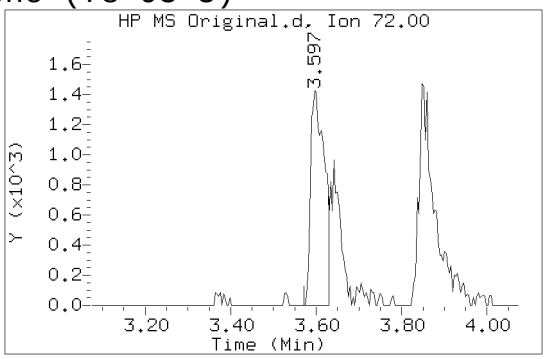
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

2-Butanone (78-93-3)

Reason Code:

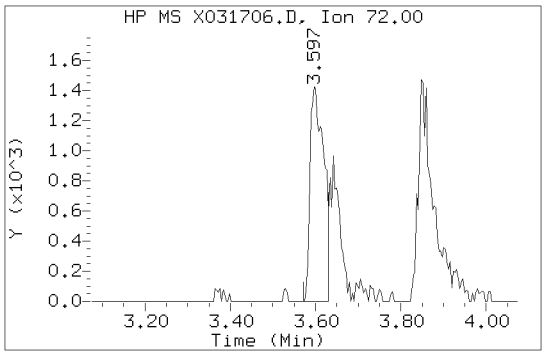
BEFORE

MASS
72
AREA
3197
HEIGHT
1426
21-Mar-2023
10:17
linh
pham



AFTER

MASS
72
AREA
3197
HEIGHT
1426
21-Mar-2023
10:17
linh
pham



2,2-Dichloropropane (594-20-7)

Reason Code:

BEFORE

MASS
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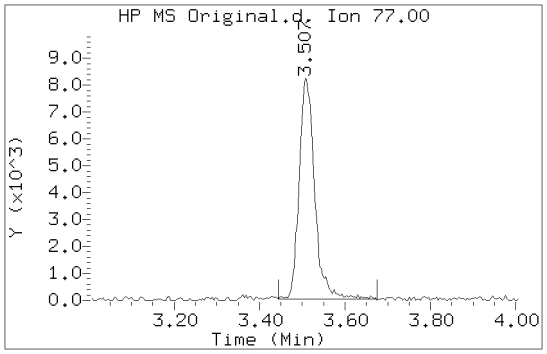
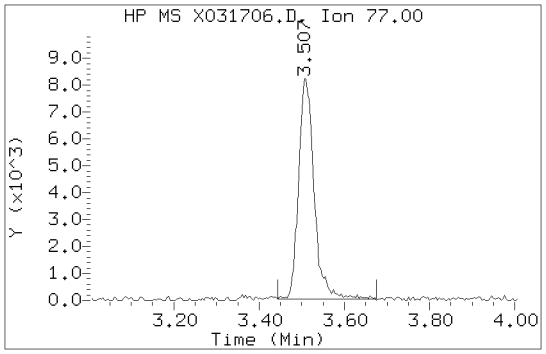
AREA
21125
HEIGHT
8195
21-Mar-2023
10:17
linh
pham



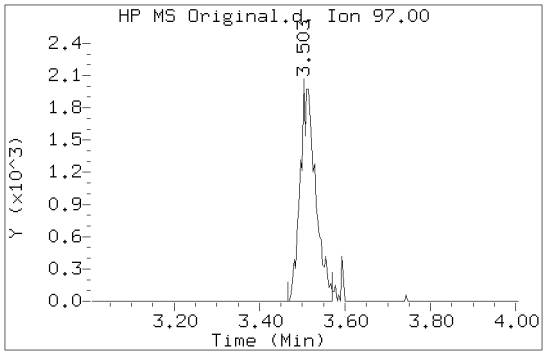
AFTER

MASS
77
AREA
21125
HEIGHT
8195
21-Mar-2023
10:17
linh
pham



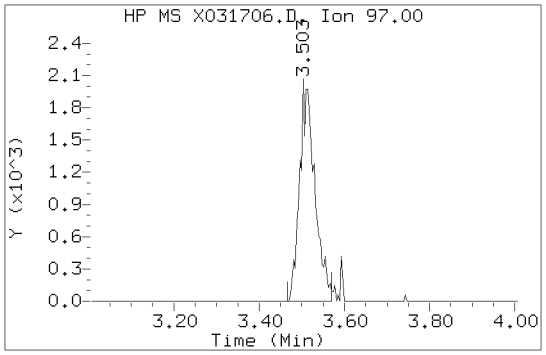
BEFORE

MASS
97
AREA
5143
HEIGHT
2069
21-Mar-2023
10:17
linh
pham



AFTER

MASS
97
AREA
5143
HEIGHT
2069
21-Mar-2023
10:17
linh
pham

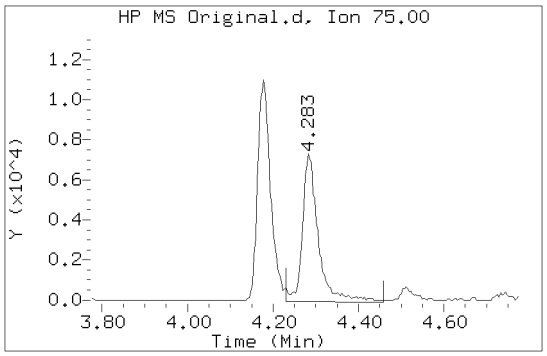


1,1-Dichloropropene (563-58-6)

Reason Code:

BEFORE

MASS
75
AREA
19579
HEIGHT
7385
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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AREA
19579
HEIGHT
7385
21-Mar-2023
10:17
linh
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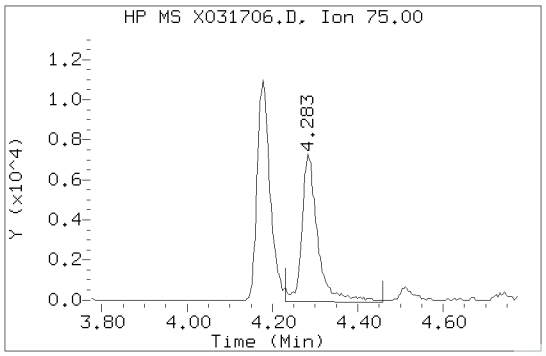


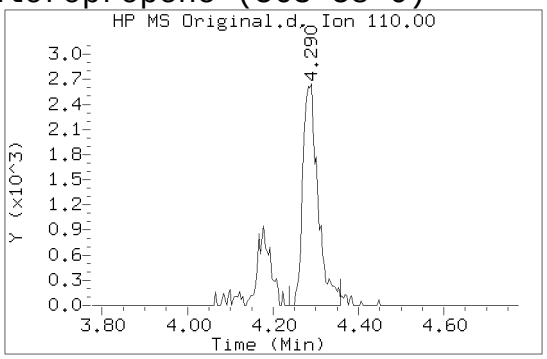
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031706.D
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

1,1-Dichloropropene (563-58-6)

Reason Code:

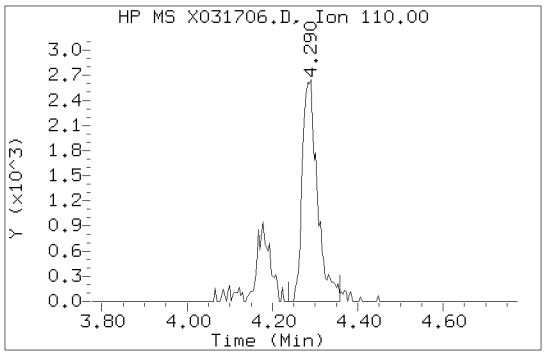
BEFORE

MASS
110
AREA
6613
HEIGHT
2648
21-Mar-2023
10:17
linh
pham



AFTER

MASS
110
AREA
6613
HEIGHT
2648
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
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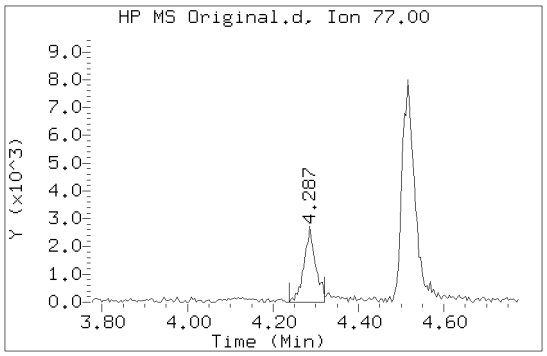
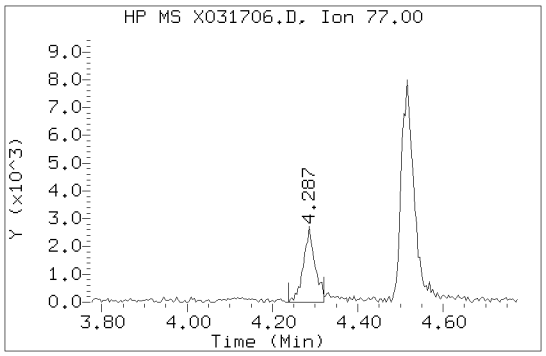
AREA
5175
HEIGHT
2721
21-Mar-2023
10:17
linh
pham



AFTER

MASS
77
AREA
5175
HEIGHT
2721
21-Mar-2023
10:17
linh
pham

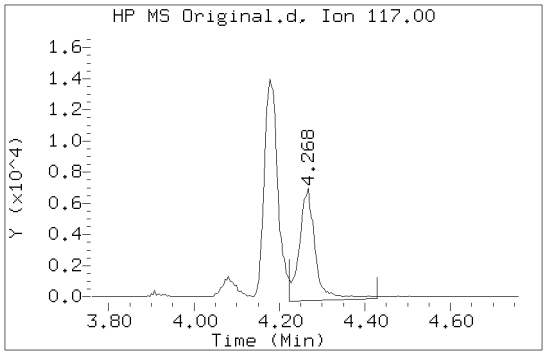


Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE

MASS
117
AREA
19275
HEIGHT
7216
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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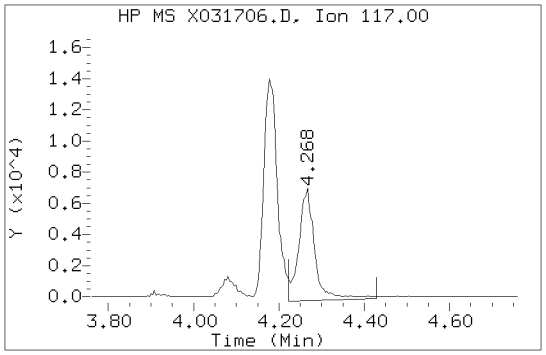
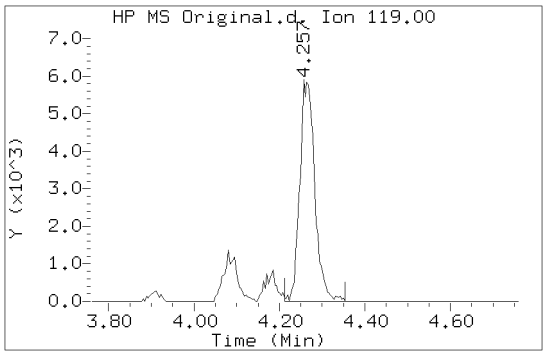
AREA
19275
HEIGHT
7216
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
119
AREA
14616
HEIGHT
5908
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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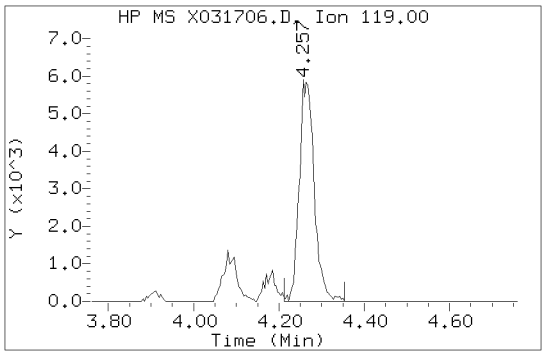
AREA
14616
HEIGHT
5908
21-Mar-2023
10:17
linh
pham



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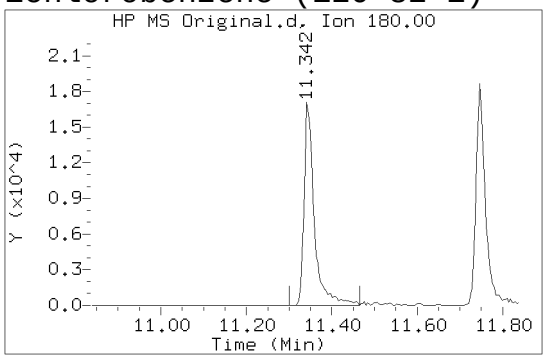
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

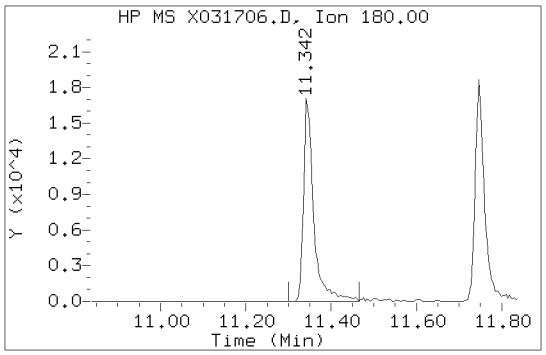
BEFORE

MASS
180
AREA
28955
HEIGHT
17112
21-Mar-2023
10:17
linh
pham



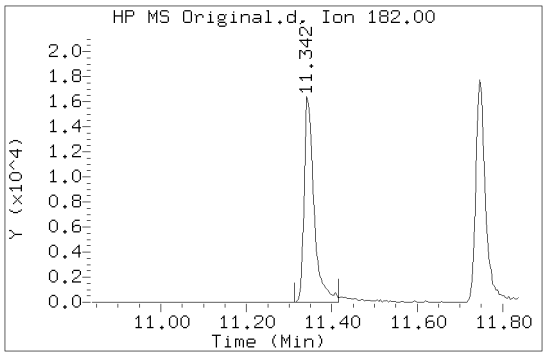
AFTER

MASS
180
AREA
28955
HEIGHT
17112
21-Mar-2023
10:17
linh
pham



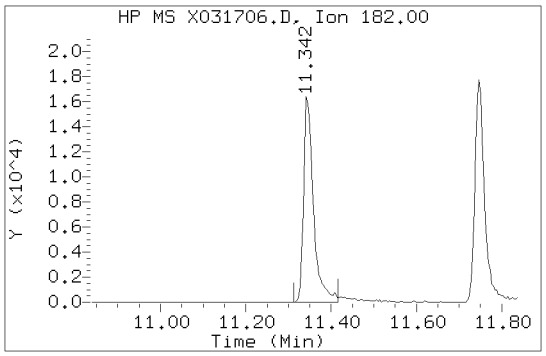
BEFORE

MASS
182
AREA
27031
HEIGHT
16424
21-Mar-2023
10:17
linh
pham



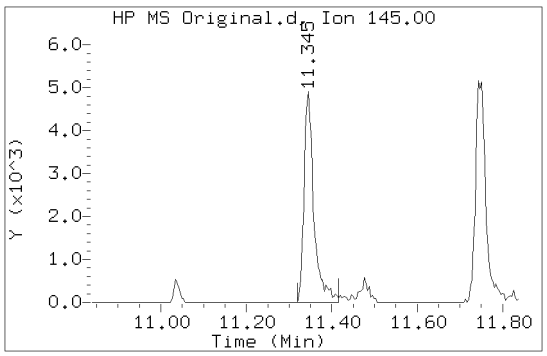
AFTER

MASS
182
AREA
27031
HEIGHT
16424
21-Mar-2023
10:17
linh
pham



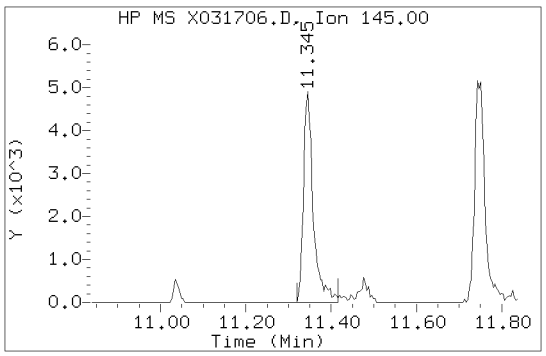
BEFORE

MASS
145
AREA
8041
HEIGHT
4909
21-Mar-2023
10:17
linh
pham



AFTER

MASS
145
AREA
8041
HEIGHT
4909
21-Mar-2023
10:17
linh
pham

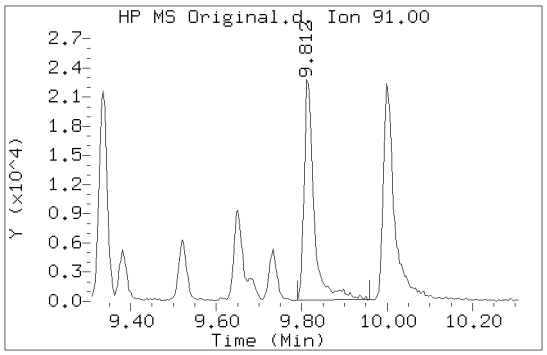


Benzyl Chloride (100-44-7)

Reason Code:

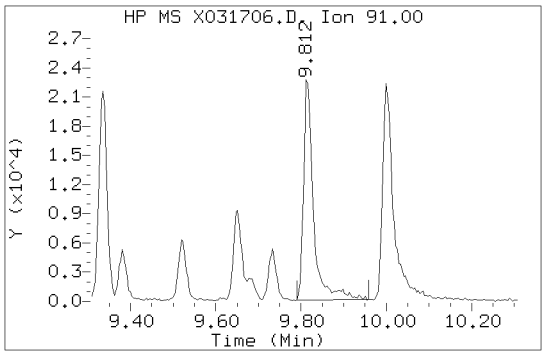
BEFORE

MASS
91
AREA
37307
HEIGHT
22649
21-Mar-2023
10:17
linh
pham



AFTER

MASS
91
AREA
37307
HEIGHT
22649
21-Mar-2023
10:17
linh
pham



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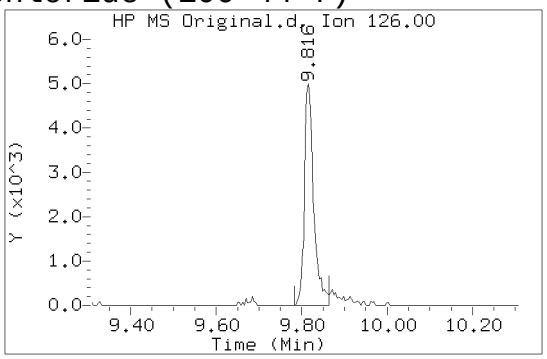
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

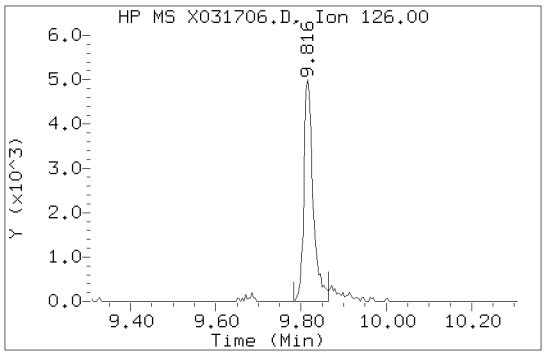
Benzyl Chloride (100-44-7)

Reason Code:

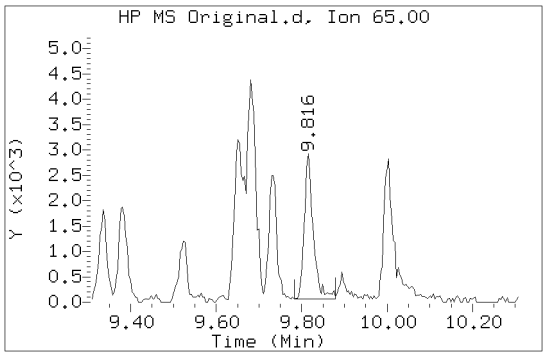
BEFORE
MASS
126
AREA
7737
HEIGHT
5001
21-Mar-2023
10:17
linh
pham



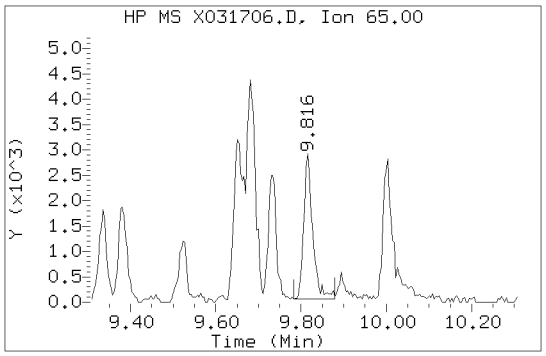
AFTER
MASS
126
AREA
7737
HEIGHT
5001
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
65
AREA
4286
HEIGHT
2873
21-Mar-2023
10:17
linh
pham



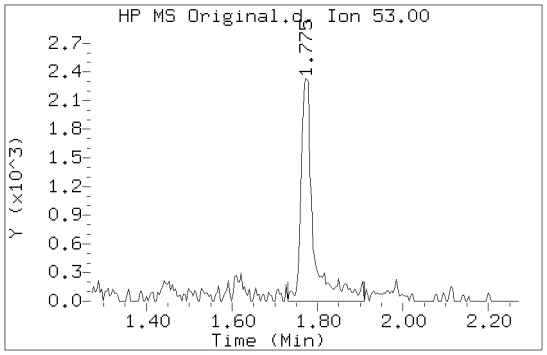
AFTER
MASS
65
AREA
4286
HEIGHT
2873
21-Mar-2023
10:17
linh
pham



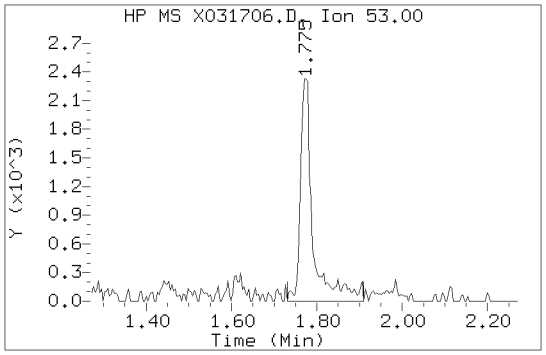
Chloroprene (126-99-8)

Reason Code:

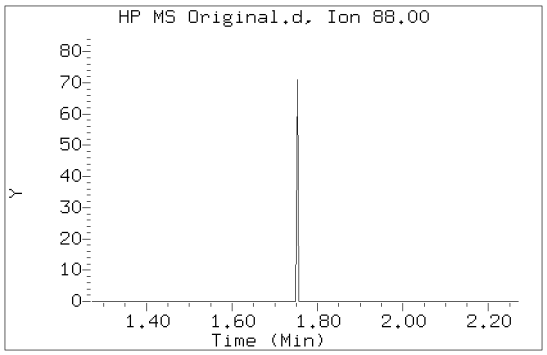
BEFORE
MASS
53
AREA
4844
HEIGHT
2327
21-Mar-2023
10:17
linh
pham



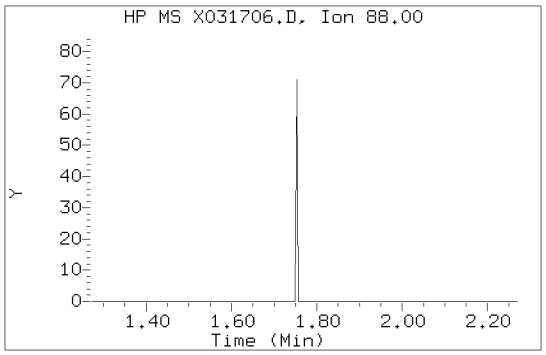
AFTER
MASS
53
AREA
4844
HEIGHT
2327
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER
MASS
88
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



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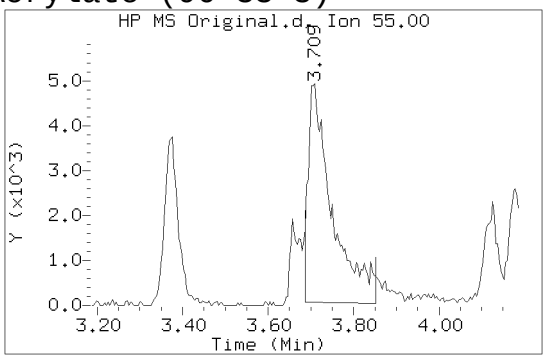
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Methyl Acrylate (96-33-3)

Reason Code:

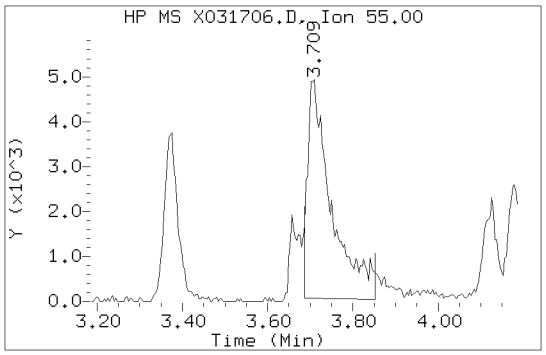
BEFORE

MASS
55
AREA
19084
HEIGHT
4863
21-Mar-2023
10:17
linh
pham



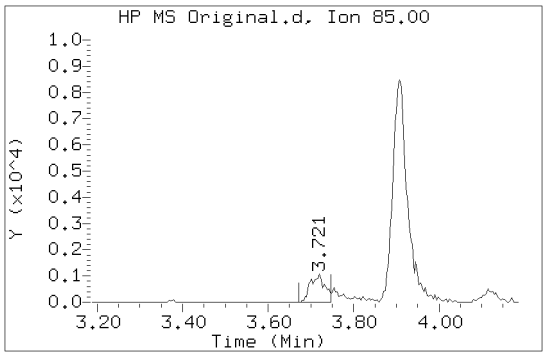
AFTER

MASS
55
AREA
19084
HEIGHT
4863
21-Mar-2023
10:17
linh
pham



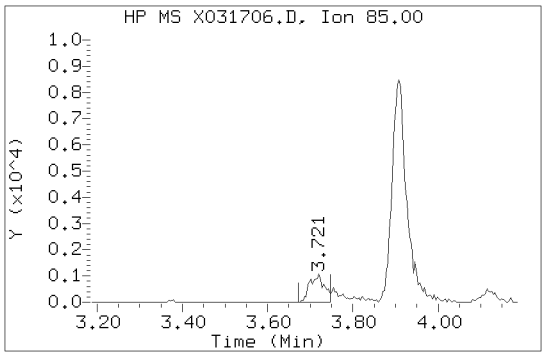
BEFORE

MASS
85
AREA
2528
HEIGHT
1090
21-Mar-2023
10:17
linh
pham



AFTER

MASS
85
AREA
2528
HEIGHT
1090
21-Mar-2023
10:17
linh
pham

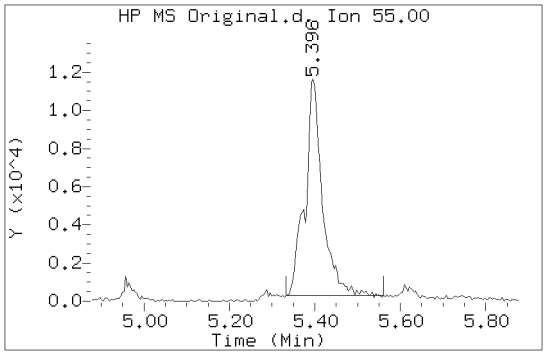


Ethyl Acrylate (140-88-5)

Reason Code:

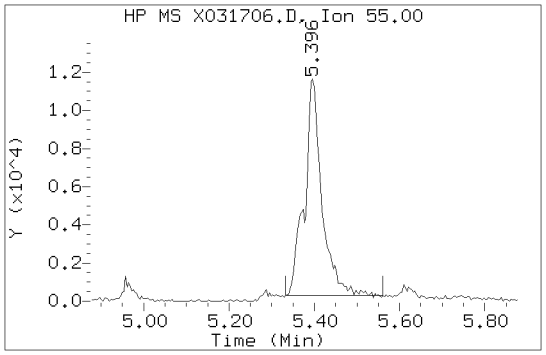
BEFORE

MASS
55
AREA
32422
HEIGHT
11347
21-Mar-2023
10:17
linh
pham



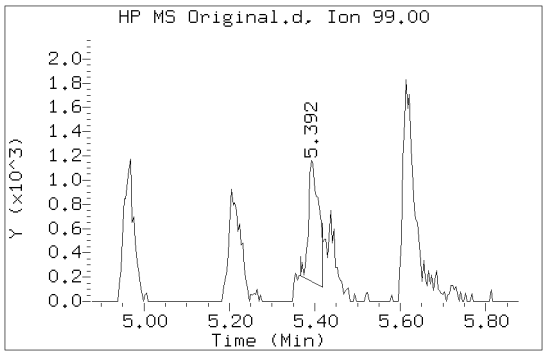
AFTER

MASS
55
AREA
32422
HEIGHT
11347
21-Mar-2023
10:17
linh
pham



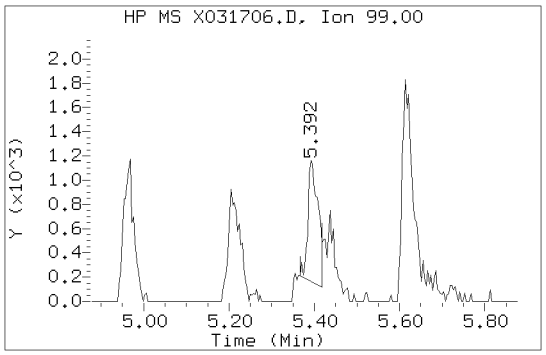
BEFORE

MASS
99
AREA
1678
HEIGHT
997
21-Mar-2023
10:17
linh
pham



AFTER

MASS
99
AREA
1678
HEIGHT
997
21-Mar-2023
10:17
linh
pham



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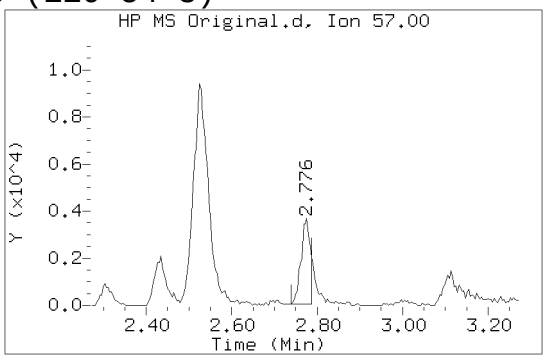
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

n-Hexane (110-54-3)

Reason Code:

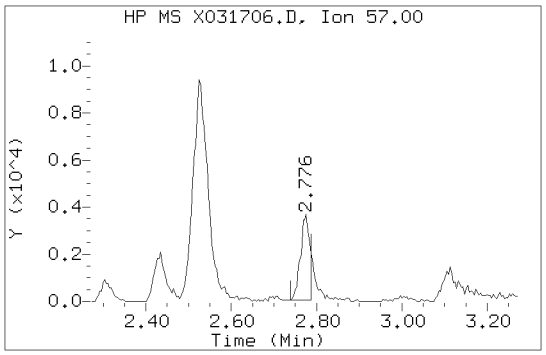
BEFORE

MASS
57
AREA
5476
HEIGHT
3646
21-Mar-2023
10:17
linh
pham



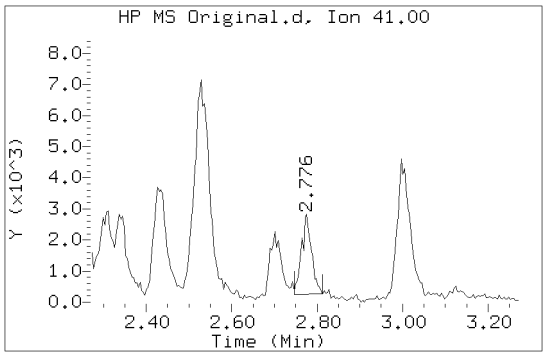
AFTER

MASS
57
AREA
5476
HEIGHT
3646
21-Mar-2023
10:17
linh
pham



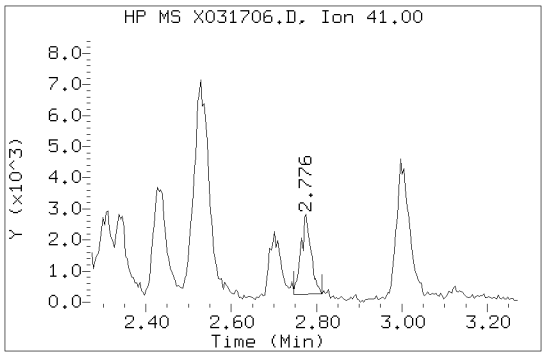
BEFORE

MASS
41
AREA
4280
HEIGHT
2559
21-Mar-2023
10:17
linh
pham



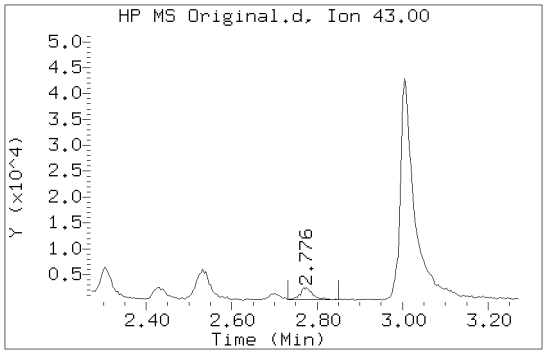
AFTER

MASS
41
AREA
4280
HEIGHT
2559
21-Mar-2023
10:17
linh
pham



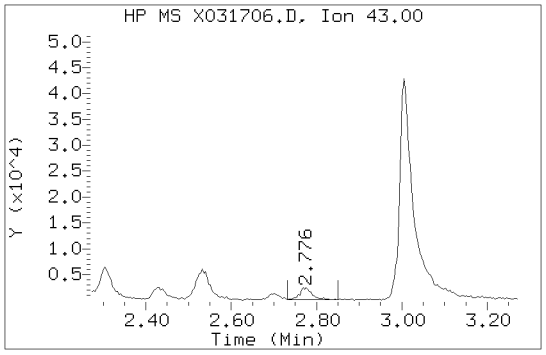
BEFORE

MASS
43
AREA
5026
HEIGHT
2432
21-Mar-2023
10:17
linh
pham



AFTER

MASS
43
AREA
5026
HEIGHT
2432
21-Mar-2023
10:17
linh
pham

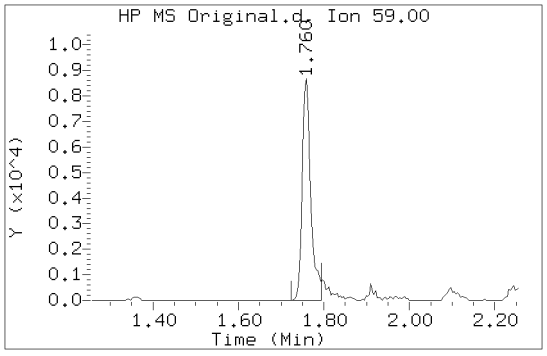


Diethyl ether (60-29-7)

Reason Code:

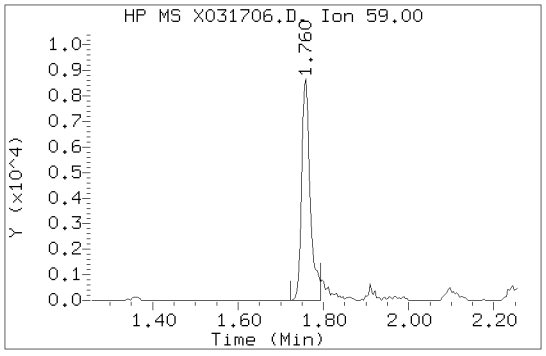
BEFORE

MASS
59
AREA
12349
HEIGHT
8678
21-Mar-2023
10:17
linh
pham



AFTER

MASS
59
AREA
12349
HEIGHT
8678
21-Mar-2023
10:17
linh
pham



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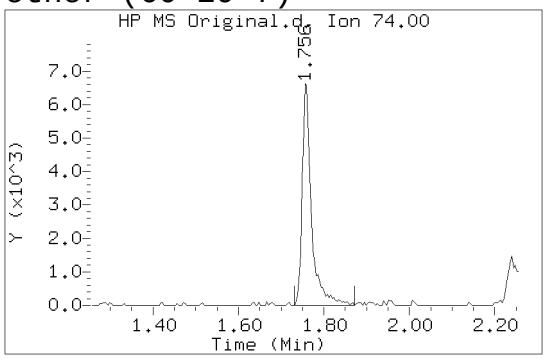
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Diethyl ether (60-29-7)

Reason Code:

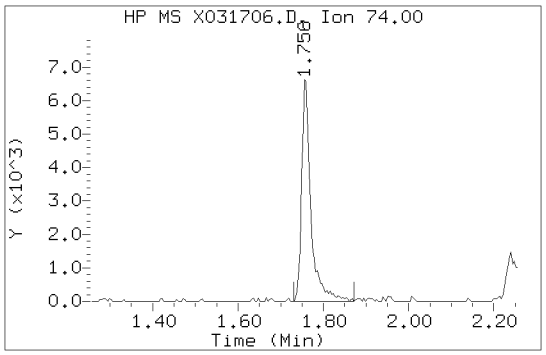
BEFORE

MASS
74
AREA
10195
HEIGHT
6625
21-Mar-2023
10:17
linh
pham



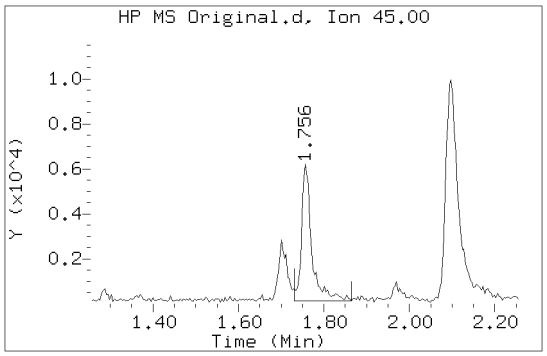
AFTER

MASS
74
AREA
10195
HEIGHT
6625
21-Mar-2023
10:17
linh
pham



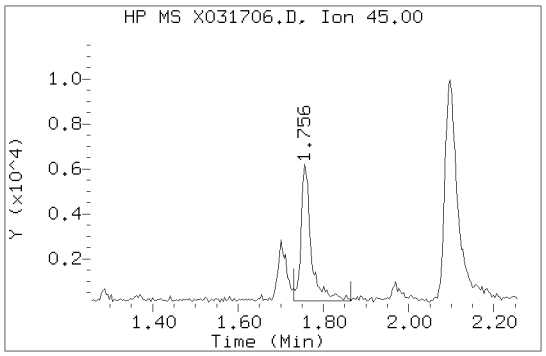
BEFORE

MASS
45
AREA
10306
HEIGHT
6079
21-Mar-2023
10:17
linh
pham



AFTER

MASS
45
AREA
10306
HEIGHT
6079
21-Mar-2023
10:17
linh
pham

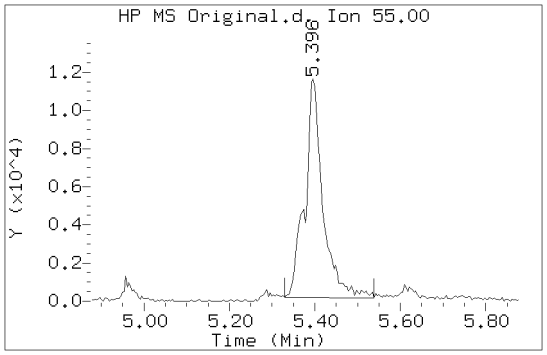


Methylcyclohexane (108-87-2)

Reason Code:

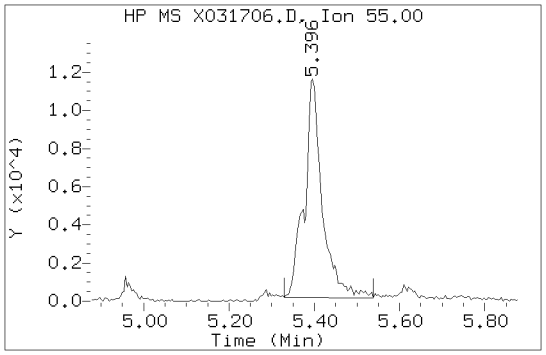
BEFORE

MASS
55
AREA
33923
HEIGHT
11464
21-Mar-2023
10:17
linh
pham



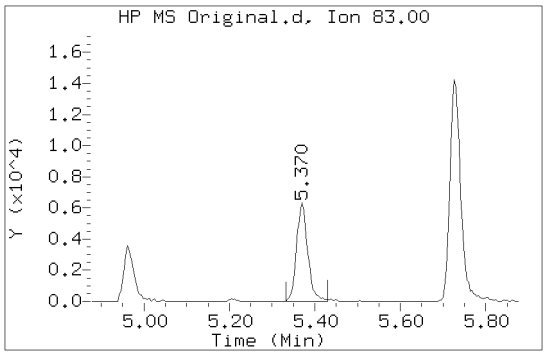
AFTER

MASS
55
AREA
33923
HEIGHT
11464
21-Mar-2023
10:17
linh
pham



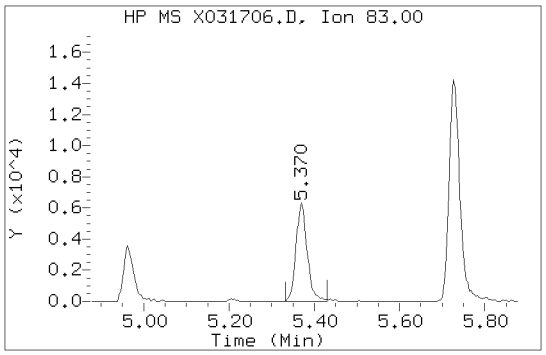
BEFORE

MASS
83
AREA
11711
HEIGHT
6349
21-Mar-2023
10:17
linh
pham



AFTER

MASS
83
AREA
11711
HEIGHT
6349
21-Mar-2023
10:17
linh
pham



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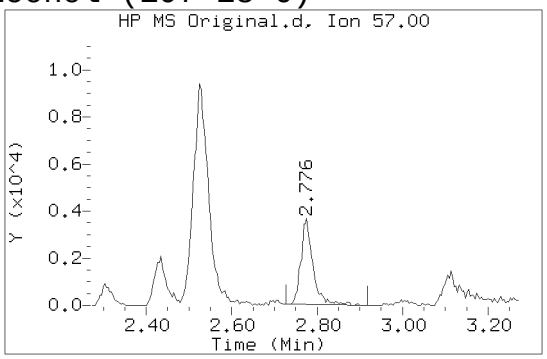
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Allyl alcohol (107-18-6)

Reason Code:

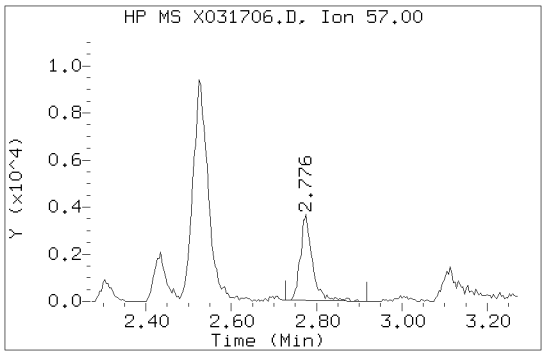
BEFORE

MASS
57
AREA
7188
HEIGHT
3660
21-Mar-2023
10:17
linh
pham



AFTER

MASS
57
AREA
7188
HEIGHT
3660
21-Mar-2023
10:17
linh
pham

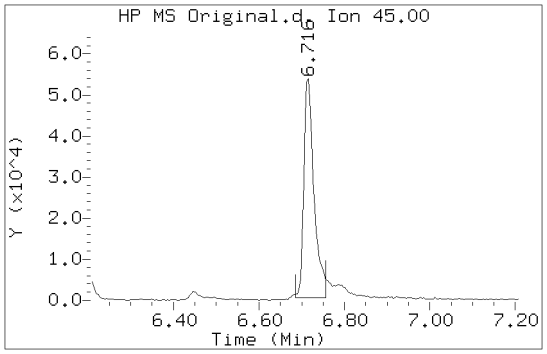


4-Methyl-2-pentanol (108-11-2)

Reason Code:

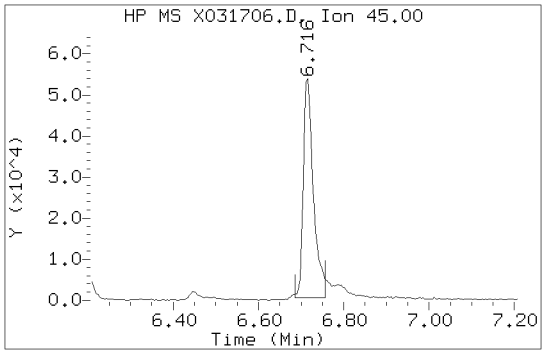
BEFORE

MASS
45
AREA
90297
HEIGHT
53312
21-Mar-2023
10:17
linh
pham



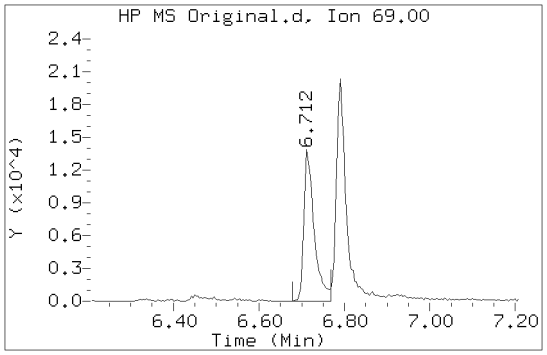
AFTER

MASS
45
AREA
90297
HEIGHT
53312
21-Mar-2023
10:17
linh
pham



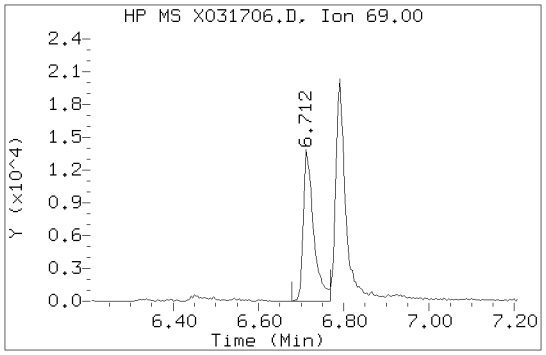
BEFORE

MASS
69
AREA
23861
HEIGHT
13912
21-Mar-2023
10:17
linh
pham



AFTER

MASS
69
AREA
23861
HEIGHT
13912
21-Mar-2023
10:17
linh
pham

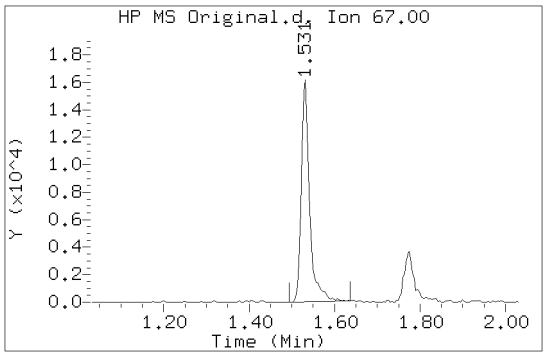


Dichlorofluoromethane (75-43-4)

Reason Code:

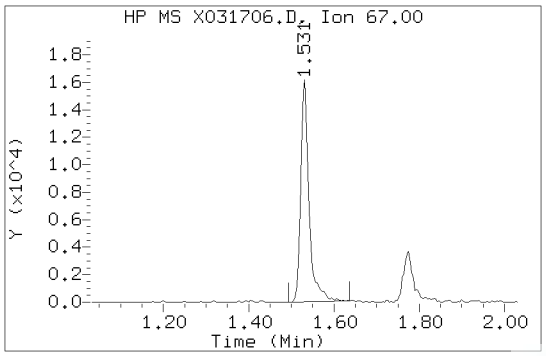
BEFORE

MASS
67
AREA
22490
HEIGHT
16149
21-Mar-2023
10:17
linh
pham



AFTER

MASS
67
AREA
22490
HEIGHT
16149
21-Mar-2023
10:17
linh
pham



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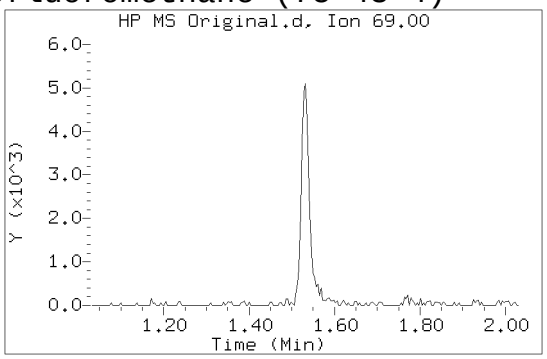
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

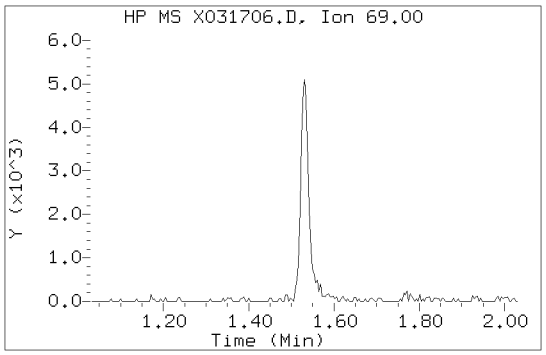
Dichlorofluoromethane (75-43-4)

Reason Code:

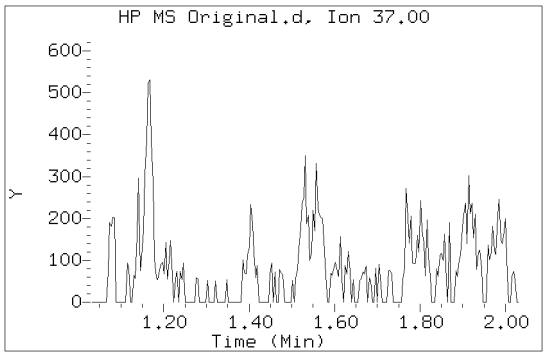
BEFORE
MASS
69
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



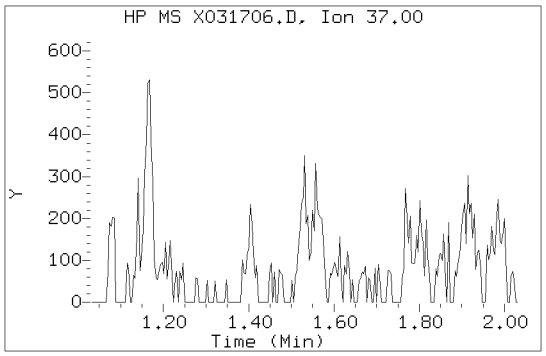
AFTER
MASS
69
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
37
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



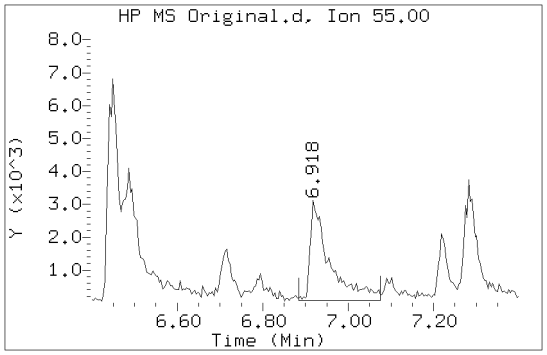
AFTER
MASS
37
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



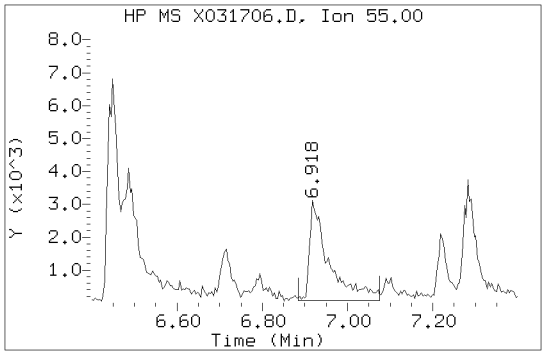
3-Methyl-1-butanol (123-51-3)

Reason Code:

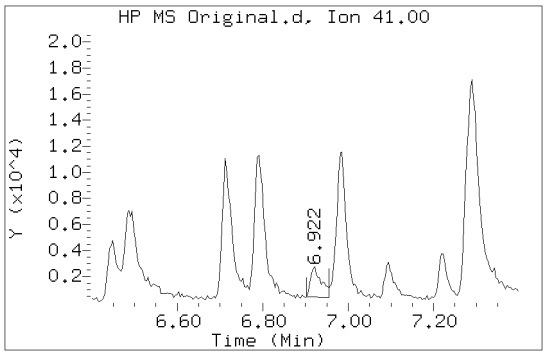
BEFORE
MASS
55
AREA
9604
HEIGHT
3048
21-Mar-2023
10:17
linh
pham



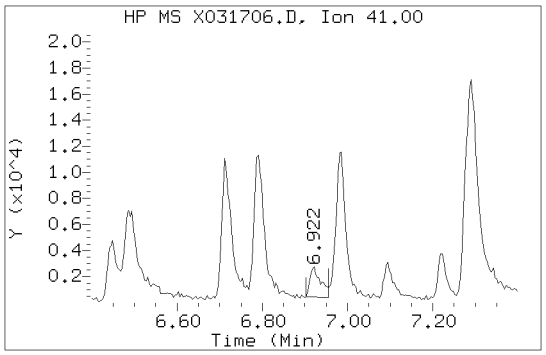
AFTER
MASS
55
AREA
9604
HEIGHT
3048
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
41
AREA
4154
HEIGHT
2341
21-Mar-2023
10:17
linh
pham



AFTER
MASS
41
AREA
4154
HEIGHT
2341
21-Mar-2023
10:17
linh
pham



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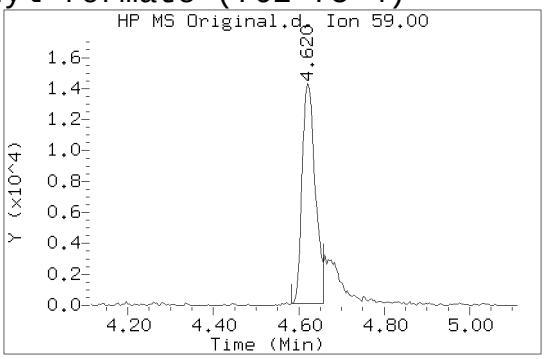
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

tert-Butyl formate (762-75-4)

Reason Code:

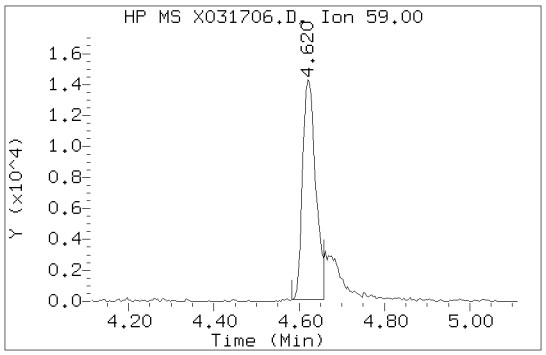
BEFORE

MASS
59
AREA
30990
HEIGHT
14207
21-Mar-2023
10:17
linh
pham



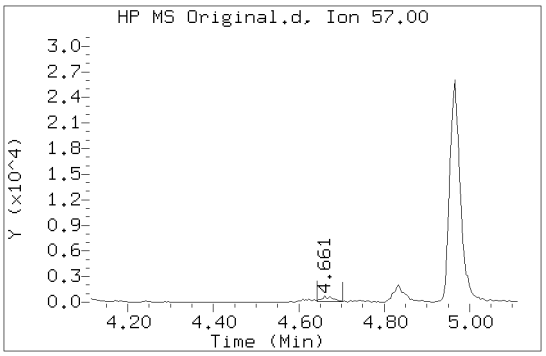
AFTER

MASS
59
AREA
30990
HEIGHT
14207
21-Mar-2023
10:17
linh
pham



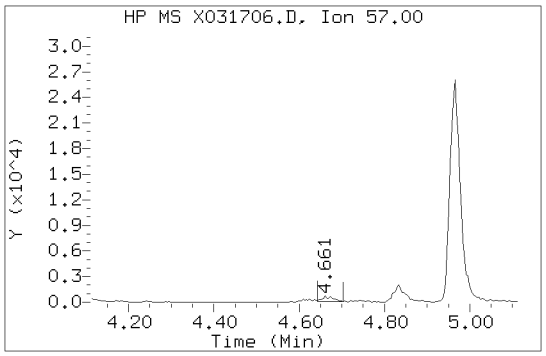
BEFORE

MASS
57
AREA
1147
HEIGHT
668
21-Mar-2023
10:17
linh
pham



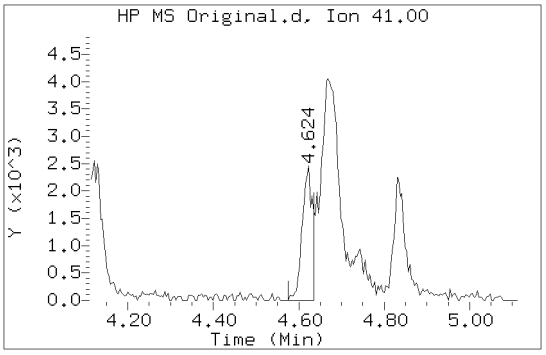
AFTER

MASS
57
AREA
1147
HEIGHT
668
21-Mar-2023
10:17
linh
pham



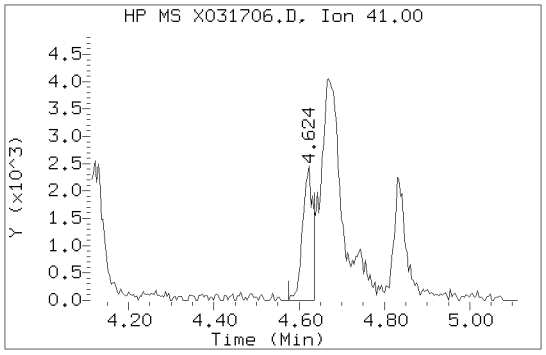
BEFORE

MASS
41
AREA
4108
HEIGHT
2464
21-Mar-2023
10:17
linh
pham



AFTER

MASS
41
AREA
4108
HEIGHT
2464
21-Mar-2023
10:17
linh
pham

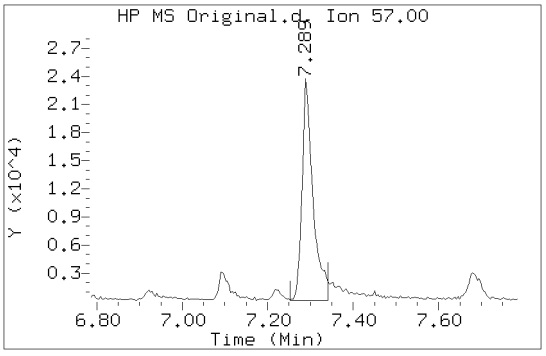


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

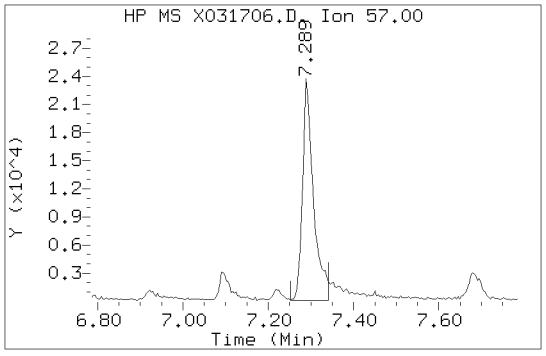
BEFORE

MASS
57
AREA
42905
HEIGHT
23667
21-Mar-2023
10:17
linh
pham



AFTER

MASS
57
AREA
42905
HEIGHT
23667
21-Mar-2023
10:17
linh
pham



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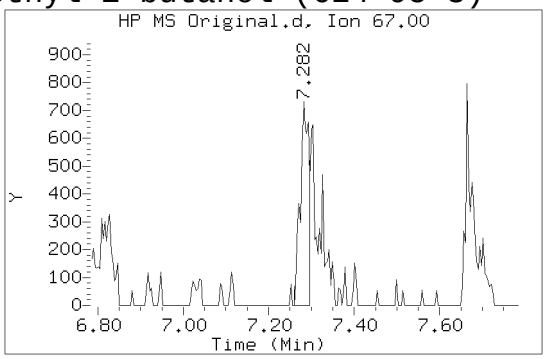
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

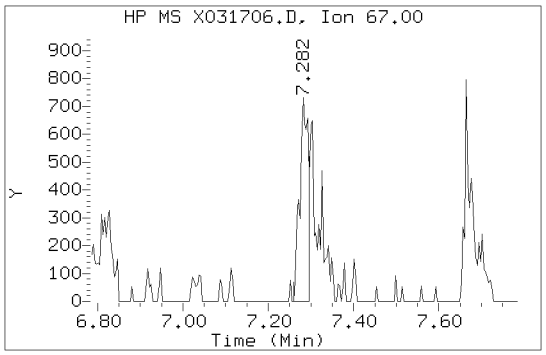
BEFORE

MASS
67
AREA
1055
HEIGHT
732
21-Mar-2023
10:17
linh
pham



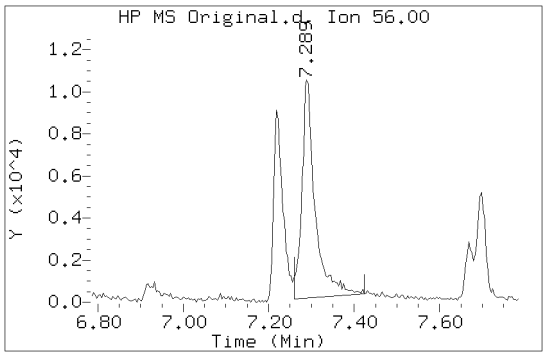
AFTER

MASS
67
AREA
1055
HEIGHT
732
21-Mar-2023
10:17
linh
pham



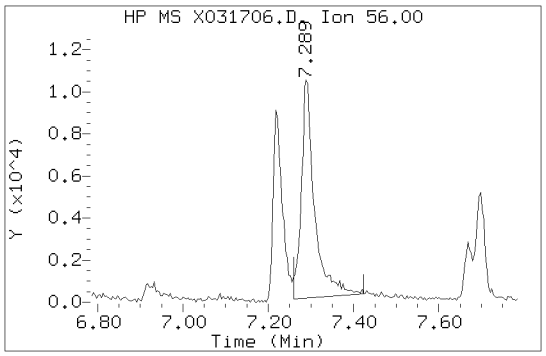
BEFORE

MASS
56
AREA
22816
HEIGHT
10362
21-Mar-2023
10:17
linh
pham



AFTER

MASS
56
AREA
22816
HEIGHT
10362
21-Mar-2023
10:17
linh
pham

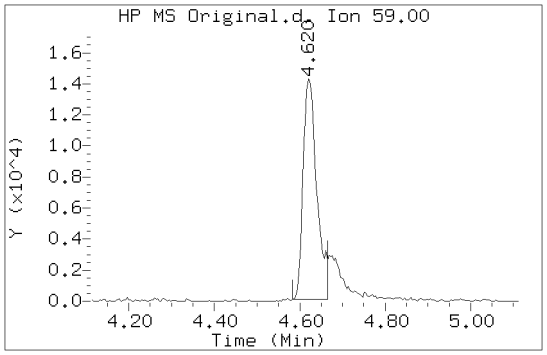


tert-Amyl alcohol (75-85-4)

Reason Code:

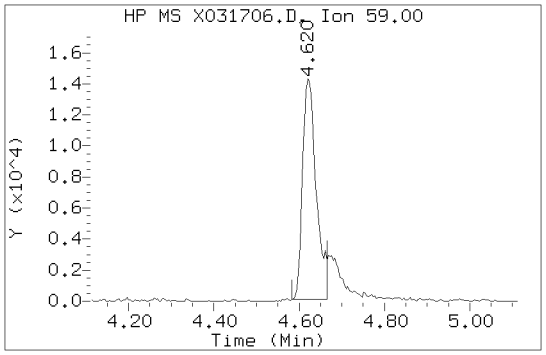
BEFORE

MASS
59
AREA
32276
HEIGHT
14207
21-Mar-2023
10:17
linh
pham



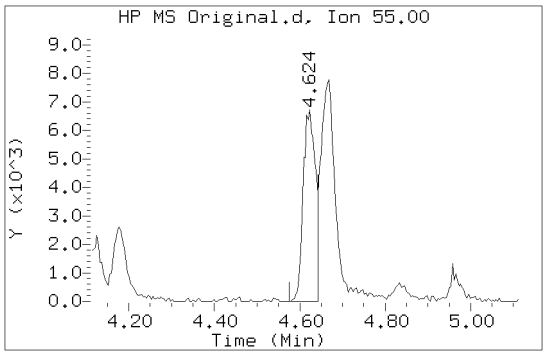
AFTER

MASS
59
AREA
32276
HEIGHT
14207
21-Mar-2023
10:17
linh
pham



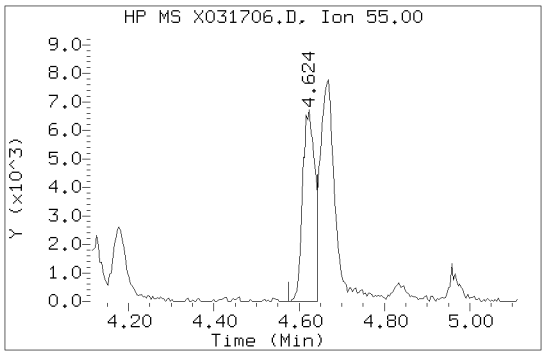
BEFORE

MASS
55
AREA
13691
HEIGHT
6713
21-Mar-2023
10:17
linh
pham



AFTER

MASS
55
AREA
13691
HEIGHT
6713
21-Mar-2023
10:17
linh
pham



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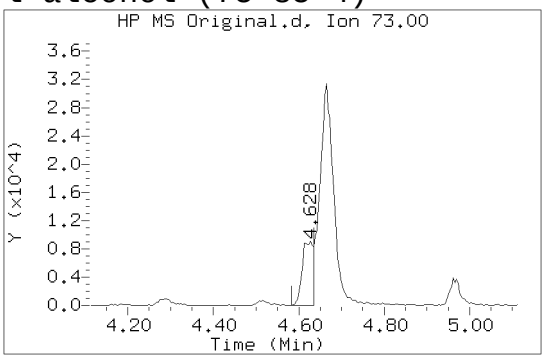
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

tert-Amyl alcohol (75-85-4)

Reason Code:

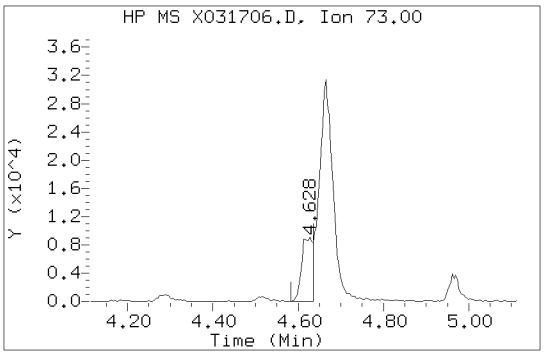
BEFORE

MASS
73
AREA
16815
HEIGHT
9032
21-Mar-2023
10:17
linh
pham



AFTER

MASS
73
AREA
16815
HEIGHT
9032
21-Mar-2023
10:17
linh
pham

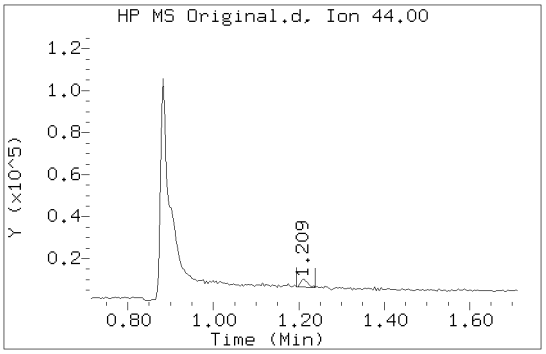


Acetaldehyde (75-07-0)

Reason Code:

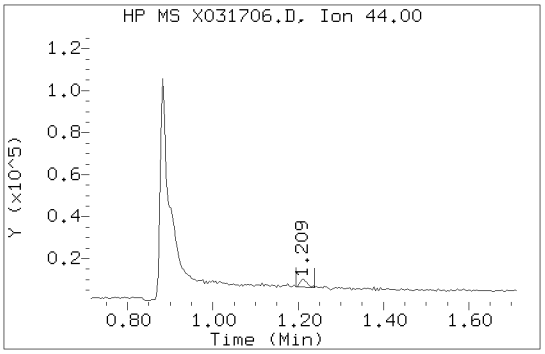
BEFORE

MASS
44
AREA
4487
HEIGHT
3800
21-Mar-2023
10:17
linh
pham



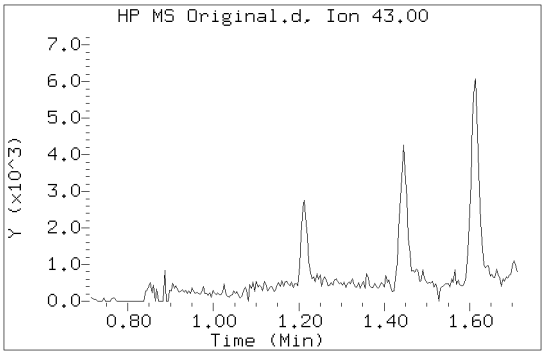
AFTER

MASS
44
AREA
4487
HEIGHT
3800
21-Mar-2023
10:17
linh
pham



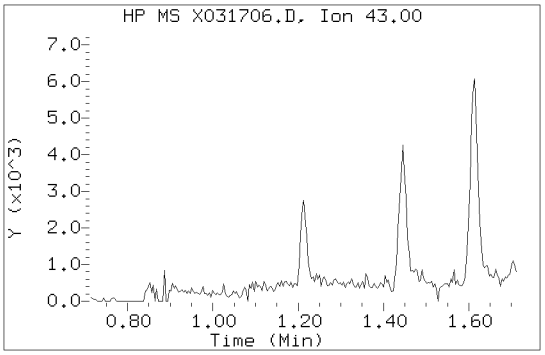
BEFORE

MASS
43
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



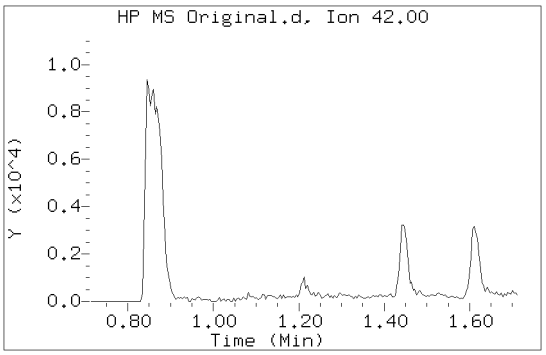
AFTER

MASS
43
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



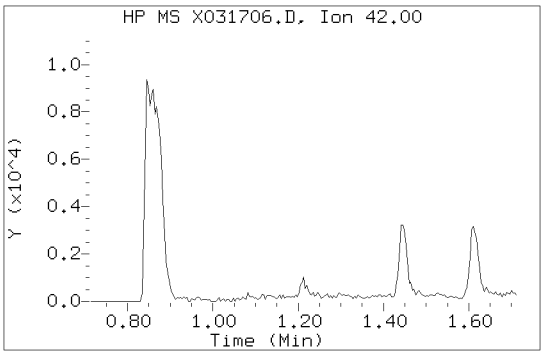
BEFORE

MASS
42
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
42
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

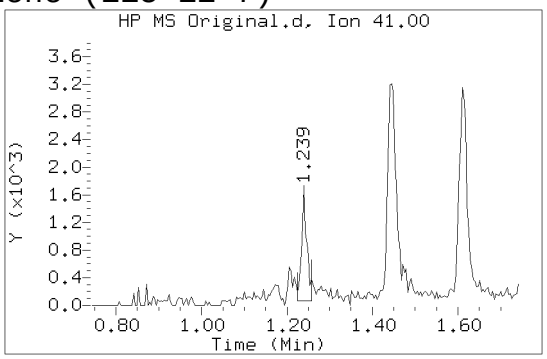


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031706.D
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

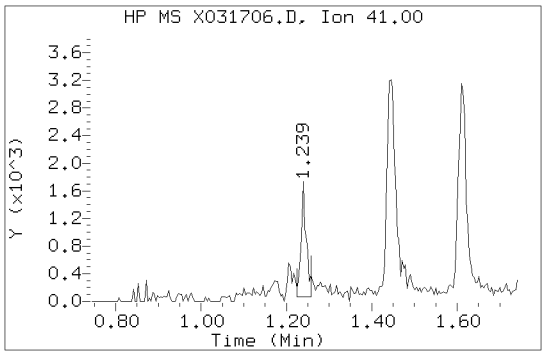
Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
41
AREA
1462
HEIGHT
1677
21-Mar-2023
10:17
linh
pham



AFTER
MASS
41
AREA
1462
HEIGHT
1677
21-Mar-2023
10:17
linh
pham



BEFORE
MASS
56
AREA
0
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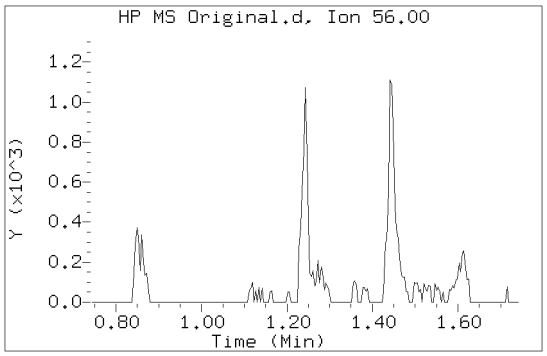

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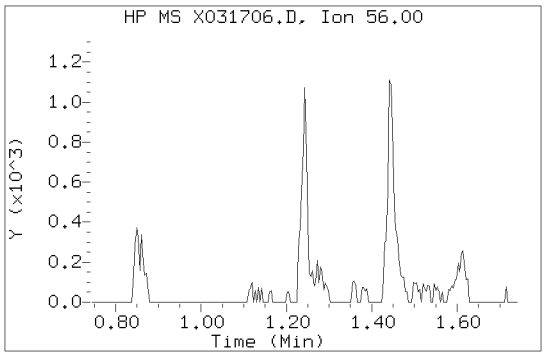

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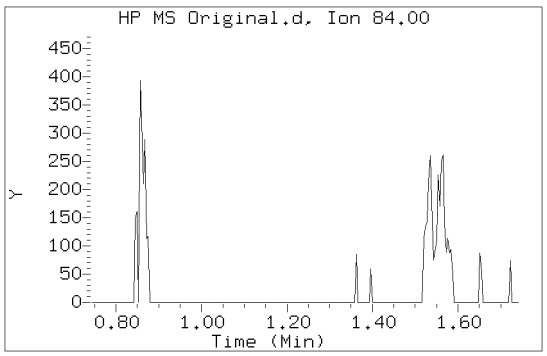

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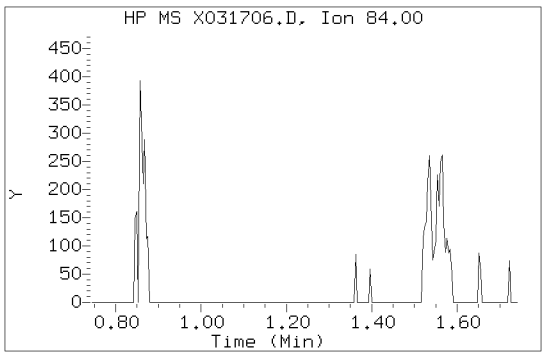

2-Ethylhexyl Acrylate (103-11-7)

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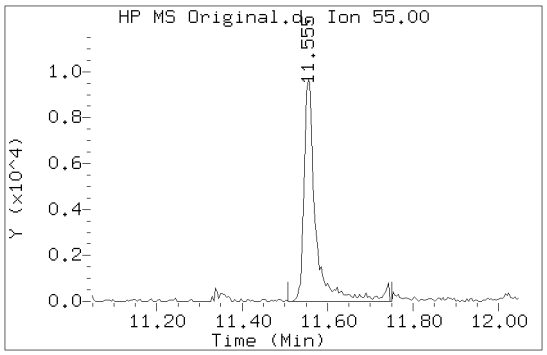

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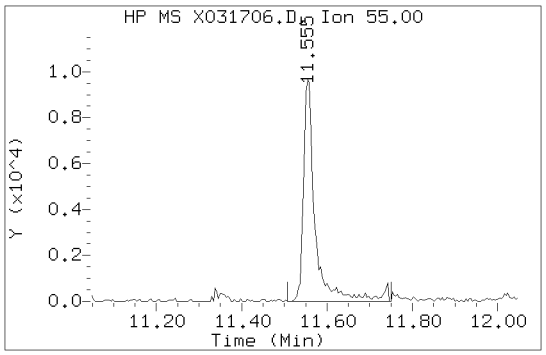

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2-Ethylhexyl Acrylate (103-11-7)

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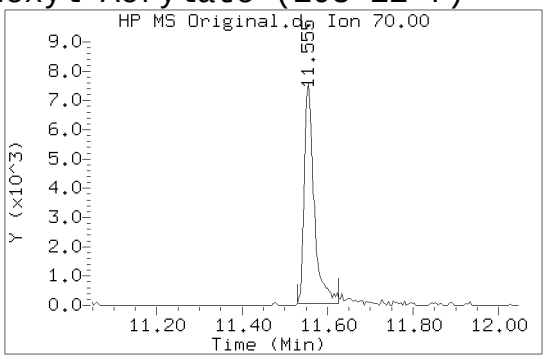

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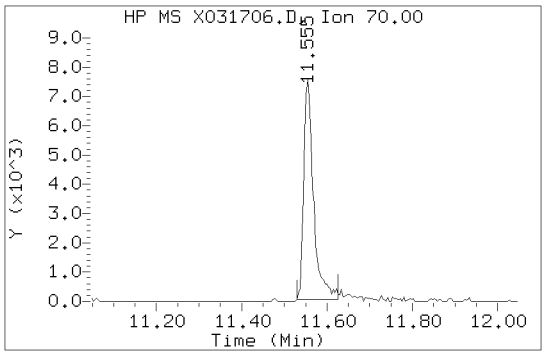

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Report Date: 21-Mar-2023 10:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031707.D
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Inj Date : 17-MAR-2023 13:35
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Smp Info : VSTD020;VSTD020;1;6;
Misc Info : V6;WATER;0;1;
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Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.178	4.178	(1.000)	375428	50.0000	
2	Dichlorodifluoromethane	85	0.973	0.973	(0.233)	49131	20.0000	19.95
3	Chloromethane	50	1.078	1.078	(0.258)	63768	20.0000	18.46
4	Propionitrile	54	3.649	3.649	(0.873)	99704	200.000	188.48(a)
5	Vinyl Chloride	62	1.141	1.141	(0.273)	56297	20.0000	19.03
6	Bromomethane	94	1.340	1.340	(0.321)	33661	20.0000	19.79
7	Chloroethane	64	1.404	1.404	(0.336)	41116	20.0000	19.60
8	Trichlorofluoromethane	101	1.561	1.561	(0.374)	68499	20.0000	19.52
9	Acrolein	56	1.445	1.445	(0.346)	7235	40.0000	35.97
10	Acetone	43	1.973	1.973	(0.472)	45236	40.0000	43.23
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	44176	20.0000	19.59
12	Isobutyl Alcohol	43	4.672	4.672	(1.118)	207920	400.000	405.92(a)
13	Acetonitrile	39	2.198	2.198	(0.526)	66904	200.000	191.47(a)
14	Allyl Chloride	41	2.198	2.198	(0.526)	159235	20.0000	18.42(a)
15	Iodomethane	142	2.026	2.026	(0.485)	49371	40.0000	26.86
16	Acrylonitrile	53	2.539	2.539	(0.608)	50065	40.0000	39.96
17	Methylene Chloride	84	2.303	2.303	(0.551)	76634	20.0000	19.87
18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	221063	20.0000	18.62
19	Carbon Disulfide	76	2.067	2.067	(0.495)	303028	40.0000	36.58
20	trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	60493	20.0000	19.02

21 Vinyl Acetate	43	2.997	2.997 (0.717)	390224	40.0000	40.72
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	111381	20.0000	19.34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.771	1.771	(0.424)	18279	20.0000	17.75(M)
	24 2-Butanone	43	3.578	3.578	(0.856)	53809	40.0000	40.02
	25 Methacrylonitrile	41	3.822	3.822	(0.915)	67445	20.0000	19.49(a)
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	89332	20.0000	19.53
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	73434	20.0000	19.08
	28 Chloroform	83	3.904	3.904	(0.935)	119690	20.0000	18.72
	29 Bromochloromethane	128	3.795	3.795	(0.908)	40882	20.0000	18.77
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	75605	20.0000	21.17
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	90992	20.0000	19.03
	32 1,1-Dichloropropene	75	4.283	4.283	(0.863)	78416	20.0000	18.31
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	94228	20.0000	18.89
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	71340	20.0000	17.40
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.071)	83385	20.0000	21.21
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	600016	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	278054	20.0000	18.84
	38 Trichloroethene	130	5.205	5.205	(1.048)	74100	20.0000	18.64
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	99412	20.0000	18.98
	40 Methyl Methacrylate	41	5.606	5.606	(1.342)	66160	20.0000	19.76(a)
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	62485	40.0000	39.24
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	74812	20.0000	18.81
	43 2-Nitropropane	43	5.969	5.969	(1.429)	21089	20.0000	17.89(H)
	44 Dibromomethane	93	5.553	5.553	(1.119)	49506	20.0000	19.52
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	145503	40.0000	40.14
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	126298	20.0000	19.09
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	572818	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	275369	20.0000	19.39
	49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	86679	20.0000	19.62(a)
	50 Toluene	91	6.446	6.446	(0.841)	287831	20.0000	19.15
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	106247	20.0000	19.34
	52 2-Hexanone	43	7.087	7.087	(0.924)	101401	40.0000	40.76
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	62132	20.0000	19.01
	54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	128223	20.0000	19.74
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	85705	20.0000	18.56
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	54179	20.0000	17.98
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	79749	20.0000	19.74
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	49375	20.0000	18.70
	59 Chlorobenzene	112	7.694	7.694	(1.003)	205948	20.0000	19.17
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	78087	20.0000	18.86
	61 Ethylbenzene	106	7.799	7.799	(1.017)	97589	20.0000	18.46
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	248277	40.0000	37.32
	63 o-Xylene	106	8.241	8.241	(1.075)	124636	20.0000	18.64
	64 Styrene	104	8.260	8.260	(1.077)	220767	20.0000	19.98
	66 Bromoform	173	8.410	8.410	(1.097)	61739	20.0000	19.34
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	272726	20.0000	17.81
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	106192	20.0000	18.99
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	111601	20.0000	20.47
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	320882	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	79380	20.0000	18.89
	72 trans-1,4-Dichloro-2-butene	53	8.890	8.890	(1.159)	23270	20.0000	18.58(a)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	317920	20.0000	17.82
	74 Bromobenzene	156	8.803	8.803	(0.911)	95802	20.0000	18.57
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	249669	20.0000	18.04

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	225352	20.0000	18.79
77	4-Chlorotoluene	91	9.070	9.070 (0.939)	259727	20.0000	19.21

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031707.D Page 3
Report Date: 21-Mar-2023 10:19

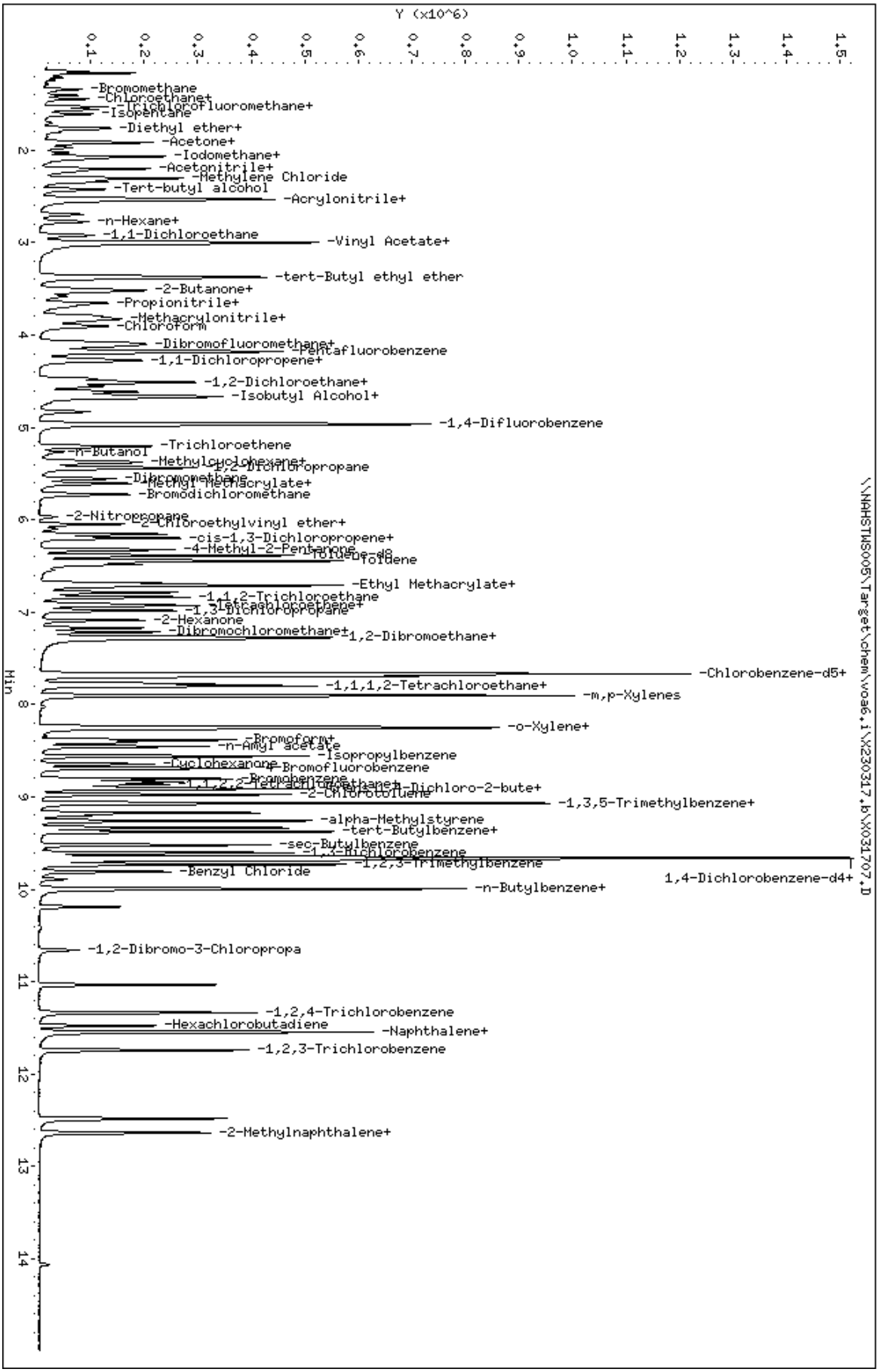
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	191973	20.0000	17.42
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	261695	20.0000	18.44
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	246714	20.0000	16.52
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	232500	20.0000	17.44
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	167600	20.0000	18.78
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	178193	20.0000	18.58
86	Benzyl Chloride	91	9.808	9.808	(1.279)	154893	20.0000	18.08
87	n-Butylbenzene	91	9.996	9.996	(1.035)	188468	20.0000	17.54
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	173370	20.0000	19.42
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	18853	20.0000	19.24
90	1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	121468	20.0000	18.61
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	38257	20.0000	16.84
92	Naphthalene	128	11.544	11.544	(1.195)	309246	20.0000	19.74
93	1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	117523	20.0000	18.82
146	Methyl acetate	43	2.236	2.236	(0.535)	43834	20.0000	20.31
138	Freon TF	101	1.910	1.910	(0.457)	37539	20.0000	19.24
141	Cyclohexane	56	4.121	4.121	(0.987)	64931	20.0000	17.77(M)
142	Tetrahydrofuran	42	3.844	3.844	(0.920)	24653	40.0000	40.21
147	Methylcyclohexane	55	5.385	5.385	(1.085)	148550	20.0000	17.93
135	1,4-Dioxane	88	5.598	5.598	(1.340)	18580	400.000	372.97
132	n-Butanol	56	5.257	5.257	(1.258)	30431	400.000	335.18(a)
131	Methyl Acrylate	55	3.690	3.690	(0.883)	75084	20.0000	19.31
133	Ethyl Acrylate	55	5.385	5.385	(1.289)	149160	20.0000	18.20
136	n-Hexane	57	2.768	2.768	(0.663)	45980	20.0000	20.23
139	Diethyl ether	59	1.756	1.756	(0.420)	49501	20.0000	19.67
148	Tert-butyl alcohol	59	2.423	2.423	(0.580)	150054	400.000	381.66
149	Isopropyl alcohol	45	2.093	2.093	(0.501)	80057	400.000	381.06
156	Diisopropyl ether	45	2.997	2.997	(0.717)	221046	20.0000	18.96
160	2-Methylnaphthalene	142	12.635	12.635	(1.308)	148176	20.0000	19.14
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	269949	20.0000	17.54
167	Ethanol	45	1.704	1.704	(0.408)	14003	400.000	415.88
172	tert-Butyl formate	59	4.616	4.616	(1.105)	117591	40.0000	38.44
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	168566	400.000	381.89
174	tert-Amyl methyl ether	73	4.661	4.661	(1.116)	251060	20.0000	18.68
175	tert-Butyl ethyl ether	59	3.372	3.372	(0.807)	231660	20.0000	18.97
176	tert-Amyl alcohol	59	4.616	4.616	(1.105)	117591	400.000	366.00
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	348435	400.000	397.85(M)
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	148176	20.0000	(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	48007	20.0000	18.85
152	Amyl alcohol	42	6.907	6.907	(0.901)	38119	400.000	369.23(M)
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	88715	20.0000	19.07
159	Propylene oxide	43	1.805	1.805	(0.432)	9637	40.0000	41.14(M)
161	3-Methyl-1-butanol	55	6.907	6.907	(0.901)	39040	400.000	390.51(M)
162	Butyl acrylate	55	8.252	8.252	(1.076)	161426	20.0000	19.09
182	Epichlorohydrin	57	6.097	6.097	(1.228)	24930	80.0000	72.83
M 94	1,2-Dichloroethylene (total)	96				133927	40.0000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	131083	20.0000	18.73
130	Ethyl Acetate	43	3.653	3.653	(0.874)	82432	20.0000	21.25
134	Cyclohexanone	55	8.642	8.642	(0.894)	74641	400.000	391.66(a)
185	Isoprene	39	1.771	1.771	(0.424)	13485	20.0000	18.72
188	Isopropyl acetate	43	4.672	4.672	(0.941)	209284	20.0000	19.26
187	n-Amyl acetate	43	8.455	8.455	(1.103)	141740	20.0000	19.92

189 n-Butyl acetate	43	7.214	7.214 (0.941)	122667	20.0000	20.22(H)
150 Allyl alcohol	57	2.768	2.768 (0.663)	45980	400.000	404.62

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.212	1.212	(0.290)	14072	80.0000	62.26(M)
195 Methyl Amyl Ketone	43	8.384	8.384	(1.093)	179784	20.0000	19.86
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	141726	20.0000	18.89
202 Isobutylene	41	1.242	1.242	(0.297)	6364	20.0000	20.39(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	84839	20.0000	17.90

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 17-MAR-2023 13:35
InstruID : voa6.i
LabSampID : VSTD020

Chloroprene (126-99-8)

Reason Code:

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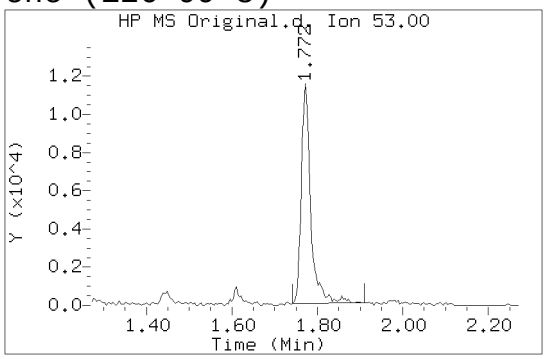

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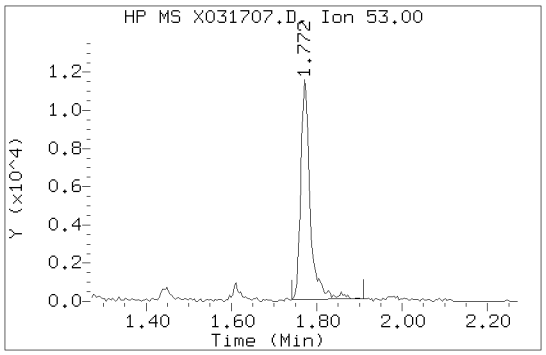

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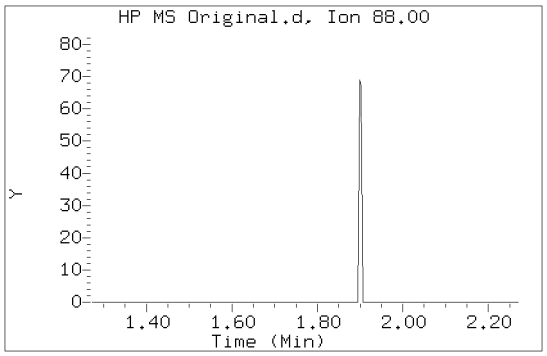
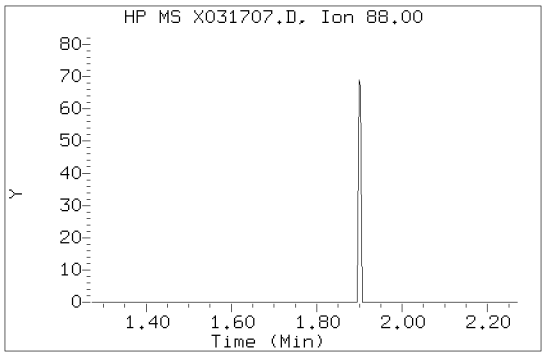


AFTER

MASS
88
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham

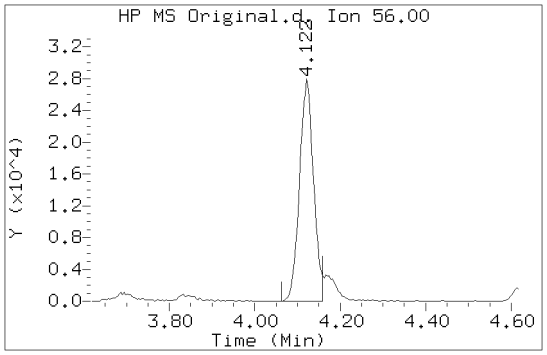


Cyclohexane (110-82-7)

Reason Code:

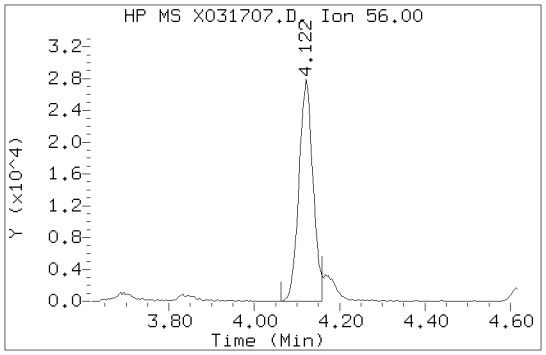
BEFORE

MASS
56
AREA
64931
HEIGHT
27960
21-Mar-2023
10:17
linh
pham



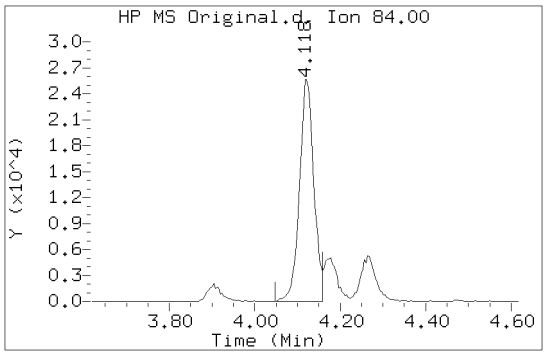
AFTER

MASS
56
AREA
64931
HEIGHT
27960
21-Mar-2023
10:17
linh
pham



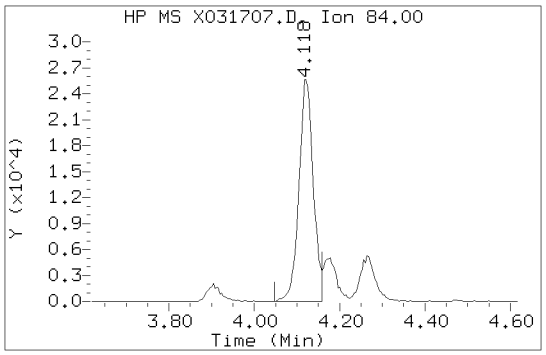
BEFORE

MASS
84
AREA
61016
HEIGHT
25632
21-Mar-2023
10:17
linh
pham



AFTER

MASS
84
AREA
61016
HEIGHT
25632
21-Mar-2023
10:17
linh
pham



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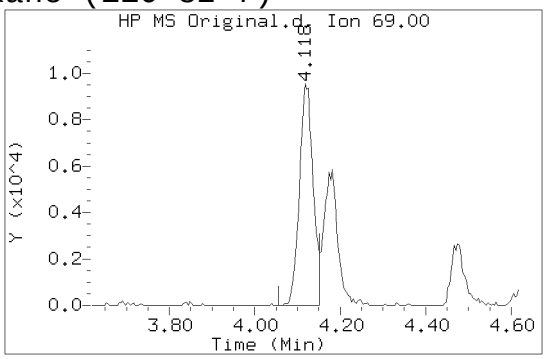
Inj Date : 17-MAR-2023 13:35
InstruID : voa6.i
LabSampID : VSTD020

Cyclohexane (110-82-7)

Reason Code:

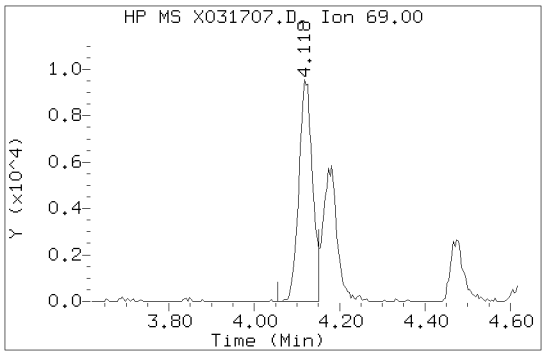
BEFORE

MASS
69
AREA
21678
HEIGHT
9550
21-Mar-2023
10:17
linh
pham



AFTER

MASS
69
AREA
21678
HEIGHT
9550
21-Mar-2023
10:17
linh
pham

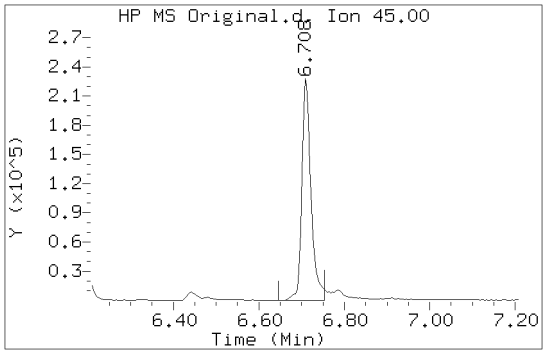


4-Methyl-2-pentanol (108-11-2)

Reason Code:

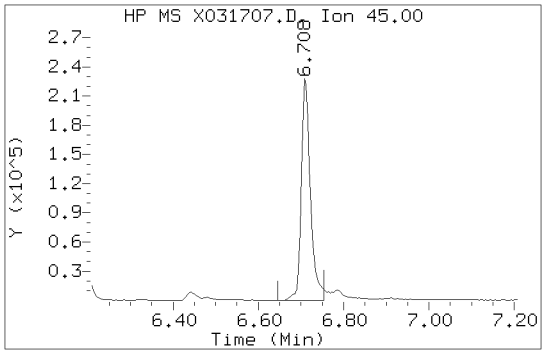
BEFORE

MASS
45
AREA
348435
HEIGHT
227551
21-Mar-2023
10:17
linh
pham



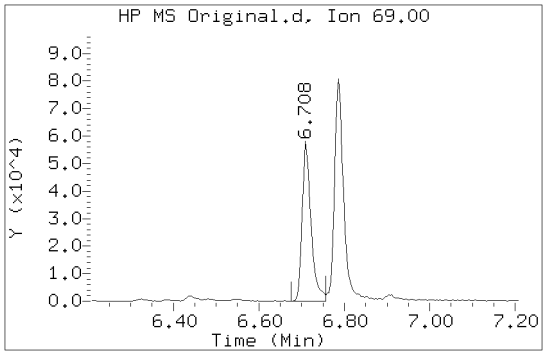
AFTER

MASS
45
AREA
348435
HEIGHT
227551
21-Mar-2023
10:17
linh
pham



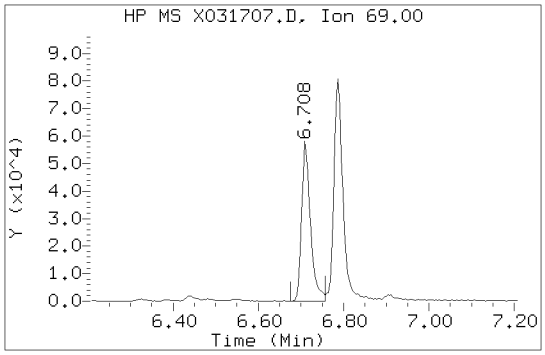
BEFORE

MASS
69
AREA
86007
HEIGHT
57983
21-Mar-2023
10:17
linh
pham



AFTER

MASS
69
AREA
86007
HEIGHT
57983
21-Mar-2023
10:17
linh
pham

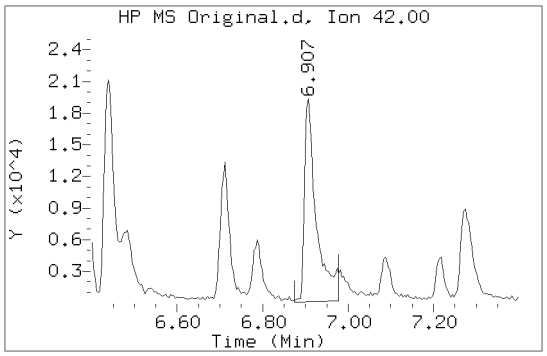


Amyl alcohol (71-41-0)

Reason Code:

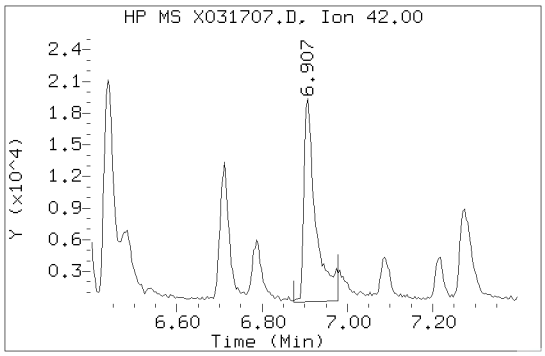
BEFORE

MASS
42
AREA
38119
HEIGHT
19252
21-Mar-2023
10:17
linh
pham



AFTER

MASS
42
AREA
38119
HEIGHT
19252
21-Mar-2023
10:17
linh
pham



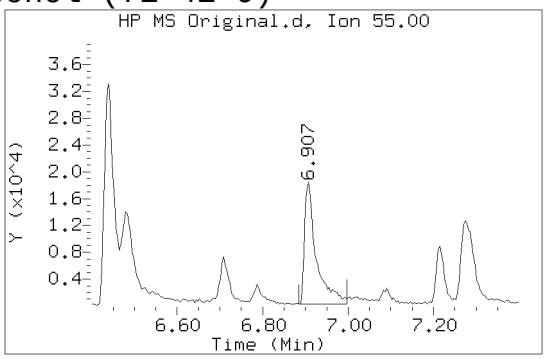
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031707.D
Inj Date : 17-MAR-2023 13:35
InstruID : voa6.i
LabSampID : VSTD020

Amyl alcohol (71-41-0)

Reason Code:

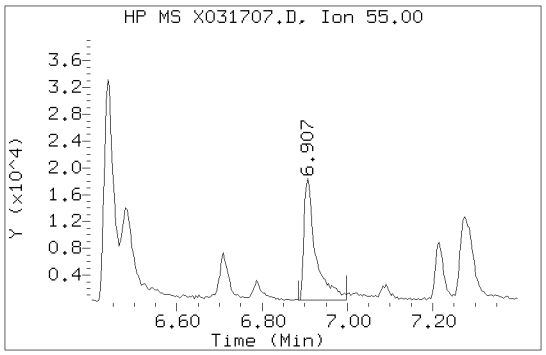
BEFORE

MASS
55
AREA
35386
HEIGHT
18139
21-Mar-2023
10:17
linh
pham



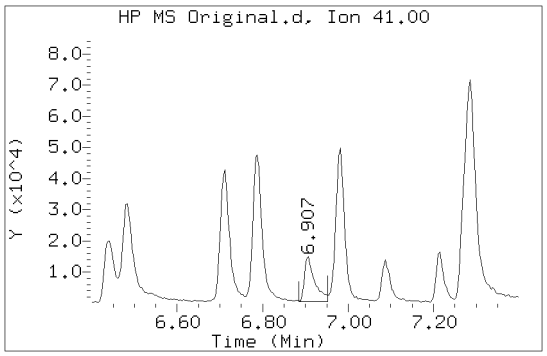
AFTER

MASS
55
AREA
35386
HEIGHT
18139
21-Mar-2023
10:17
linh
pham



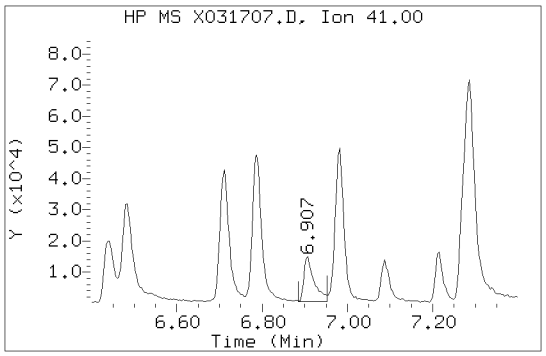
BEFORE

MASS
41
AREA
24753
HEIGHT
14583
21-Mar-2023
10:17
linh
pham



AFTER

MASS
41
AREA
24753
HEIGHT
14583
21-Mar-2023
10:17
linh
pham

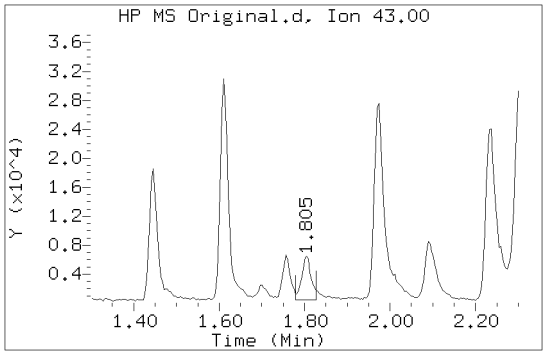


Propylene oxide ()

Reason Code:

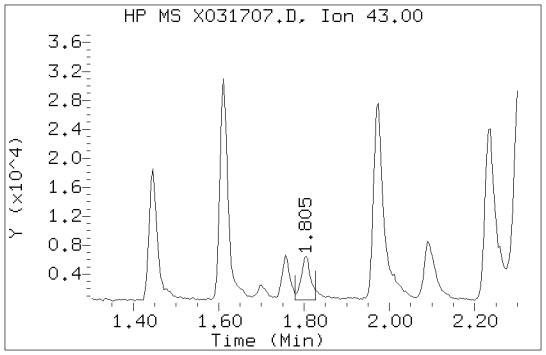
BEFORE

MASS
43
AREA
9637
HEIGHT
6029
21-Mar-2023
10:17
linh
pham



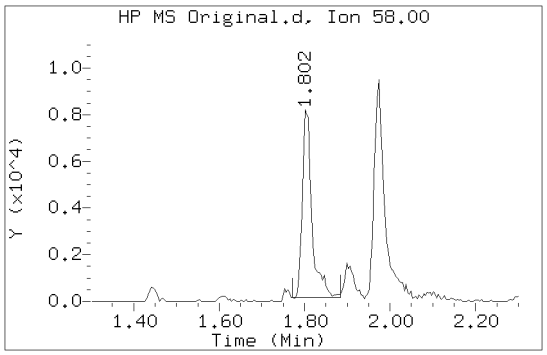
AFTER

MASS
43
AREA
9637
HEIGHT
6029
21-Mar-2023
10:17
linh
pham



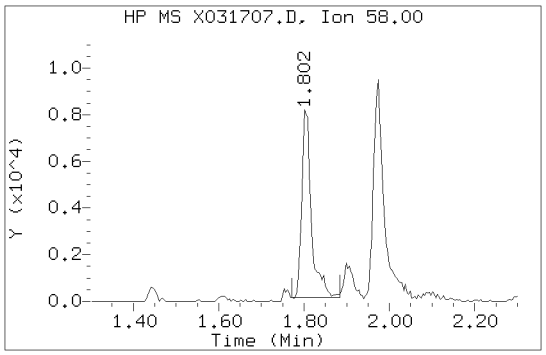
BEFORE

MASS
58
AREA
13057
HEIGHT
8060
21-Mar-2023
10:17
linh
pham



AFTER

MASS
58
AREA
13057
HEIGHT
8060
21-Mar-2023
10:17
linh
pham



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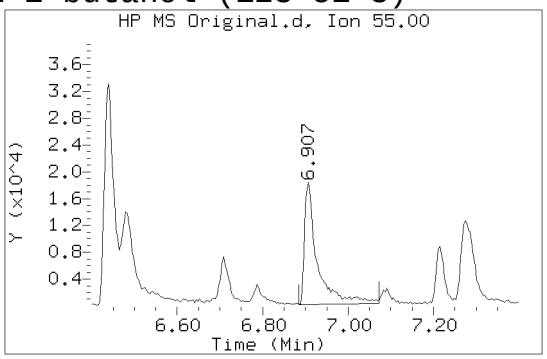
Inj Date : 17-MAR-2023 13:35
InstruID : voa6.i
LabSampID : VSTD020

3-Methyl-1-butanol (123-51-3)

Reason Code:

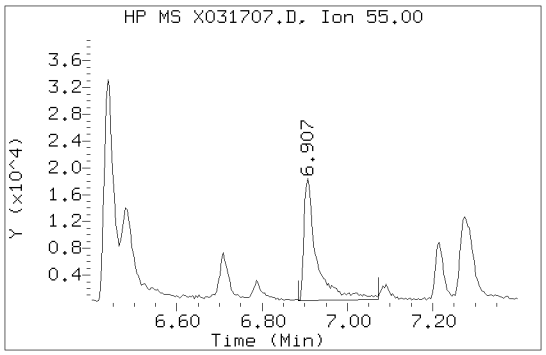
BEFORE

MASS
55
AREA
39040
HEIGHT
18227
21-Mar-2023
10:17
linh
pham



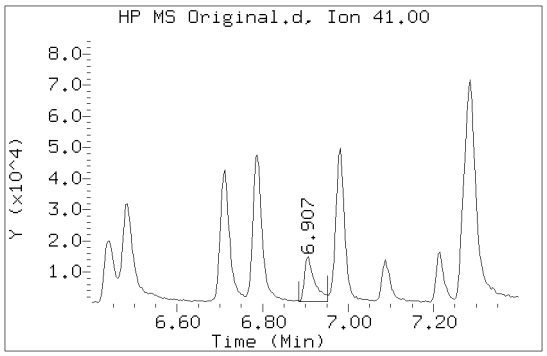
AFTER

MASS
55
AREA
39040
HEIGHT
18227
21-Mar-2023
10:17
linh
pham



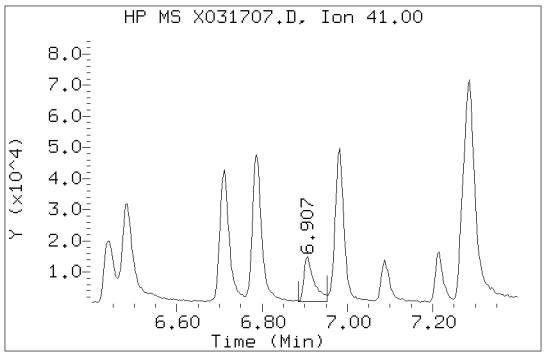
BEFORE

MASS
41
AREA
24753
HEIGHT
14583
21-Mar-2023
10:17
linh
pham



AFTER

MASS
41
AREA
24753
HEIGHT
14583
21-Mar-2023
10:17
linh
pham

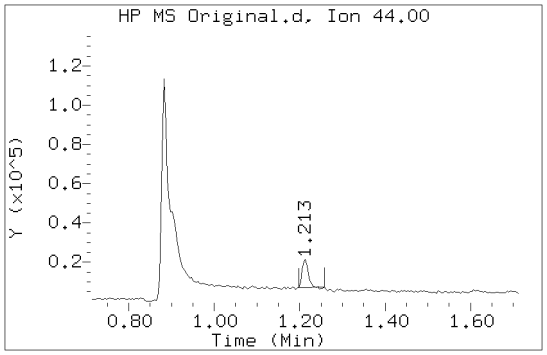


Acetaldehyde (75-07-0)

Reason Code:

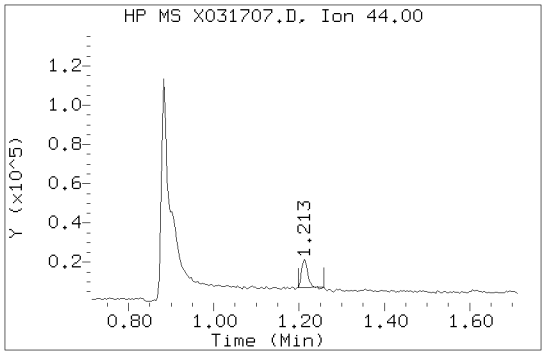
BEFORE

MASS
44
AREA
14072
HEIGHT
14331
21-Mar-2023
10:17
linh
pham



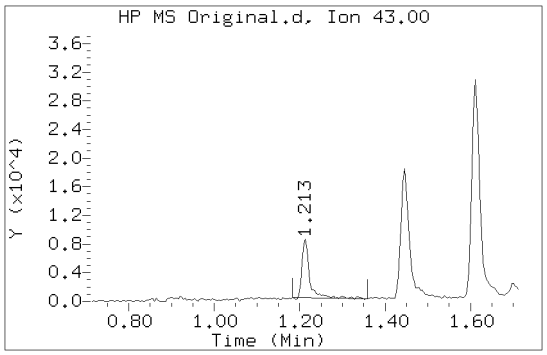
AFTER

MASS
44
AREA
14072
HEIGHT
14331
21-Mar-2023
10:17
linh
pham



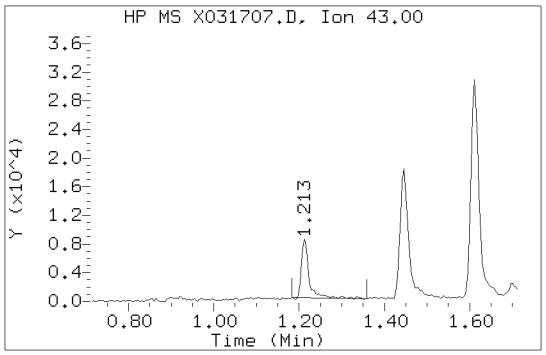
BEFORE

MASS
43
AREA
10141
HEIGHT
8184
21-Mar-2023
10:17
linh
pham



AFTER

MASS
43
AREA
10141
HEIGHT
8184
21-Mar-2023
10:17
linh
pham



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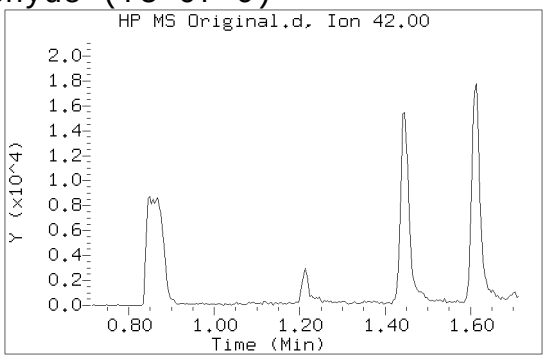
Inj Date : 17-MAR-2023 13:35
InstruID : voa6.i
LabSampID : VSTD020

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
42
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
42
AREA
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HEIGHT
0
21-Mar-2023
10:17
linh
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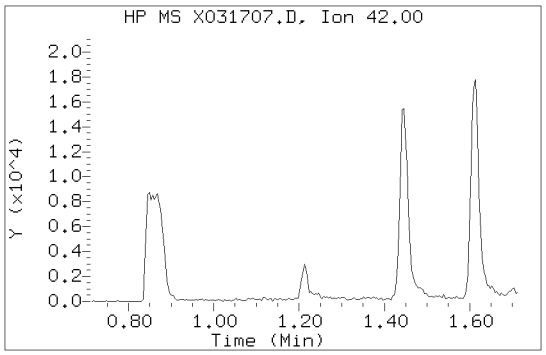
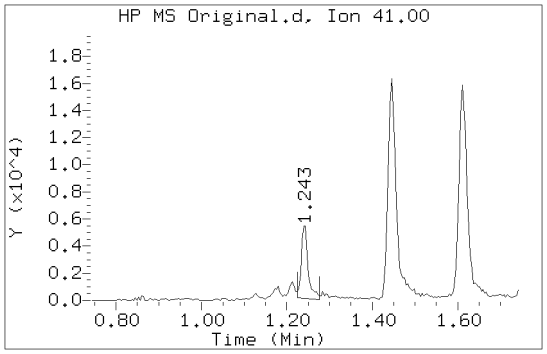


Isobutylene (115-11-7)

Reason Code:

BEFORE

MASS
41
AREA
6364
HEIGHT
5367
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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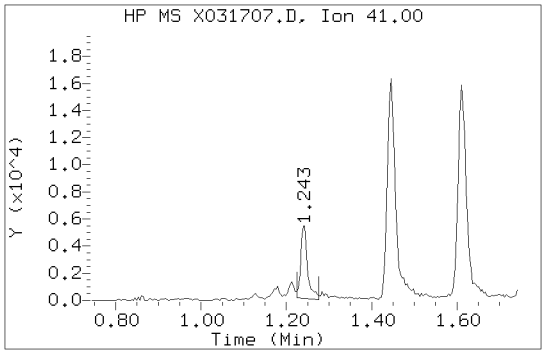
AREA
6364
HEIGHT
5367
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
56
AREA
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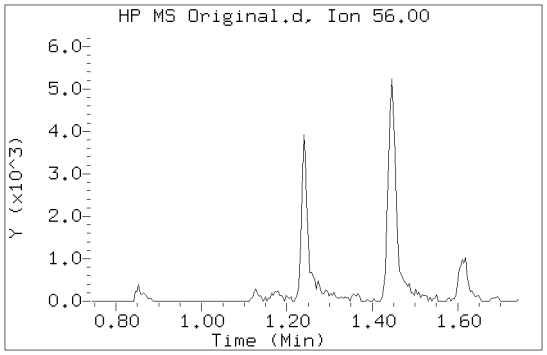
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
56
AREA
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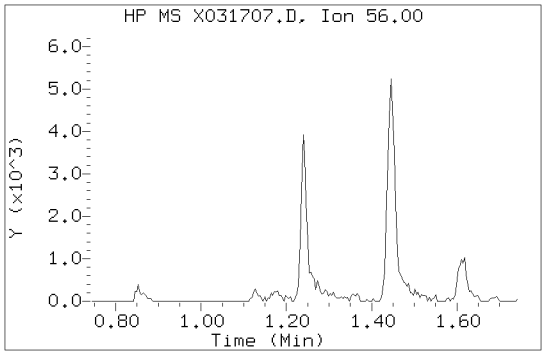
HEIGHT
0
21-Mar-2023
10:17
linh
pham



BEFORE

MASS
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AREA
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HEIGHT
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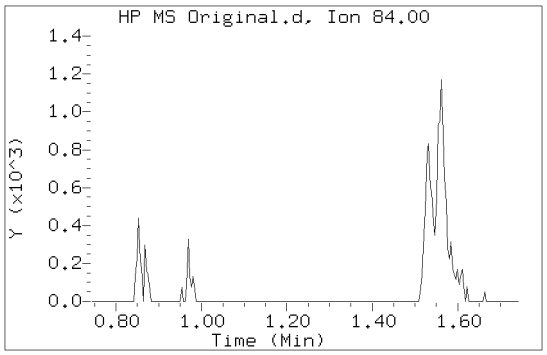
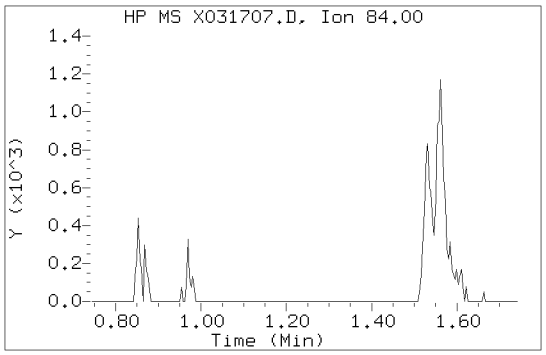
21-Mar-2023
10:17
linh
pham



AFTER

MASS
84
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



ALS Laboratory Group

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Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 17-MAR-2023 13:55
Operator : PC Inst ID: voa6.i
Smp Info : VSTD050;VSTD050;1;7;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 21-Mar-2023 10:19 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:35 Cal File: X031707.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.177	4.177	(1.000)	373841	50.0000	
2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	117977	50.0000	46.36
3	Chloromethane	50	1.077	1.077	(0.258)	167357	50.0000	48.66
4	Propionitrile	54	3.649	3.649	(0.873)	270084	500.000	512.73
5	Vinyl Chloride	62	1.145	1.145	(0.274)	149239	50.0000	50.68
6	Bromomethane	94	1.340	1.340	(0.321)	87374	50.0000	51.60
7	Chloroethane	64	1.403	1.403	(0.336)	102645	50.0000	49.15
8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	164979	50.0000	47.23
9	Acrolein	56	1.445	1.445	(0.346)	19125	100.000	90.33
10	Acetone	43	1.970	1.970	(0.472)	109249	100.000	112.28
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	107070	50.0000	47.69
12	Isobutyl Alcohol	43	4.672	4.672	(1.118)	526042	1000.00	1031.36
13	Acetonitrile	39	2.194	2.194	(0.525)	180909	500.000	519.95
14	Allyl Chloride	41	2.194	2.194	(0.525)	430489	50.0000	50.02
15	Iodomethane	142	2.026	2.026	(0.485)	207928	100.000	81.56
16	Acrylonitrile	53	2.528	2.528	(0.605)	131146	100.000	105.12
17	Methylene Chloride	84	2.303	2.303	(0.551)	192572	50.0000	52.77
18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	567859	50.0000	48.03
19	Carbon Disulfide	76	2.067	2.067	(0.495)	778166	100.000	94.34
20	trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	154462	50.0000	48.78

21 Vinyl Acetate	43	2.993	2.993 (0.716)	1029643	100.000	107.91
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	289120	50.0000	50.41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.771	1.771	(0.424)	44157	50.0000	43.07(M)
	24 2-Butanone	43	3.574	3.574	(0.856)	151521	100.000	113.19
	25 Methacrylonitrile	41	3.814	3.814	(0.913)	176795	50.0000	51.31(a)
	26 2,2-Dichloropropane	77	3.506	3.506	(0.839)	222642	50.0000	49.28
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	191357	50.0000	49.93
	28 Chloroform	83	3.904	3.904	(0.935)	307216	50.0000	48.26
	29 Bromochloromethane	128	3.791	3.791	(0.908)	105048	50.0000	48.44
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	170305	50.0000	48.87
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	222808	50.0000	46.81
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	193486	50.0000	45.60
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	246302	50.0000	49.82
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	174932	50.0000	43.07
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	195743	50.0000	48.59
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	594591	50.0000	
	37 Benzene	78	4.507	4.507	(0.908)	703343	50.0000	48.10
	38 Trichloroethene	130	5.205	5.205	(1.048)	185831	50.0000	47.18
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	252126	50.0000	48.58
	40 Methyl Methacrylate	41	5.602	5.602	(1.341)	169979	50.0000	50.99
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	167359	100.000	106.06
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	192097	50.0000	48.75
	43 2-Nitropropane	43	5.969	5.969	(1.429)	57117	50.0000	48.66(H)
	44 Dibromomethane	93	5.549	5.549	(1.118)	125388	50.0000	49.89
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	363583	100.000	103.68
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	325410	50.0000	49.64
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	554194	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	614524	50.0000	44.73
	49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	205243	50.0000	46.89
	50 Toluene	91	6.445	6.445	(0.841)	730338	50.0000	50.22
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	278750	50.0000	51.22
	52 2-Hexanone	43	7.083	7.083	(0.924)	252865	100.000	105.07
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	155952	50.0000	49.33
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	321042	50.0000	51.09
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	223669	50.0000	50.08
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	135670	50.0000	46.54
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	201695	50.0000	51.61
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	119361	50.0000	42.40
	59 Chlorobenzene	112	7.690	7.690	(1.003)	512097	50.0000	49.28
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	195670	50.0000	48.86
	61 Ethylbenzene	106	7.799	7.799	(1.017)	242806	50.0000	47.48
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	620869	100.000	96.47
	63 o-Xylene	106	8.241	8.241	(1.075)	311334	50.0000	48.14
	64 Styrene	104	8.256	8.256	(1.077)	545876	50.0000	51.08
	66 Bromoform	173	8.410	8.410	(1.097)	161168	50.0000	52.19
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	689580	50.0000	46.55
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	264683	50.0000	49.31
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	251415	50.0000	47.91
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	308014	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	206608	50.0000	51.22(M)
	72 trans-1,4-Dichloro-2-butene	53	8.889	8.889	(1.159)	62606	50.0000	50.73
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	800417	50.0000	46.75
	74 Bromobenzene	156	8.803	8.803	(0.911)	242222	50.0000	48.91
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	626138	50.0000	47.15

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	545068	50.0000	47.35
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	628283	50.0000	48.43

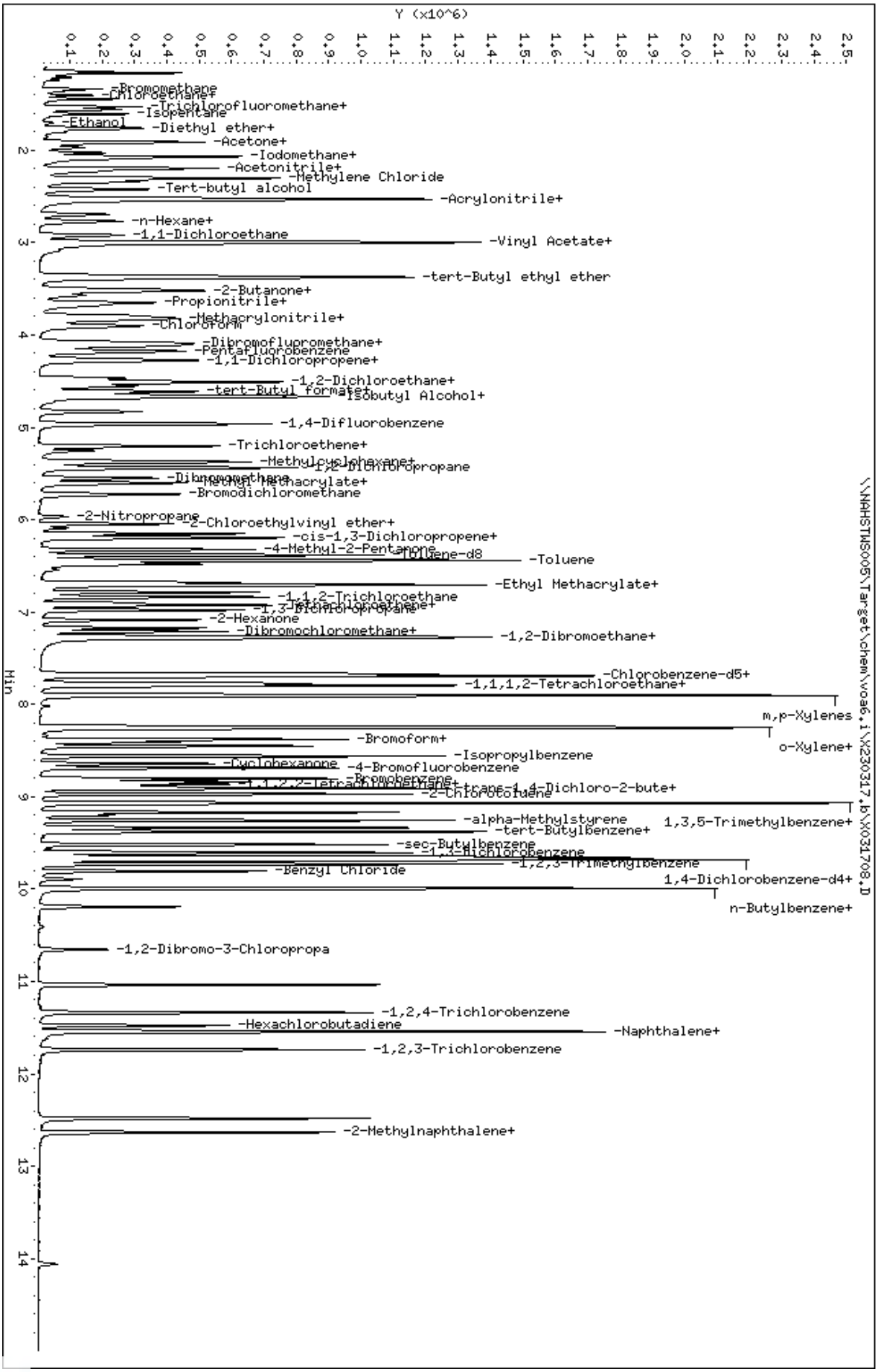
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	479849	50.0000	45.37	
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	647040	50.0000	47.51	
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	635488	50.0000	44.33	
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	597051	50.0000	46.67	
83	1,3-Dichlorobenzene	146	9.605	9.605	(0.994)	407797	50.0000	47.61	
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	425076	50.0000	46.17	
86	Benzyl Chloride	91	9.808	9.808	(1.279)	426174	50.0000	48.57	
87	n-Butylbenzene	91	9.992	9.992	(1.034)	492948	50.0000	47.81	
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	415464	50.0000	48.49	
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	47841	50.0000	48.44	
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	309417	50.0000	49.40	
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	105547	50.0000	43.74	
92	Naphthalene	128	11.540	11.540	(1.194)	776382	50.0000	51.64	
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	294272	50.0000	49.10	
146	Methyl acetate	43	2.228	2.228	(0.533)	120116	50.0000	55.90	
138	Freon TF	101	1.913	1.913	(0.458)	91222	50.0000	44.28	
141	Cyclohexane	56	4.121	4.121	(0.987)	172149	50.0000	43.51	
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	63889	100.000	104.65	
147	Methylcyclohexane	55	5.377	5.377	(1.083)	416477	50.0000	50.72	
135	1,4-Dioxane	88	5.598	5.598	(1.340)	49172	1000.00	991.26	
132	n-Butanol	56	5.253	5.253	(1.258)	92688	1000.00	959.97	
131	Methyl Acrylate	55	3.686	3.686	(0.882)	193417	50.0000	49.95	
133	Ethyl Acrylate	55	5.377	5.377	(1.287)	416477	50.0000	51.05	
136	n-Hexane	57	2.772	2.772	(0.664)	126023	50.0000	49.94	
139	Diethyl ether	59	1.756	1.756	(0.420)	125530	50.0000	50.11	
148	Tert-butyl alcohol	59	2.423	2.423	(0.580)	393877	1000.00	1006.07	
149	Isopropyl alcohol	45	2.089	2.089	(0.500)	215502	1000.00	1030.13	
156	Diisopropyl ether	45	2.997	2.997	(0.717)	569349	50.0000	49.05	
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	371558	50.0000	50.00	
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	686753	50.0000	46.49	
167	Ethanol	45	1.703	1.703	(0.408)	33743	1000.00	1006.41	
172	tert-Butyl formate	59	4.612	4.612	(1.104)	317073	100.000	104.09	
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	409497	1000.00	958.91	
174	tert-Amyl methyl ether	73	4.661	4.661	(1.116)	615262	50.0000	45.99	
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.808)	591649	50.0000	48.66	
176	tert-Amyl alcohol	59	4.612	4.612	(1.104)	317073	1000.00	991.09	
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	835722	1000.00	962.95	
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	371558	50.0000	(a)	
140	1,3-Butadiene	54	1.164	1.164	(0.279)	124352	50.0000	49.04	
152	Amyl alcohol	42	6.899	6.899	(0.900)	102123	1000.00	1022.45	
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	228773	50.0000	49.39	
159	Propylene oxide	43	1.801	1.801	(0.431)	24664	100.000	105.75	
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	102539	1000.00	1060.15	
162	Butyl acrylate	55	8.248	8.248	(1.076)	415512	50.0000	50.79	
182	Epichlorohydrin	57	6.093	6.093	(1.227)	68301	200.000	201.35	
M 94	1,2-Dichloroethylene (total)	96				345819	100.000	(a)	
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	325877	50.0000	48.52	
130	Ethyl Acetate	43	3.653	3.653	(0.874)	194667	50.0000	50.41	
134	Cyclohexanone	55	8.642	8.642	(0.894)	181830	1000.00	993.98	
185	Isoprene	39	1.771	1.771	(0.424)	34797	50.0000	48.52	
188	Isopropyl acetate	43	4.672	4.672	(0.941)	529263	50.0000	49.15	
187	n-Amyl acetate	43	8.451	8.451	(1.102)	340673	50.0000	49.50	

189 n-Butyl acetate	43	7.210	7.210 (0.940)	307519	50.0000	52.39(H)
150 Allyl alcohol	57	2.772	2.772 (0.664)	126023	1000.00	999.35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.212	1.212	(0.290)	48915	200.000	219.37(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	436676	50.0000	49.86
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	400941	50.0000	55.24
202 Isobutylene	41	1.242	1.242	(0.297)	14468	50.0000	46.55(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	243042	50.0000	53.44

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Sample Info: VSTD050;VSTD050;1;7;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 17-MAR-2023 13:55
InstruID : voa6.i
LabSampID : VSTD050

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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21-Mar-2023
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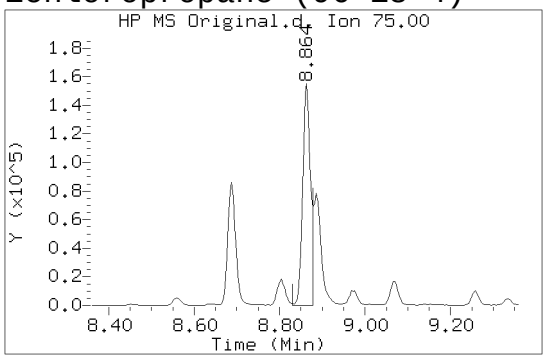

AFTER

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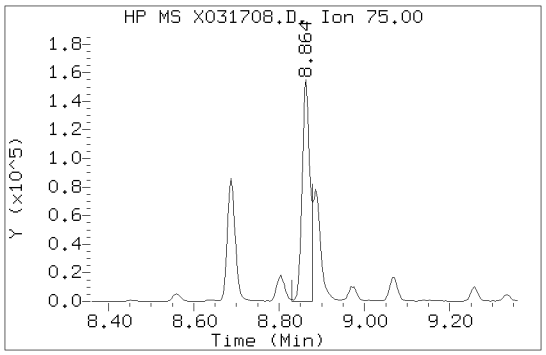

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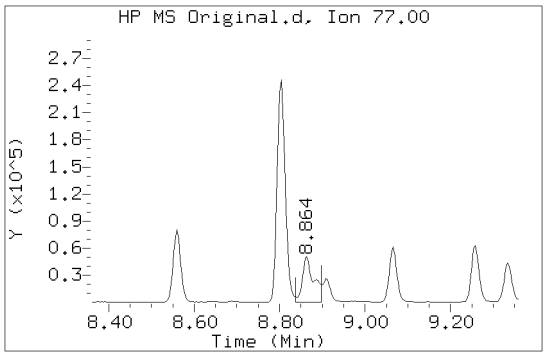

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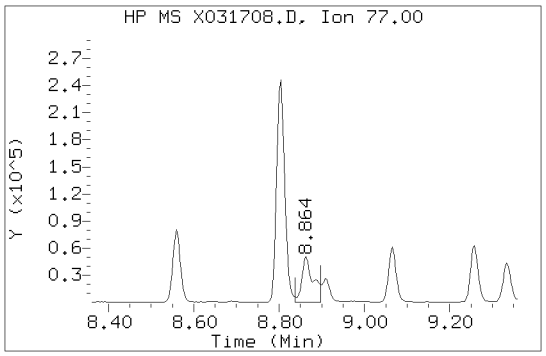

Chloroprene (126-99-8)

Reason Code:

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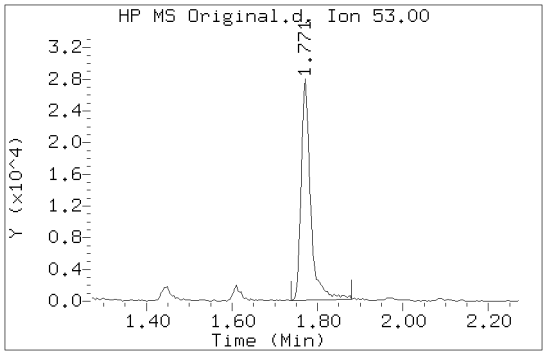

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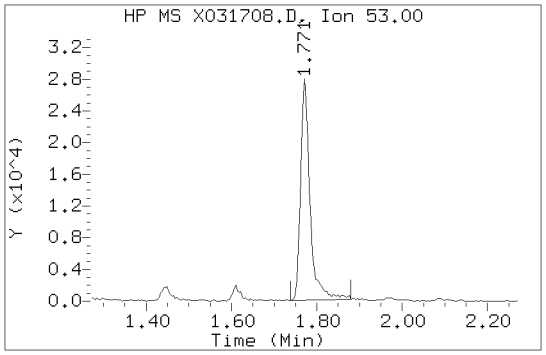

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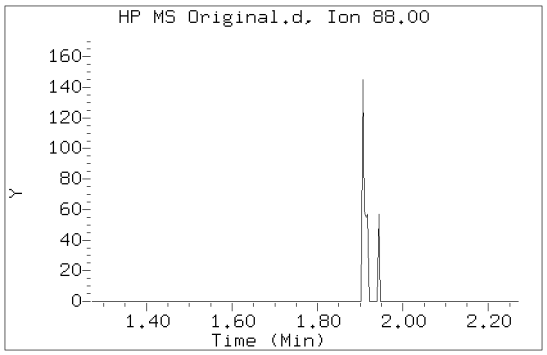

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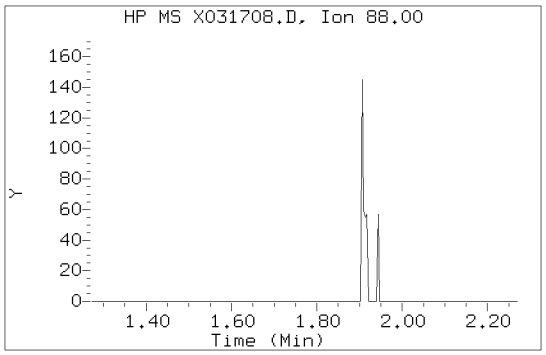

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LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

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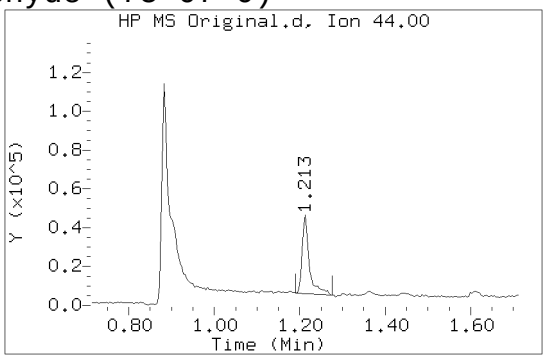

AFTER

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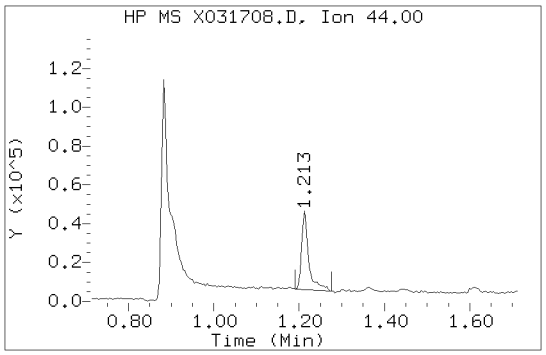

BEFORE

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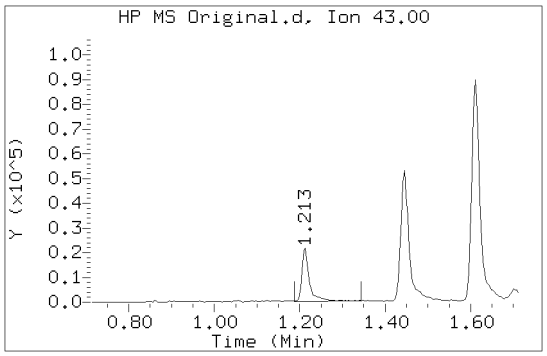

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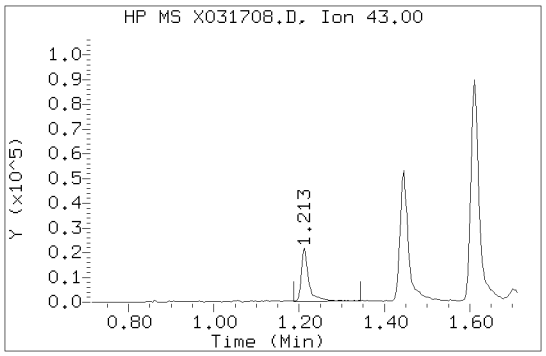

BEFORE

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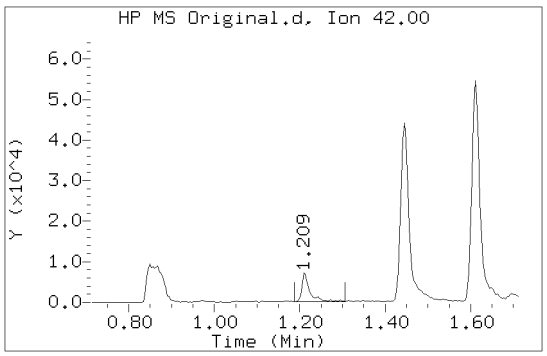

AFTER

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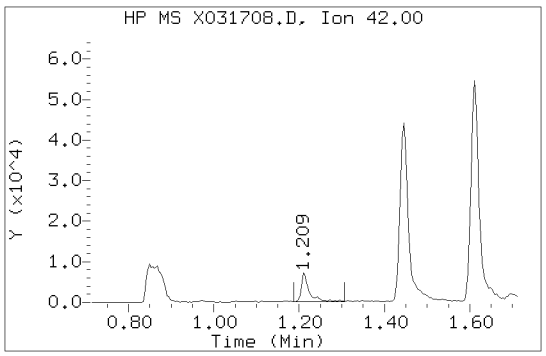

Isobutylene (115-11-7)

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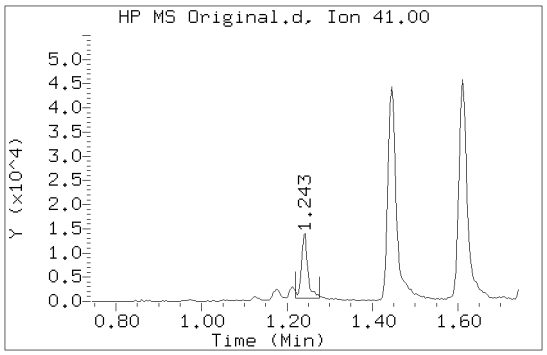

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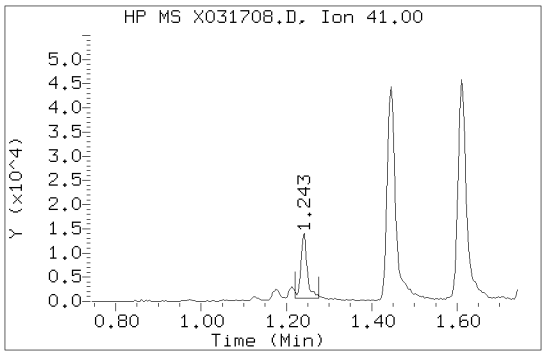

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Isobutylene (115-11-7)

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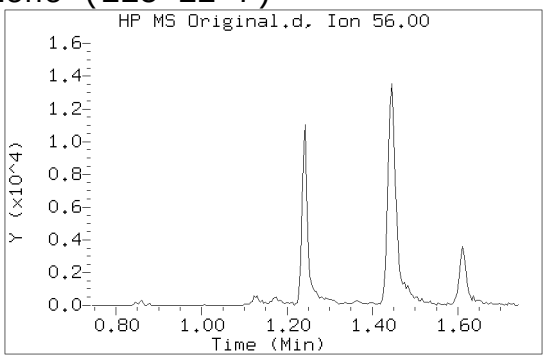

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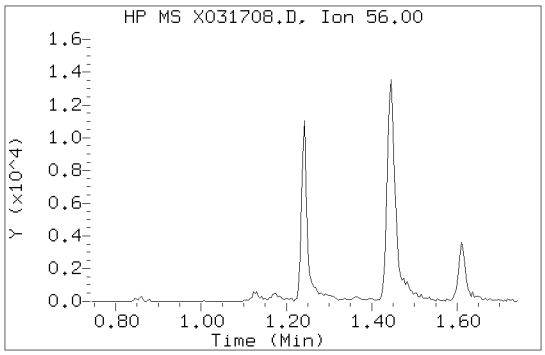

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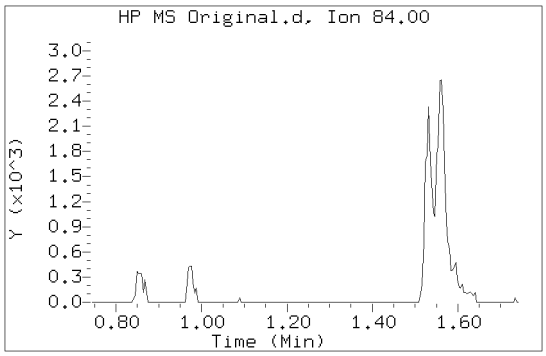

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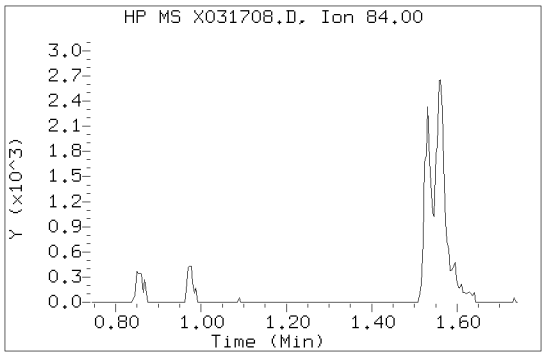

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Report Date: 21-Mar-2023 10:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031709.D
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Inj Date : 17-MAR-2023 14:16
Operator : PC Inst ID: voa6.i
Smp Info : VSTD100;VSTD100;1;8;
Misc Info : V6;WATER;0;1;
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Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.178	4.178	(1.000)	373326	50.0000	
	2 Dichlorodifluoromethane	85	0.972	0.972	(0.233)	277552	100.000	103.28
	3 Chloromethane	50	1.077	1.077	(0.258)	356664	100.000	103.86
	4 Propionitrile	54	3.649	3.649	(0.873)	500613	1000.00	951.68
	5 Vinyl Chloride	62	1.141	1.141	(0.273)	323679	100.000	110.07
	6 Bromomethane	94	1.336	1.336	(0.320)	172412	100.000	101.97
	7 Chloroethane	64	1.400	1.400	(0.335)	198128	100.000	95.00
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	383047	100.000	109.82
	9 Acrolein	56	1.441	1.441	(0.345)	43228	200.000	200.51
	10 Acetone	43	1.970	1.970	(0.472)	202318	200.000	212.66
	11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	221993	100.000	99.02
	12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	1027812	2000.00	2017.91
	13 Acetonitrile	39	2.194	2.194	(0.525)	351546	1000.00	1011.77
	14 Allyl Chloride	41	2.194	2.194	(0.525)	837914	100.000	97.49
	15 Iodomethane	142	2.026	2.026	(0.485)	585867	200.000	199.05
	16 Acrylonitrile	53	2.528	2.528	(0.605)	252967	200.000	203.05
	17 Methylene Chloride	84	2.299	2.299	(0.550)	376597	100.000	105.01
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	1106413	100.000	93.72
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	1741977	200.000	211.48
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	313441	100.000	99.12

21 Vinyl Acetate	43	2.993	2.993 (0.716)	1981655	200.000	207.98
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	568085	100.000	99.19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	103957	100.000	101.54(M)
	24 2-Butanone	43	3.570	3.570	(0.855)	280363	200.000	209.74
	25 Methacrylonitrile	41	3.818	3.818	(0.914)	333435	100.000	96.90(a)
	26 2,2-Dichloropropane	77	3.506	3.506	(0.839)	466243	100.000	103.62
	27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	376913	100.000	98.50
	28 Chloroform	83	3.904	3.904	(0.935)	596625	100.000	93.86
	29 Bromochloromethane	128	3.788	3.788	(0.907)	202913	100.000	93.70
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	363757	100.000	105.41
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	487144	100.000	102.49
	32 1,1-Dichloropropene	75	4.275	4.275	(0.861)	441031	100.000	104.91
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	468518	100.000	95.65
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	410835	100.000	102.08
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	399036	100.000	98.10
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	589182	50.0000	
	37 Benzene	78	4.507	4.507	(0.908)	1431863	100.000	98.83
	38 Trichloroethene	130	5.205	5.205	(1.048)	400557	100.000	102.64
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	506448	100.000	98.48
	40 Methyl Methacrylate	41	5.602	5.602	(1.341)	326581	100.000	98.10
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	327658	200.000	209.56
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	383165	100.000	98.14
	43 2-Nitropropane	43	5.966	5.966	(1.428)	109575	100.000	93.48(H)
	44 Dibromomethane	93	5.550	5.550	(1.118)	241011	100.000	96.77
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	694559	200.000	196.15
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	659873	100.000	101.58
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	559622	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1390406	100.000	100.22
	49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	405857	100.000	93.57
	50 Toluene	91	6.445	6.445	(0.841)	1494031	100.000	101.75
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	550884	100.000	102.15
	52 2-Hexanone	43	7.083	7.083	(0.924)	479633	200.000	197.36
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	304907	100.000	95.51
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	626632	100.000	98.77
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	450128	100.000	99.81
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	311869	100.000	105.95
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	396776	100.000	100.55
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	288303	100.000	100.14
	59 Chlorobenzene	112	7.690	7.690	(1.003)	1045060	100.000	99.59
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	404357	100.000	100.00
	61 Ethylbenzene	106	7.795	7.795	(1.017)	520880	100.000	100.87
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	1310496	200.000	201.65
	63 o-Xylene	106	8.241	8.241	(1.075)	649022	100.000	99.39
	64 Styrene	104	8.256	8.256	(1.077)	1112835	100.000	103.13
	66 Bromoform	173	8.410	8.410	(1.097)	318471	100.000	102.13
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1551960	100.000	103.76
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	506447	100.000	95.00
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	535221	100.000	101.20
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	305929	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	374411	100.000	93.45
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	125897	100.000	100.52
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	1823425	100.000	107.24
	74 Bromobenzene	156	8.803	8.803	(0.911)	502549	100.000	102.17
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1382649	100.000	104.83

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	1136061	100.000	99.37
77	4-Chlorotoluene	91	9.066	9.066 (0.938)	1330298	100.000	103.24

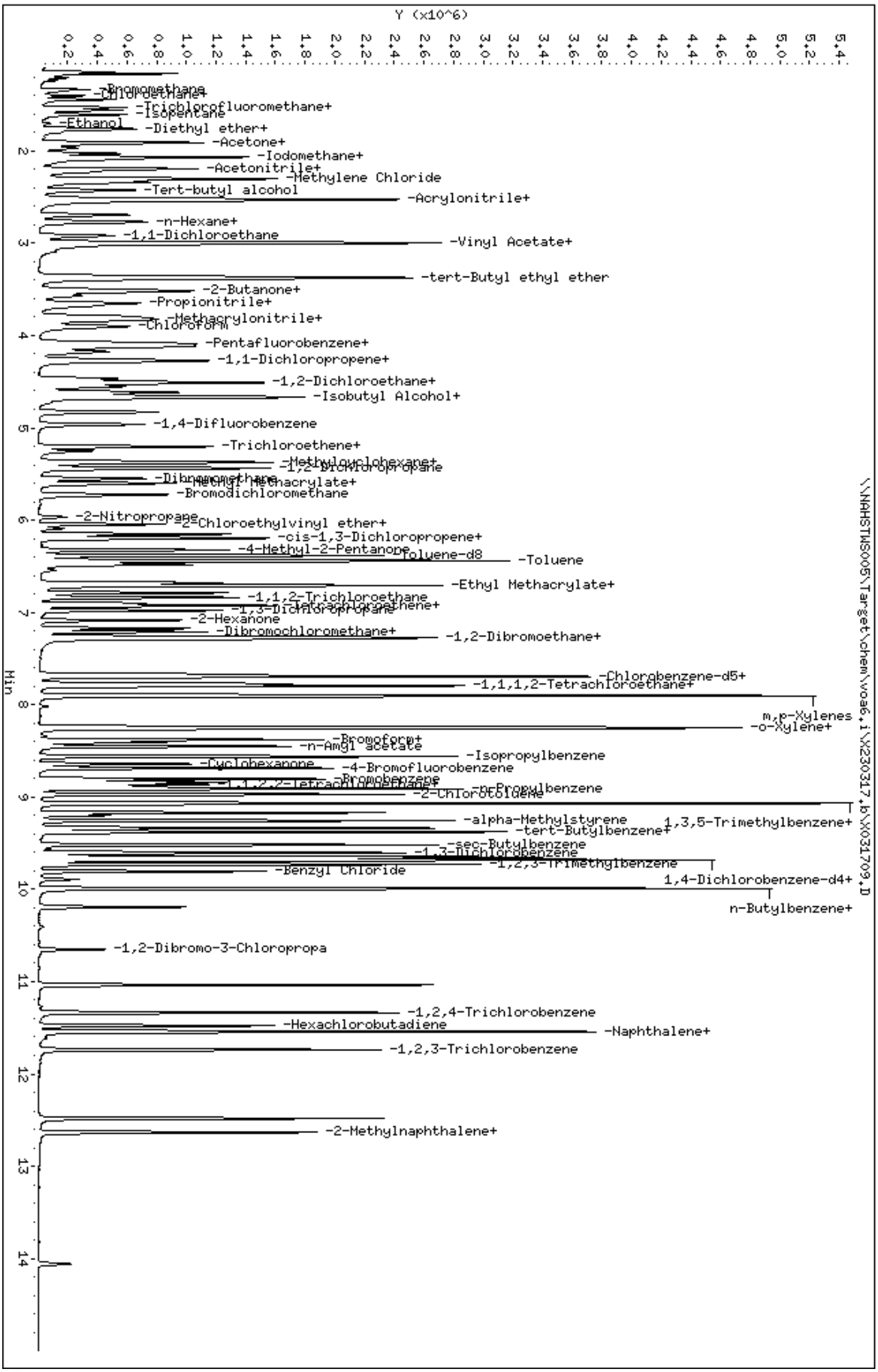
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	1129372	100.000	107.51
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1408896	100.000	104.16
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	1542474	100.000	108.34
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	1423483	100.000	112.05
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	869404	100.000	102.20
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	897147	100.000	98.12
86	Benzyl Chloride	91	9.804	9.804	(1.279)	885238	100.000	98.29
87	n-Butylbenzene	91	9.992	9.992	(1.034)	1188413	100.000	116.06
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	866723	100.000	101.86
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	98490	100.000	98.83
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	693645	100.000	111.50
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	283471	100.000	106.15
92	Naphthalene	128	11.540	11.540	(1.194)	1624520	100.000	108.80
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	651606	100.000	109.46
146	Methyl acetate	43	2.228	2.228	(0.533)	224921	100.000	104.81
138	Freon TF	101	1.913	1.913	(0.458)	233445	100.000	105.32
141	Cyclohexane	56	4.118	4.118	(0.986)	457578	100.000	106.56
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	116378	200.000	190.90
147	Methylcyclohexane	55	5.377	5.377	(1.083)	889964	100.000	109.39(A)
135	1,4-Dioxane	88	5.594	5.594	(1.339)	92798	2000.00	1873.30
132	n-Butanol	56	5.253	5.253	(1.258)	199313	2000.00	2030.57
131	Methyl Acrylate	55	3.683	3.683	(0.882)	416973	100.000	107.84
133	Ethyl Acrylate	55	5.377	5.377	(1.287)	889964	100.000	109.24
136	n-Hexane	57	2.768	2.768	(0.663)	370085	100.000	100.00
139	Diethyl ether	59	1.752	1.752	(0.419)	235295	100.000	94.06
148	Tert-butyl alcohol	59	2.427	2.427	(0.581)	765382	2000.00	1957.70
149	Isopropyl alcohol	45	2.093	2.093	(0.501)	428529	2000.00	2051.26
156	Diisopropyl ether	45	2.997	2.997	(0.717)	1123796	100.000	96.96
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	804932	100.000	109.05
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1443919	100.000	98.41
167	Ethanol	45	1.703	1.703	(0.408)	62408	2000.00	1863.93
172	tert-Butyl formate	59	4.616	4.616	(1.105)	612085	200.000	201.21(A)
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	798841	2000.00	1852.48
174	tert-Amyl methyl ether	73	4.665	4.665	(1.117)	1227733	100.000	91.90
175	tert-Butyl ethyl ether	59	3.372	3.372	(0.807)	1182106	100.000	97.37
176	tert-Amyl alcohol	59	4.616	4.616	(1.105)	612085	2000.00	1915.86
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	1637388	2000.00	1903.98
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	804932	100.000	(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	270902	100.000	107.00
152	Amyl alcohol	42	6.899	6.899	(0.900)	209583	2000.00	2077.98
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	450874	100.000	97.48
159	Propylene oxide	43	1.801	1.801	(0.431)	45025	200.000	193.32
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	210157	2000.00	2151.74
162	Butyl acrylate	55	8.249	8.249	(1.076)	809554	100.000	98.00
182	Epichlorohydrin	57	6.093	6.093	(1.227)	129213	400.000	384.42
M 94	1,2-Dichloroethylene (total)	96				690354	200.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	710271	100.000	106.49
130	Ethyl Acetate	43	3.649	3.649	(0.873)	374414	100.000	97.10
134	Cyclohexanone	55	8.642	8.642	(0.894)	343740	2000.00	1891.88
185	Isoprene	39	1.767	1.767	(0.423)	74498	100.000	104.02
188	Isopropyl acetate	43	4.672	4.672	(0.941)	1027473	100.000	96.31
187	n-Amyl acetate	43	8.451	8.451	(1.102)	671526	100.000	96.63

189 n-Butyl acetate	43	7.210	7.210 (0.940)	605118	100.000	102.09(H)
150 Allyl alcohol	57	2.768	2.768 (0.663)	370085	2000.00	2000.01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.212	1.212	(0.290)	91272	400.000	410.61(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	852352	100.000	96.38
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	832592	100.000	113.61
202 Isobutylene	41	1.239	1.239	(0.297)	30934	100.000	99.67(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	516446	100.000	114.34

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Sample Info: VSTD100;VSTD100;1;8;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031709.D
Inj Date : 17-MAR-2023 14:16
InstruID : voa6.i
LabSampID : VSTD100

Chloroprene (126-99-8)

BEFORE

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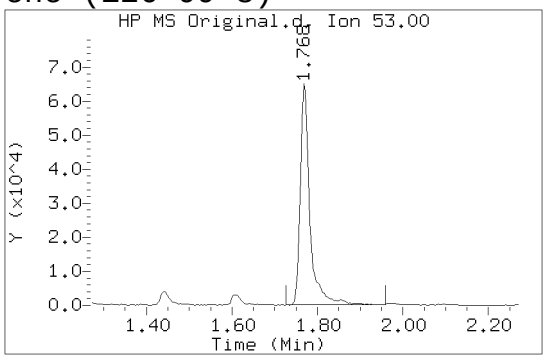

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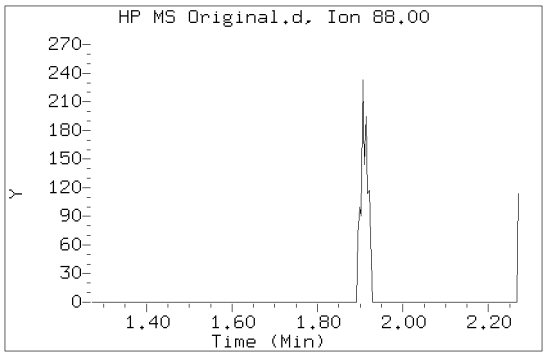

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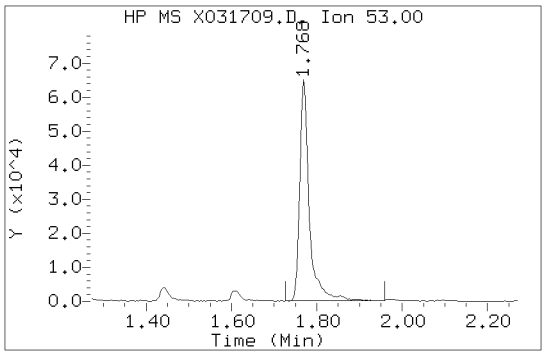

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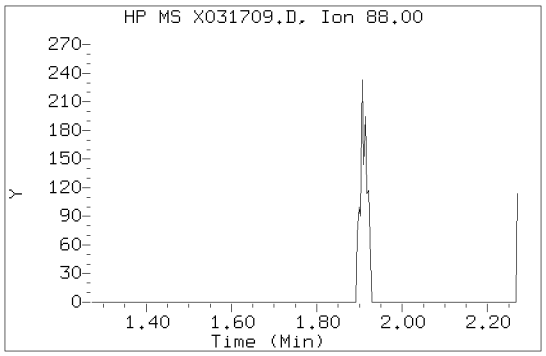

Acetaldehyde (75-07-0)

BEFORE

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AREA
91272
HEIGHT
72768
21-Mar-2023
10:17
linh
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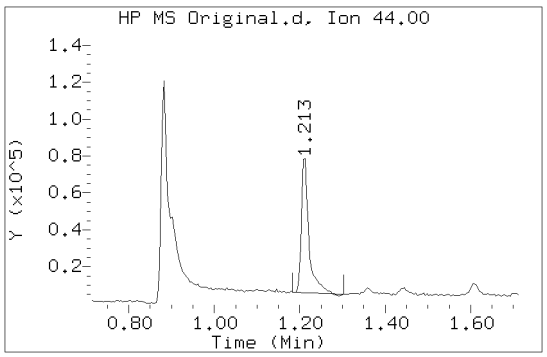

BEFORE

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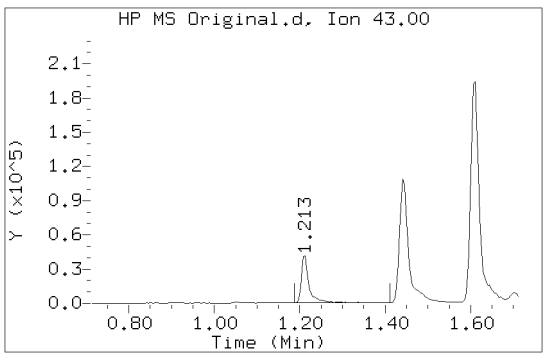

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AFTER

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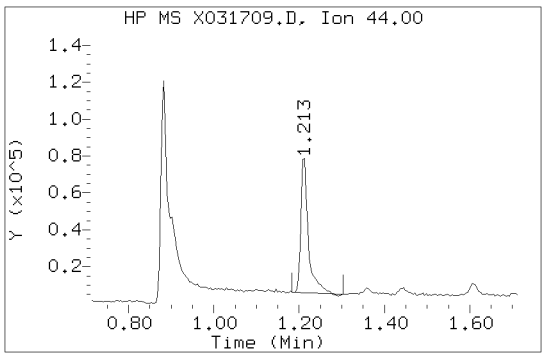

AFTER

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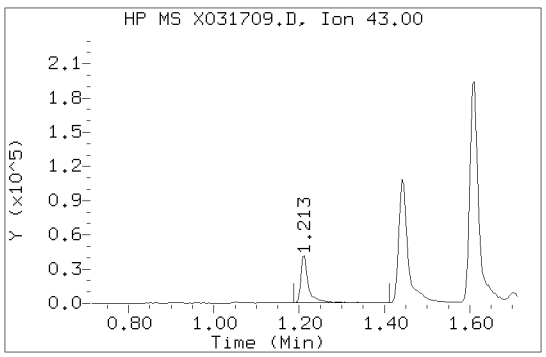

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Acetaldehyde (75-07-0)

Reason Code:

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10:17
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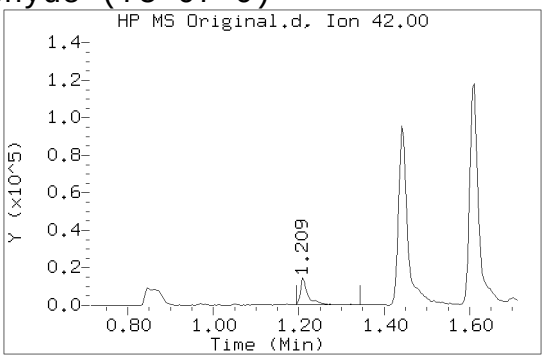

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21-Mar-2023
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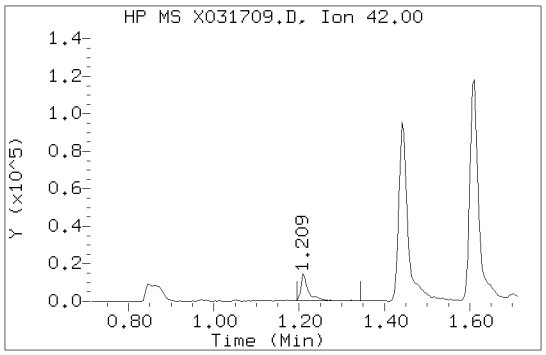

Isobutylene (115-11-7)

Reason Code:

BEFORE

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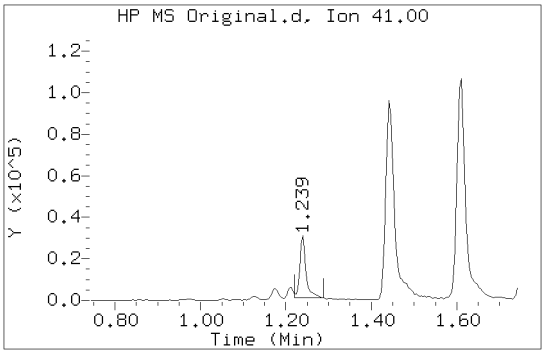

AFTER

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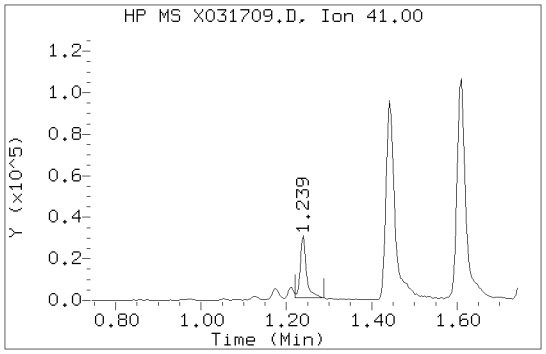

BEFORE

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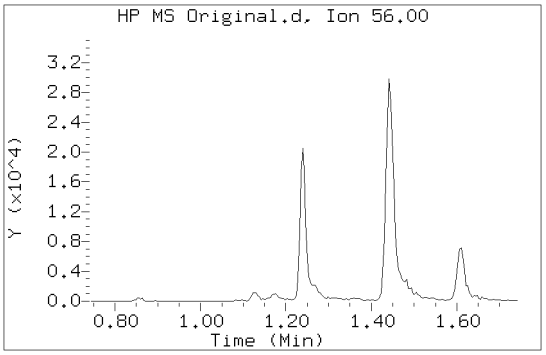

AFTER

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21-Mar-2023
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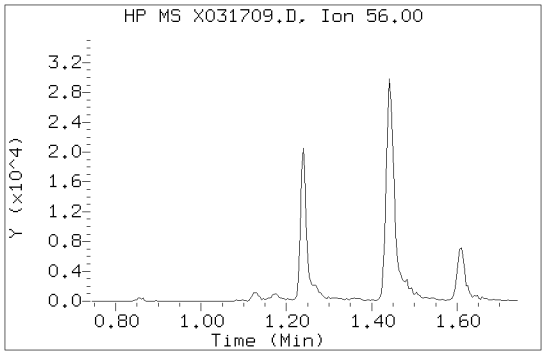

BEFORE

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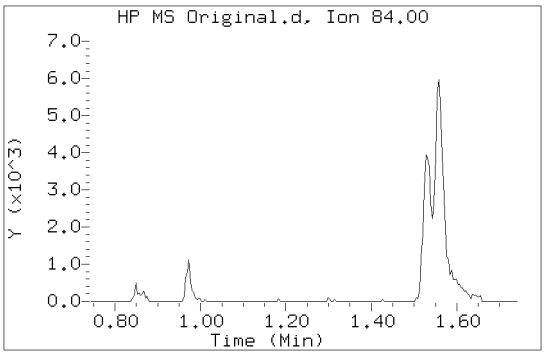

AFTER

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21-Mar-2023
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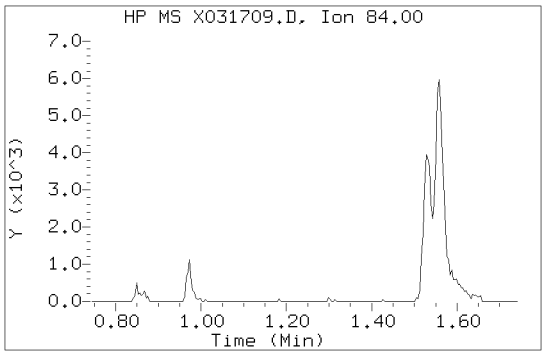

ALS Laboratory Group

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Smp Info : VSTD150;VSTD150;1;9;
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Cal Date : 17-MAR-2023 14:16 Cal File: X031709.D
Als bottle: 11 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.177	4.177	(1.000)	360022	50.0000	
2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	404362	150.000	148.84
3	Chloromethane	50	1.077	1.077	(0.258)	545496	150.000	164.71
4	Propionitrile	54	3.645	3.645	(0.873)	675386	1500.00	1331.38
5	Vinyl Chloride	62	1.141	1.141	(0.273)	456072	150.000	160.83
6	Bromomethane	94	1.336	1.336	(0.320)	252433	150.000	154.82
7	Chloroethane	64	1.400	1.400	(0.335)	273745	150.000	136.12
8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	546040	150.000	162.34
9	Acrolein	56	1.441	1.441	(0.345)	65230	300.000	311.99
10	Acetone	43	1.970	1.970	(0.472)	258914	300.000	283.91
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	315932	150.000	146.13
12	Isobutyl Alcohol	43	4.672	4.672	(1.118)	1386063	3000.00	2821.83
13	Acetonitrile	39	2.194	2.194	(0.525)	483631	1500.00	1443.36
14	Allyl Chloride	41	2.194	2.194	(0.525)	1147277	150.000	138.42
15	Iodomethane	142	2.026	2.026	(0.485)	998873	300.000	314.95
16	Acrylonitrile	53	2.532	2.532	(0.606)	355305	300.000	295.73
17	Methylene Chloride	84	2.299	2.299	(0.550)	522386	150.000	151.81
18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	1507291	150.000	132.40
19	Carbon Disulfide	76	2.067	2.067	(0.495)	2561317	300.000	322.44
20	trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	441105	150.000	144.65

21 Vinyl Acetate	43	2.993	2.993 (0.716)	2688384	300.000	292.58
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	800341	150.000	144.92

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	148488	150.000	150.39(M)
	24 2-Butanone	43	3.570	3.570	(0.855)	381950	300.000	296.30
	25 Methacrylonitrile	41	3.814	3.814	(0.913)	442319	150.000	133.30(a)
	26 2,2-Dichloropropane	77	3.506	3.506	(0.839)	659792	150.000	152.17
	27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	526207	150.000	142.59
	28 Chloroform	83	3.900	3.900	(0.934)	832851	150.000	135.87
	29 Bromochloromethane	128	3.791	3.791	(0.908)	283104	150.000	135.57
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	489100	150.000	147.27
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	696517	150.000	151.95
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	629929	150.000	157.52
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	669631	150.000	143.72
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	594286	150.000	155.24
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	545784	150.000	138.70
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	560454	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	2038961	150.000	147.95
	38 Trichloroethene	130	5.205	5.205	(1.048)	575466	150.000	155.03
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	718783	150.000	146.93
	40 Methyl Methacrylate	41	5.602	5.602	(1.341)	437883	150.000	136.40
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	455925	300.000	306.54
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	535458	150.000	144.17
	43 2-Nitropropane	43	5.966	5.966	(1.428)	153482	150.000	135.78(H)
	44 Dibromomethane	93	5.549	5.549	(1.118)	337672	150.000	142.54
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	966015	300.000	282.73
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	942525	150.000	152.54
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	539996	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1880549	150.000	140.48
	49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	574510	150.000	139.24
	50 Toluene	91	6.445	6.445	(0.841)	2120957	150.000	149.70
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	793381	150.000	154.66
	52 2-Hexanone	43	7.086	7.086	(0.924)	667149	300.000	284.50
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	427729	150.000	138.86
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	887204	150.000	144.92
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	650760	150.000	149.55
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	445786	150.000	156.96
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	559643	150.000	146.99
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	412465	150.000	149.49
	59 Chlorobenzene	112	7.690	7.690	(1.003)	1511690	150.000	149.30
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	592699	150.000	151.91
	61 Ethylbenzene	106	7.799	7.799	(1.017)	759617	150.000	152.45
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	1886888	300.000	300.90
	63 o-Xylene	106	8.241	8.241	(1.075)	931024	150.000	147.75
	64 Styrene	104	8.256	8.256	(1.077)	1605850	150.000	154.23
	66 Bromoform	173	8.410	8.410	(1.097)	468208	150.000	155.61
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	2232488	150.000	154.69
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	728449	150.000	140.90
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	758344	150.000	148.68
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	296706	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	618448	150.000	159.17
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	181079	150.000	149.57
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	2643795	150.000	160.32
	74 Bromobenzene	156	8.803	8.803	(0.911)	733579	150.000	153.78
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1997400	150.000	156.16

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	1681359	150.000	151.64
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	1932295	150.000	154.62

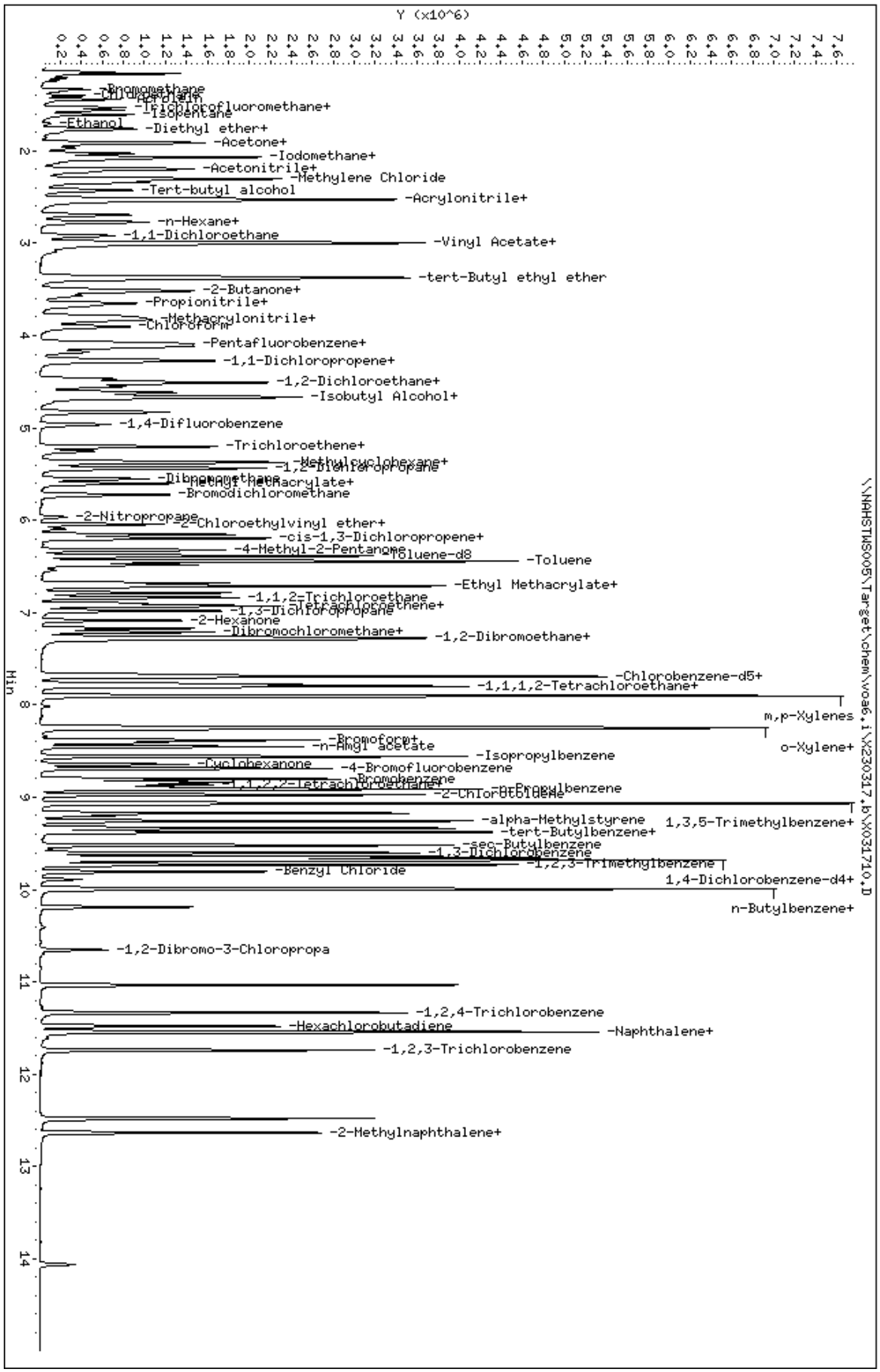
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	1627651	150.000	159.77
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	2043656	150.000	155.79
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	2257002	150.000	163.45
82	p-Isopropyltoluene	119	9.650	9.650	(0.999)	2060292	150.000	167.21
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	1265740	150.000	153.41
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	1295932	150.000	146.14
86	Benzyl Chloride	91	9.804	9.804	(1.279)	1294607	150.000	148.17
87	n-Butylbenzene	91	9.992	9.992	(1.034)	1709547	150.000	172.15
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	1253901	150.000	151.95
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	139207	150.000	143.35
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	995398	150.000	164.99
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	412820	150.000	147.67
92	Naphthalene	128	11.540	11.540	(1.194)	2264623	150.000	156.39
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	908422	150.000	157.35
146	Methyl acetate	43	2.228	2.228	(0.533)	306447	150.000	148.08
138	Freon TF	101	1.913	1.913	(0.458)	333134	150.000	147.97
141	Cyclohexane	56	4.121	4.121	(0.987)	641070	150.000	147.34
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	154659	300.000	263.06
147	Methylcyclohexane	55	5.377	5.377	(1.083)	1263502	150.000	163.27(A)
135	1,4-Dioxane	88	5.602	5.602	(1.341)	133909	3000.00	2803.10
132	n-Butanol	56	5.253	5.253	(1.258)	285255	3000.00	2998.18
131	Methyl Acrylate	55	3.683	3.683	(0.882)	563933	150.000	151.24
133	Ethyl Acrylate	55	5.377	5.377	(1.287)	1263502	150.000	160.82
136	n-Hexane	57	2.768	2.768	(0.663)	525312	150.000	98.41
139	Diethyl ether	59	1.756	1.756	(0.420)	319485	150.000	132.43
148	Tert-butyl alcohol	59	2.427	2.427	(0.581)	1049842	3000.00	2784.53
149	Isopropyl alcohol	45	2.093	2.093	(0.501)	588937	3000.00	2923.27
156	Diisopropyl ether	45	2.997	2.997	(0.717)	1507494	150.000	134.87
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	1120935	150.000	156.59
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	2095307	150.000	147.25
167	Ethanol	45	1.700	1.700	(0.407)	82527	3000.00	2555.91
172	tert-Butyl formate	59	4.616	4.616	(1.105)	850071	300.000	289.78(A)
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	1139904	3000.00	2739.47
174	tert-Amyl methyl ether	73	4.665	4.665	(1.117)	1735204	150.000	134.69
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.808)	1615721	150.000	138.00
176	tert-Amyl alcohol	59	4.616	4.616	(1.105)	850071	3000.00	2759.10
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	2309789	3000.00	2823.53
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	1120935	150.000	(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	379473	150.000	155.42
152	Amyl alcohol	42	6.899	6.899	(0.900)	299929	3000.00	3081.83
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	633511	150.000	142.03
159	Propylene oxide	43	1.801	1.801	(0.431)	46947	300.000	209.02(M)
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	293949	3000.00	3119.05
162	Butyl acrylate	55	8.249	8.249	(1.076)	1162675	150.000	145.87
182	Epichlorohydrin	57	6.093	6.093	(1.227)	178760	600.000	559.09
M 94	1,2-Dichloroethylene (total)	96				967312	300.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	1026967	150.000	158.75
130	Ethyl Acetate	43	3.653	3.653	(0.874)	505997	150.000	136.07
134	Cyclohexanone	55	8.642	8.642	(0.894)	463882	3000.00	2632.48
185	Isoprene	39	1.771	1.771	(0.424)	103972	150.000	150.54
188	Isopropyl acetate	43	4.672	4.672	(0.941)	1386824	150.000	136.65
187	n-Amyl acetate	43	8.451	8.451	(1.102)	984651	150.000	146.84

189 n-Butyl acetate	43	7.210	7.210 (0.940)	861499	150.000	150.64(H)
150 Allyl alcohol	57	2.768	2.768 (0.663)	525312	3000.00	1965.60

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.212	1.212	(0.290)	122135	600.000	570.08(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	1201062	150.000	140.75
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	1183481	150.000	167.36
202 Isobutylene	41	1.239	1.239	(0.297)	44113	150.000	147.39(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	745586	150.000	170.21

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Date : 17-MAR-2023 14:37
Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

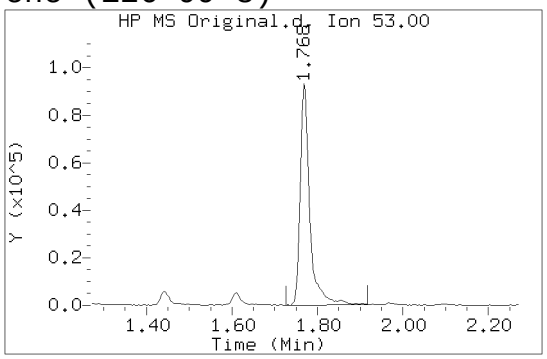
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031710.D
Inj Date : 17-MAR-2023 14:37
InstruID : voa6.i
LabSampID : VSTD150

Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
53
AREA
148488
HEIGHT
93161
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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AREA
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HEIGHT
93161
21-Mar-2023
10:17
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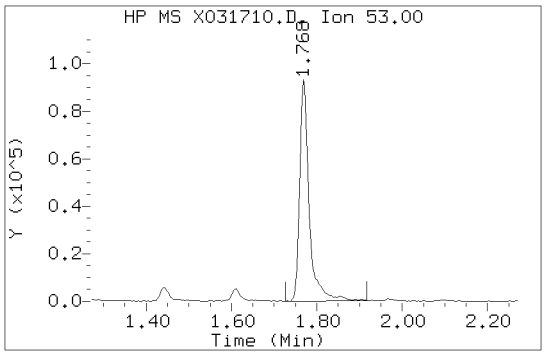

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21-Mar-2023
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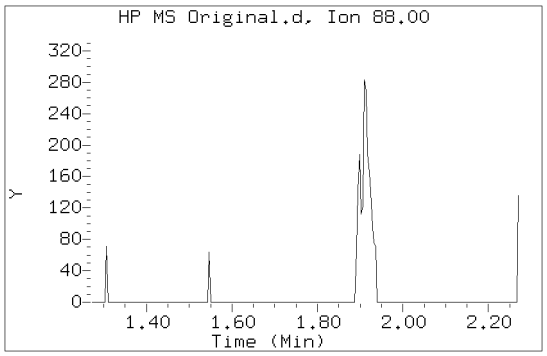

AFTER

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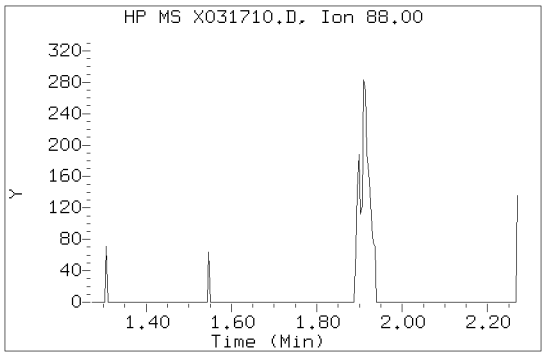

Propylene oxide ()

Reason Code:

BEFORE

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21-Mar-2023
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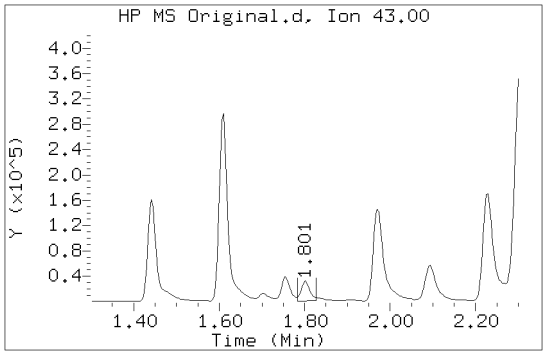

AFTER

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AREA
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HEIGHT
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21-Mar-2023
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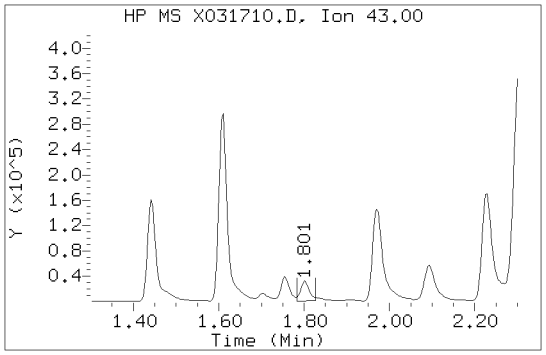

BEFORE

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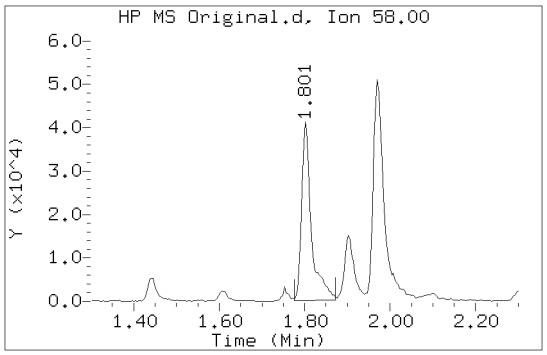

AFTER

MASS
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HEIGHT
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21-Mar-2023
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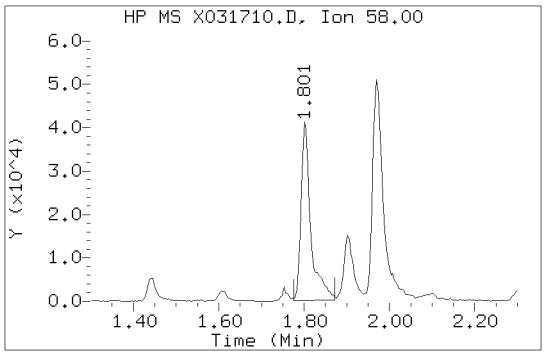

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Inj Date : 17-MAR-2023 14:37
InstruID : voa6.i
LabSampID : VSTD150

Acetaldehyde (75-07-0)

Reason Code:

BEFORE
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AREA
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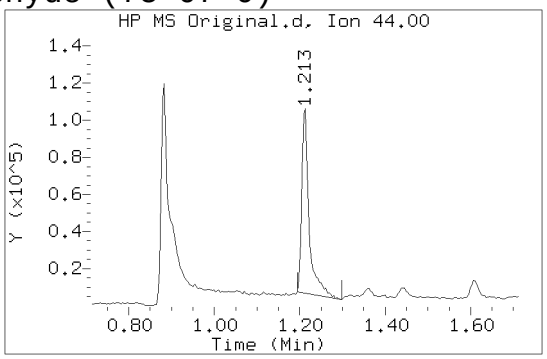
HEIGHT
99537
21-Mar-2023
10:17
linh
pham



AFTER
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HEIGHT
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21-Mar-2023
10:17
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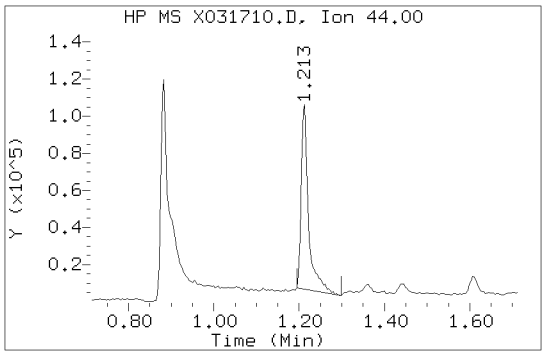

BEFORE
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AREA
71463
HEIGHT
57191
21-Mar-2023
10:17
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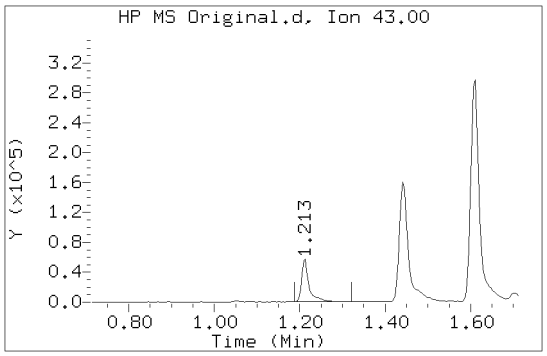

AFTER
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21-Mar-2023
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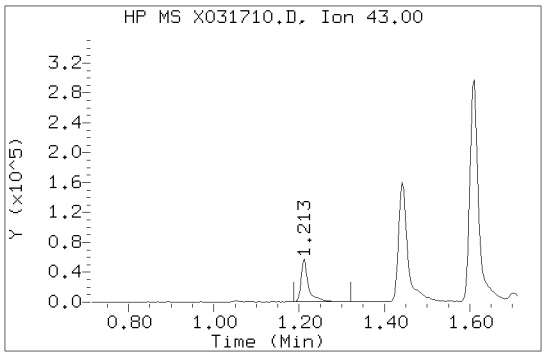

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21-Mar-2023
10:17
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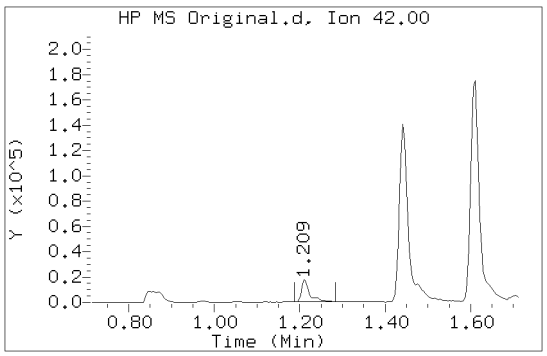

AFTER
MASS
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AREA
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HEIGHT
17504
21-Mar-2023
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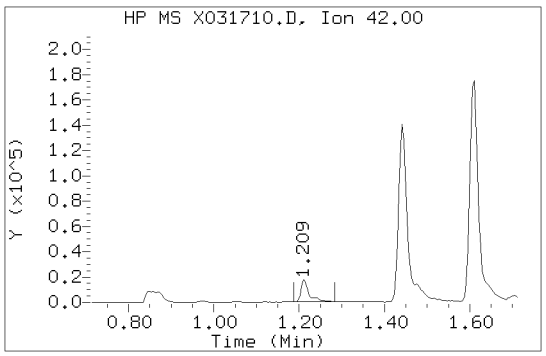

Isobutylene (115-11-7)

Reason Code:

BEFORE
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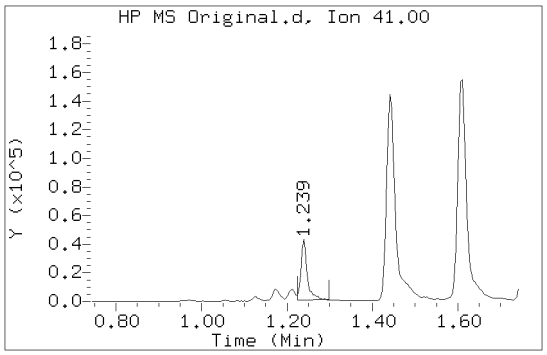
HEIGHT
42538
21-Mar-2023
10:17
linh
pham



AFTER
MASS
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AREA
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HEIGHT
42538
21-Mar-2023
10:17
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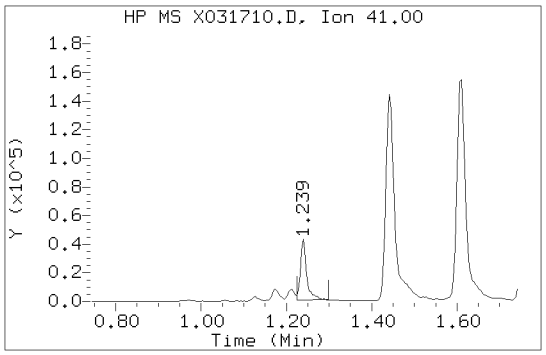
pham



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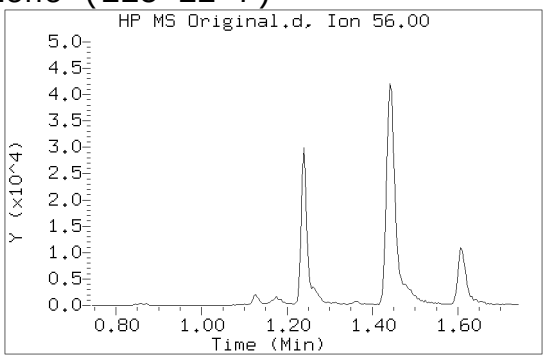
Inj Date : 17-MAR-2023 14:37
InstruID : voa6.i
LabSampID : VSTD150

Isobutylene (115-11-7)

Reason Code:

BEFORE

MASS
56
AREA
0
HEIGHT
0
21-Mar-2023
10:17
linh
pham



AFTER

MASS
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21-Mar-2023
10:17
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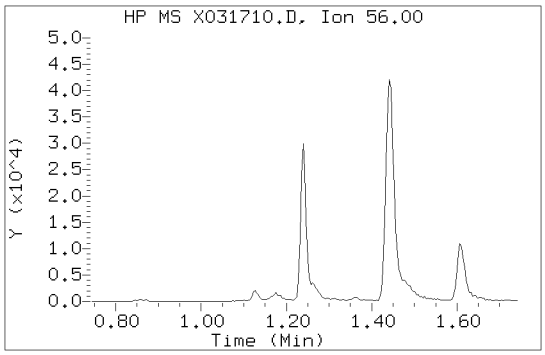

BEFORE

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21-Mar-2023
10:17
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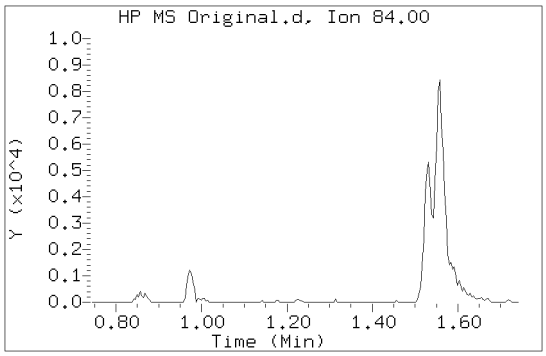

AFTER

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21-Mar-2023
10:17
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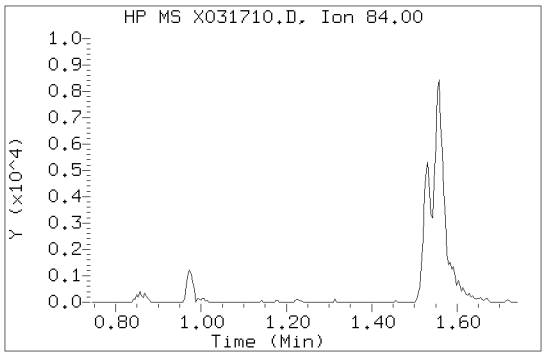

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031711.D Page 1
Report Date: 21-Mar-2023 10:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031711.D
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Inj Date : 17-MAR-2023 14:58
Operator : PC Inst ID: voa6.i
Smp Info : VSTD200;VSTD200;1;10;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 21-Mar-2023 10:19 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 14:37 Cal File: X031710.D
Als bottle: 12 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.174	(1.000)	382623	50.0000	
2 Dichlorodifluoromethane	85	0.972	0.972	(0.233)	508155	200.000	171.49
3 Chloromethane	50	1.077	1.077	(0.258)	747416	200.000	212.36(A)
4 Propionitrile	54	3.649	3.649	(0.874)	1060690	2000.00	1967.42
5 Vinyl Chloride	62	1.141	1.141	(0.273)	609345	200.000	202.19(A)
6 Bromomethane	94	1.332	1.332	(0.319)	322590	200.000	186.17
7 Chloroethane	64	1.400	1.400	(0.335)	364656	200.000	170.61
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	727031	200.000	203.38(A)
9 Acrolein	56	1.441	1.441	(0.345)	87434	400.000	392.68
10 Acetone	43	1.970	1.970	(0.472)	386486	400.000	400.87(A)
11 1,1-Dichloroethene	96	1.910	1.910	(0.458)	428270	200.000	186.39
12 Isobutyl Alcohol	43	4.672	4.672	(1.119)	2338866	4000.00	4480.35(A)
13 Acetonitrile	39	2.194	2.194	(0.526)	701809	2000.00	1970.78
14 Allyl Chloride	41	2.194	2.194	(0.526)	1676095	200.000	190.28
15 Iodomethane	142	2.026	2.026	(0.485)	1450729	400.000	392.56
16 Acrylonitrile	53	2.528	2.528	(0.606)	532477	400.000	417.02(A)
17 Methylene Chloride	84	2.299	2.299	(0.551)	711938	200.000	195.16
18 Methyl tert-butyl ether	73	2.532	2.532	(0.607)	2152991	200.000	177.95
19 Carbon Disulfide	76	2.067	2.067	(0.495)	3489173	400.000	413.30(A)
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	599454	200.000	184.97

21 Vinyl Acetate	43	2.993	2.993 (0.717)	3897625	400.000	399.13
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	1123384	200.000	191.40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	1.767	1.767	(0.423)	196404	200.000	187.17(M)
24	2-Butanone	43	3.570	3.570	(0.855)	597331	400.000	436.01(A)
25	Methacrylonitrile	41	3.814	3.814	(0.914)	701077	200.000	198.80(a)
26	2,2-Dichloropropane	77	3.507	3.507	(0.840)	905769	200.000	196.64
27	cis-1,2-Dichloroethene	96	3.522	3.522	(0.844)	740213	200.000	188.74
28	Chloroform	83	3.900	3.900	(0.934)	1193616	200.000	183.23
29	Bromochloromethane	128	3.788	3.788	(0.908)	405212	200.000	182.58
$ 30	Dibromofluoromethane	113	4.095	4.095	(0.981)	702510	200.000	199.31
31	1,1,1-Trichloroethane	97	4.080	4.080	(0.978)	985300	200.000	202.26(A)
32	1,1-Dichloropropene	75	4.275	4.275	(0.862)	929663	200.000	203.52(A)
33	1,2-Dichloroethane	62	4.552	4.552	(0.918)	1038702	200.000	195.17
34	Carbon Tetrachloride	117	4.260	4.260	(0.859)	870574	200.000	199.09
$ 35	1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	874210	200.000	208.52(A)
* 36	1,4-Difluorobenzene	114	4.961	4.961	(1.000)	640185	50.0000	
37	Benzene	78	4.507	4.507	(0.909)	3052433	200.000	193.90
38	Trichloroethene	130	5.201	5.201	(1.048)	835702	200.000	197.09
39	Bromodichloromethane	83	5.722	5.722	(1.153)	1118953	200.000	200.24(A)
40	Methyl Methacrylate	41	5.602	5.602	(1.342)	750946	200.000	220.10(A)
41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	728191	400.000	428.62(A)
42	1,2-Dichloropropane	63	5.433	5.433	(1.095)	833776	200.000	196.54
43	2-Nitropropane	43	5.966	5.966	(1.429)	271652	200.000	226.13(AH)
44	Dibromomethane	93	5.550	5.550	(1.119)	523396	200.000	193.42
45	4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	1658099	400.000	427.93(A)
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	1474080	200.000	208.85(A)
* 47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	612379	50.0000	
$ 48	Toluene-d8	98	6.385	6.385	(0.833)	2796978	200.000	184.24
49	Ethyl Methacrylate	69	6.715	6.715	(1.354)	978643	200.000	207.65
50	Toluene	91	6.445	6.445	(0.841)	3187867	200.000	198.41
51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	1252849	200.000	213.82(A)
52	2-Hexanone	43	7.086	7.086	(0.924)	1164187	400.000	437.78(A)
53	1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	673694	200.000	192.86
54	1,3-Dichloropropane	76	6.981	6.981	(0.911)	1376622	200.000	198.29
55	Dibromochloromethane	129	7.173	7.173	(0.935)	1002838	200.000	203.22(A)
56	Tetrachloroethene	164	6.925	6.925	(0.903)	638334	200.000	198.19
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	878199	200.000	203.39(A)
58	1-Chlorohexane	55	7.694	7.694	(1.551)	638798	200.000	201.88(A)
59	Chlorobenzene	112	7.694	7.694	(1.003)	2272370	200.000	197.91
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	910994	200.000	205.89(A)
61	Ethylbenzene	106	7.799	7.799	(1.017)	1107853	200.000	196.05
62	m,p-Xylenes	106	7.904	7.904	(1.031)	2838121	400.000	399.10
63	o-Xylene	106	8.241	8.241	(1.075)	1395031	200.000	195.22
64	Styrene	104	8.256	8.256	(1.077)	2393440	200.000	202.70(A)
66	Bromoform	173	8.410	8.410	(1.097)	724955	200.000	212.46(A)
67	Isopropylbenzene	105	8.560	8.560	(1.116)	3313382	200.000	202.45(A)
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	1195955	200.000	204.13(A)
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	1161000	200.000	200.79(A)
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	336227	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	864319	200.000	196.30
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	309734	200.000	225.33(A)
73	n-Propylbenzene	91	8.912	8.912	(0.922)	3859840	200.000	206.55(A)
74	Bromobenzene	156	8.803	8.803	(0.911)	1119674	200.000	207.13(A)
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	2992359	200.000	206.45(A)

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	2505512	200.000	199.41
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	2968864	200.000	209.64(A)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031711.D Page 3
Report Date: 21-Mar-2023 10:19

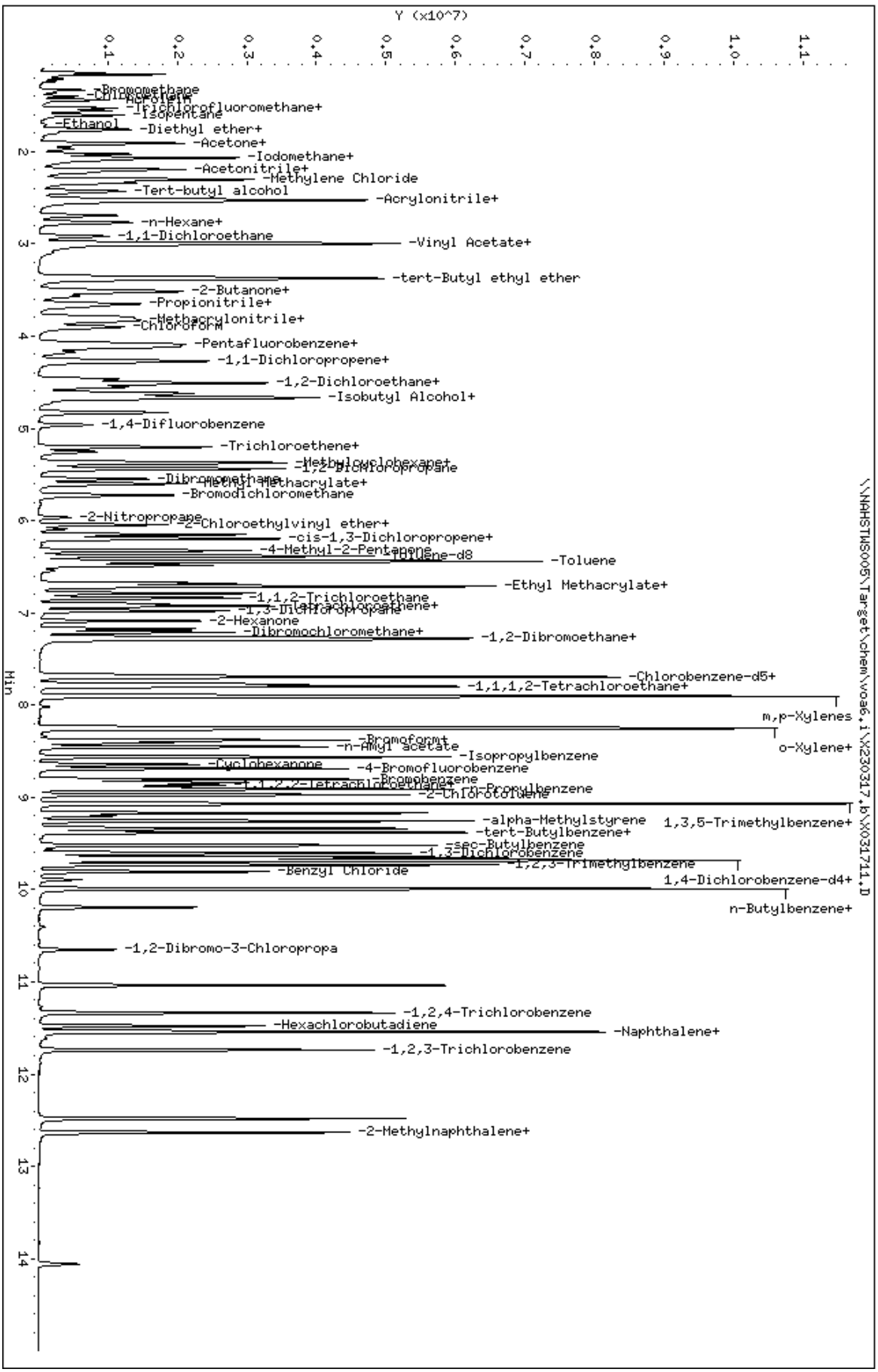
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	2279547	200.000	197.45
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	2919311	200.000	196.38
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	3349438	200.000	214.06(A)
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	3003074	200.000	215.08(A)
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	1888740	200.000	202.01(A)
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	1970060	200.000	196.05
86	Benzyl Chloride	91	9.808	9.808	(1.279)	2013195	200.000	202.61(A)
87	n-Butylbenzene	91	9.992	9.992	(1.034)	2523960	200.000	224.29(A)
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	1856903	200.000	198.57
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.102)	226912	200.000	205.56(A)
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	1440571	200.000	210.71(A)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	573515	200.000	171.65
92	Naphthalene	128	11.540	11.540	(1.194)	3504081	200.000	213.55(A)
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	1347744	200.000	206.01(A)
146	Methyl acetate	43	2.224	2.224	(0.533)	464224	200.000	211.08(A)
138	Freon TF	101	1.910	1.910	(0.458)	434707	200.000	175.10
141	Cyclohexane	56	4.121	4.121	(0.987)	901709	200.000	185.25
142	Tetrahydrofuran	42	3.840	3.840	(0.920)	246866	400.000	395.10
147	Methylcyclohexane	55	5.377	5.377	(1.084)	2015199	200.000	227.98(A)
135	1,4-Dioxane	88	5.602	5.602	(1.342)	215437	4000.00	4243.34(A)
132	n-Butanol	56	5.253	5.253	(1.259)	490231	4000.00	4828.66(A)
131	Methyl Acrylate	55	3.679	3.679	(0.881)	865912	200.000	218.52(A)
133	Ethyl Acrylate	55	5.377	5.377	(1.288)	2015199	200.000	241.35(A)
136	n-Hexane	57	2.768	2.768	(0.663)	676168	200.000	80.35
139	Diethyl ether	59	1.756	1.756	(0.421)	465264	200.000	181.47
148	Tert-butyl alcohol	59	2.431	2.431	(0.582)	1646951	4000.00	4110.24(A)
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	904875	4000.00	4226.17(A)
156	Diisopropyl ether	45	2.997	2.997	(0.718)	2153852	200.000	181.31
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	1815775	200.000	223.84(A)
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	3136262	200.000	194.50
167	Ethanol	45	1.703	1.703	(0.408)	115616	4000.00	3369.19
172	tert-Butyl formate	59	4.620	4.620	(1.107)	1512520	400.000	485.15(A)
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	1974305	4000.00	4183.91(A)
174	tert-Amyl methyl ether	73	4.665	4.665	(1.118)	2849607	200.000	208.13(A)
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.809)	2317574	200.000	186.26
176	tert-Amyl alcohol	59	4.620	4.620	(1.107)	1512520	4000.00	4619.26(A)
151	4-Methyl-2-pentanol	45	6.715	6.715	(1.354)	4066831	4000.00	4352.23(A)
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	1815775	200.000	(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	513913	200.000	198.05
152	Amyl alcohol	42	6.899	6.899	(0.900)	541570	4000.00	4906.99(A)
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	872859	200.000	184.14
159	Propylene oxide	43	1.801	1.801	(0.432)	67647	400.000	283.39(M)
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	514576	4000.00	4814.71(A)
162	Butyl acrylate	55	8.249	8.249	(1.076)	1894255	200.000	209.56(A)
182	Epichlorohydrin	57	6.093	6.093	(1.228)	300828	800.000	823.70(A)
M 94	1,2-Dichloroethylene (total)	96				1339667	400.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	1552688	200.000	211.81(A)
130	Ethyl Acetate	43	3.649	3.649	(0.874)	758155	200.000	191.84
134	Cyclohexanone	55	8.642	8.642	(0.894)	768170	4000.00	3846.88
185	Isoprene	39	1.767	1.767	(0.423)	145984	200.000	198.89
188	Isopropyl acetate	43	4.672	4.672	(0.942)	2339721	200.000	201.84(A)
187	n-Amyl acetate	43	8.451	8.451	(1.102)	1694710	200.000	222.86(A)

189 n-Butyl acetate	43	7.210	7.210 (0.940)	1490673	200.000	229.84(AH)
150 Allyl alcohol	57	2.768	2.768 (0.663)	676168	4000.00	1601.42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.212	1.212	(0.291)	184725	800.000	811.65(AM)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	2015999	200.000	208.34
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	1807738	200.000	225.43(A)
202 Isobutylene	41	1.239	1.239	(0.297)	67118	200.000	211.01(AM)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	1134482	200.000	228.55(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031711.D
Inj Date : 17-MAR-2023 14:58
InstruID : voa6.i
LabSampID : VSTD200

Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
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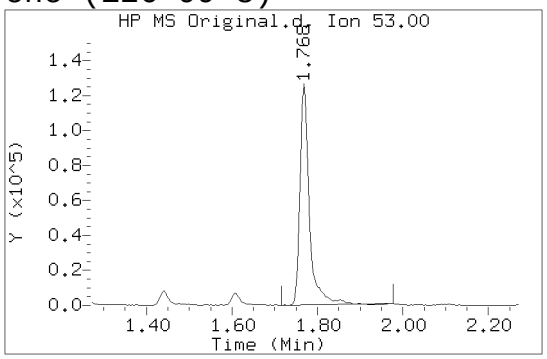
196404
HEIGHT
126532
21-Mar-2023
10:17
linh
pham



AFTER

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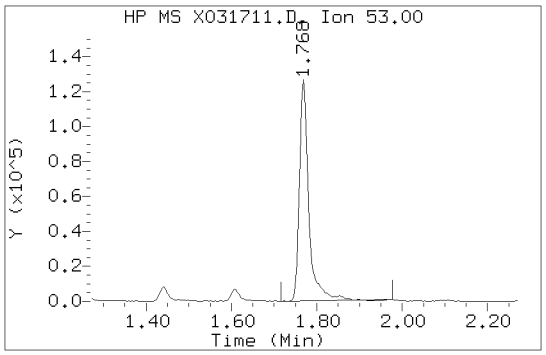

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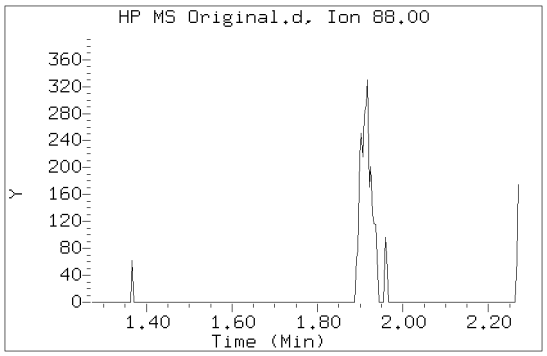

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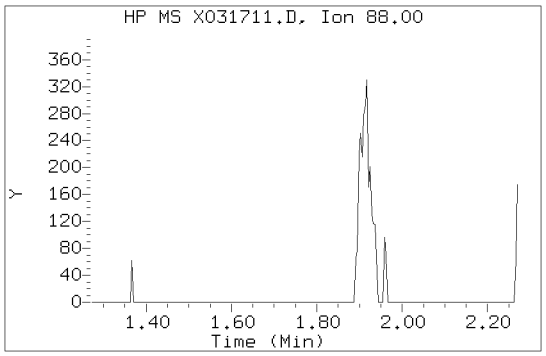

Propylene oxide ()

Reason Code:

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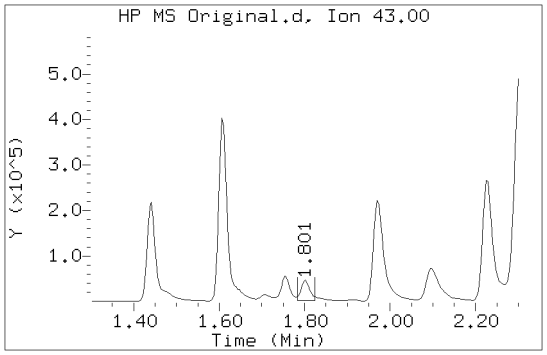

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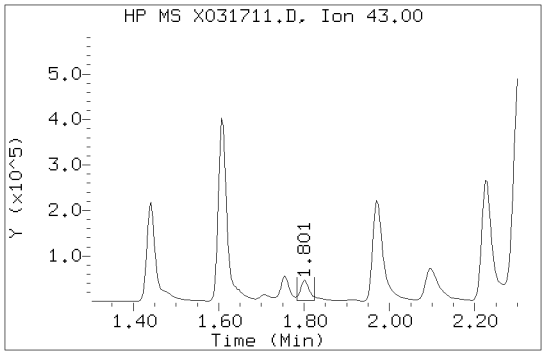

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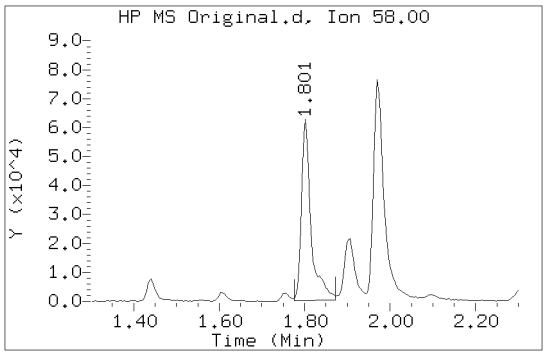

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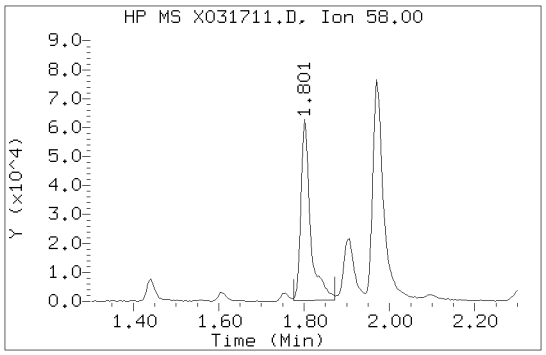

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InstruID : voa6.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

Reason Code:

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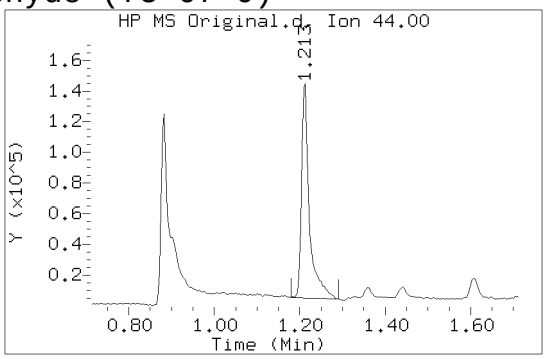

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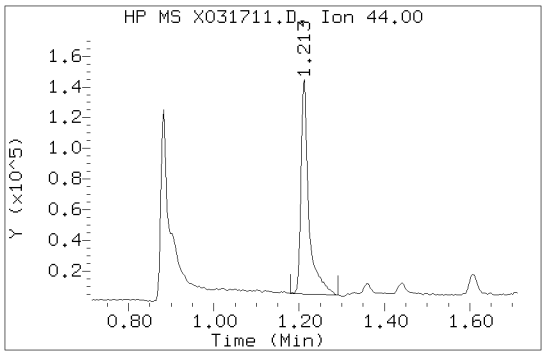

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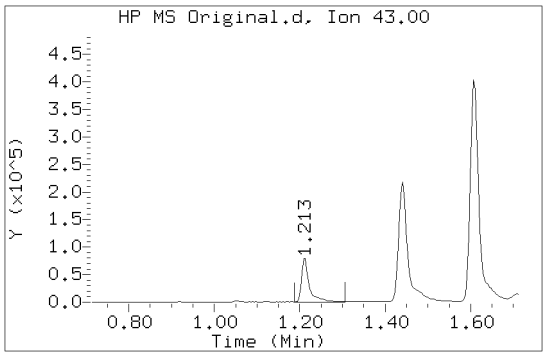

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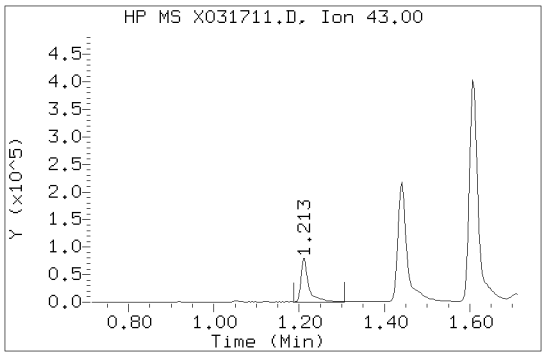

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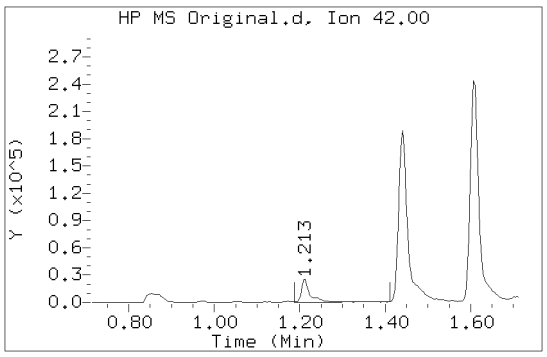

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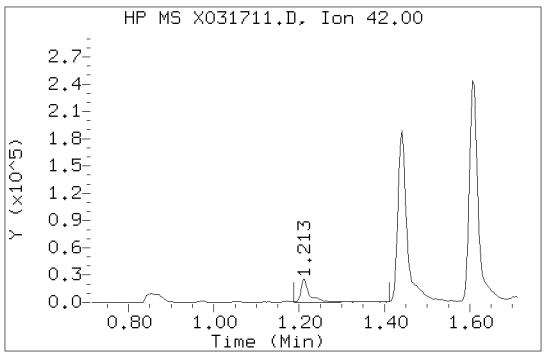

Isobutylene (115-11-7)

Reason Code:

BEFORE

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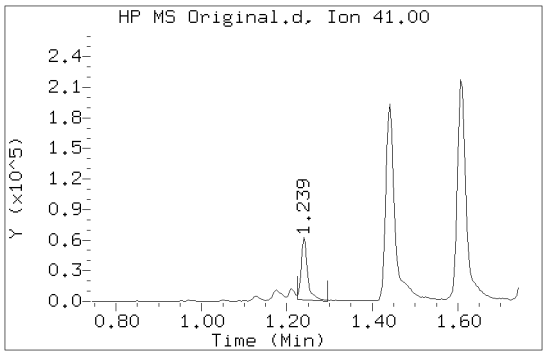

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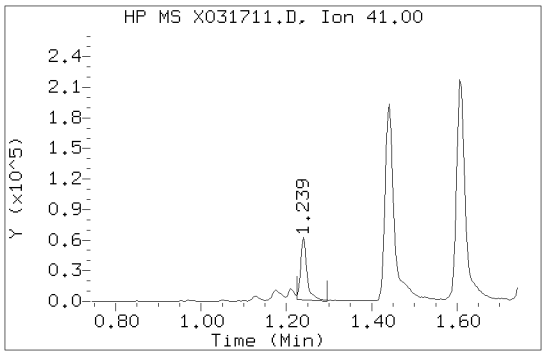

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InstruID : voa6.i
LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

BEFORE
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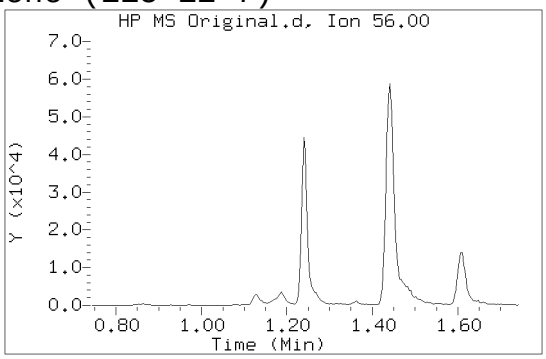

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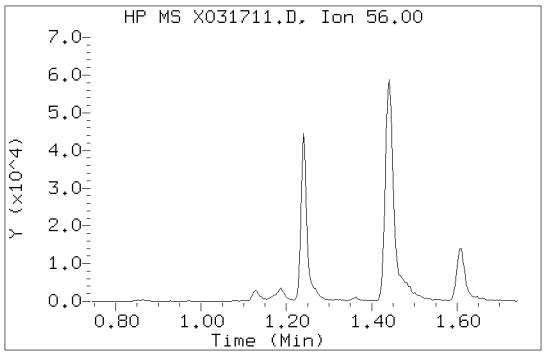

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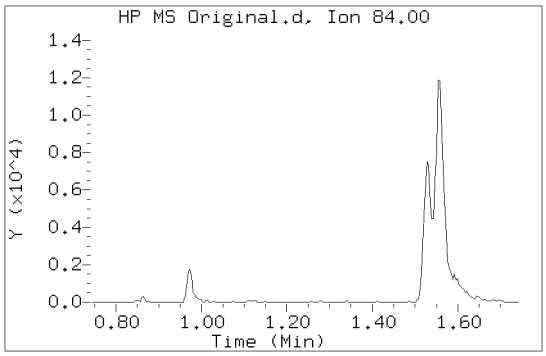

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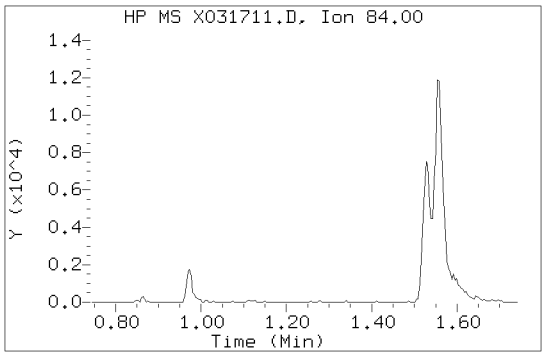

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Report Date: 21-Mar-2023 10:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031713.D
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Inj Date : 17-MAR-2023 15:40
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;ICV
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 21-Mar-2023 10:19 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 14:58 Cal File: X031711.D
Als bottle: 14 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.178	4.174	(1.000)	447337	50.0000	
2	Dichlorodifluoromethane	85	0.973	0.972	(0.233)	125229	41.3548	41.35
3	Chloromethane	50	1.077	1.077	(0.258)	189515	46.0566	46.05
4	Propionitrile	54	3.645	3.649	(0.873)	300803	477.229	477.22
5	Vinyl Chloride	62	1.141	1.141	(0.273)	160708	45.6115	45.61
6	Bromomethane	94	1.340	1.332	(0.321)	105837	52.2437	52.24
7	Chloroethane	64	1.404	1.400	(0.336)	106611	42.6655	42.66
8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	184888	44.2396	44.23
9	Acrolein	56	1.445	1.441	(0.346)	21974	86.8596	86.85
10	Acetone	43	1.970	1.970	(0.472)	134726	115.876	115.87
11	1,1-Dichloroethene	96	1.913	1.910	(0.458)	111784	41.6123	41.61
12	Isobutyl Alcohol	43	4.672	4.672	(1.118)	646931	1059.99	1059.98
13	Acetonitrile	39	2.195	2.194	(0.525)	199524	479.239	479.23
14	Allyl Chloride	41	2.195	2.194	(0.525)	462527	44.9148	44.91
15	Iodomethane	142	2.026	2.026	(0.485)	308789	98.1689	98.16
16	Acrylonitrile	53	2.532	2.528	(0.606)	145802	97.6701	97.67
17	Methylene Chloride	84	2.303	2.299	(0.551)	200013	45.5833	45.58
18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	635231	44.9099	44.90
19	Carbon Disulfide	76	2.067	2.067	(0.495)	808321	81.8970	81.89
20	trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	161777	42.6982	42.69

21 Vinyl Acetate	43	2.993	2.993 (0.716)	1190970	104.317	104.31
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	303151	44.1784	44.17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	1.771	1.767	(0.424)	51295	41.8136	41.81(M)
	24 2-Butanone	43	3.574	3.570	(0.856)	172251	107.543	107.54
	25 Methacrylonitrile	41	3.821	3.814	(0.915)	208141	50.4845	50.48(a)
	26 2,2-Dichloropropane	77	3.510	3.507	(0.840)	245945	45.4765	45.47
	27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	198010	43.1856	43.18
	28 Chloroform	83	3.904	3.900	(0.935)	354779	46.5832	46.58
	29 Bromochloromethane	128	3.791	3.788	(0.908)	116267	44.8093	44.80
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	222095	53.3323	53.33
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	260399	45.7219	45.72
	32 1,1-Dichloropropene	75	4.279	4.275	(0.862)	216942	44.6577	44.65
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	301577	53.2827	53.28
	34 Carbon Tetrachloride	117	4.264	4.260	(0.859)	200181	43.0463	43.04
$	35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	260640	53.9569	53.95
*	36 1,4-Difluorobenzene	114	4.965	4.961	(1.000)	680845	50.0000	
	37 Benzene	78	4.507	4.507	(0.908)	782401	46.7344	46.73
	38 Trichloroethene	130	5.205	5.201	(1.048)	192215	42.6262	42.62
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	302269	50.8638	50.86
	40 Methyl Methacrylate	41	5.602	5.602	(1.341)	204589	51.2910	51.29
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	192610	106.604	106.60
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	218132	48.3489	48.34
	43 2-Nitropropane	43	5.966	5.966	(1.428)	74170	52.8113	52.81
	44 Dibromomethane	93	5.550	5.550	(1.118)	146234	50.8144	50.81
	45 4-Methyl-2-Pentanone	43	6.322	6.325	(0.824)	442523	103.091	103.09
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	383752	51.1256	51.12
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	678434	50.0000	
$	48 Toluene-d8	98	6.386	6.385	(0.833)	830535	49.3824	49.38
	49 Ethyl Methacrylate	69	6.708	6.715	(1.351)	227831	45.4566	45.45
	50 Toluene	91	6.446	6.445	(0.841)	815198	45.7983	45.79
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	332900	53.4229	53.42
	52 2-Hexanone	43	7.083	7.086	(0.924)	309958	105.209	105.20
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	183155	47.3284	47.32
	54 1,3-Dichloropropane	76	6.982	6.981	(0.911)	377705	49.1094	49.10
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	263793	48.2534	48.25
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	151884	42.5660	42.56
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	241939	50.5793	50.57
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	142824	44.2112	44.21
	59 Chlorobenzene	112	7.690	7.694	(1.003)	586122	46.0779	46.07
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.772	(1.014)	230019	46.9252	46.92
	61 Ethylbenzene	106	7.799	7.799	(1.017)	273832	43.7423	43.74
	62 m,p-Xylenes	106	7.900	7.904	(1.030)	695067	88.2252	88.22
	63 o-Xylene	106	8.241	8.241	(1.075)	352582	44.5380	44.53
	64 Styrene	104	8.256	8.256	(1.077)	633869	48.4578	48.45
	66 Bromoform	173	8.410	8.410	(1.097)	190524	50.4021	50.40
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	776949	42.8514	42.85
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	316083	49.5811	49.58
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	337169	52.5034	52.50
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	365870	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	247298	51.6156	51.61(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	78770	52.1347	52.13
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	931403	45.8038	45.80
	74 Bromobenzene	156	8.803	8.803	(0.911)	285872	48.5995	48.59
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	715245	45.3485	45.34

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	643431	47.0625	47.06
77	4-Chlorotoluene	91	9.070	9.069 (0.939)	759380	49.2796	49.27

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031713.D Page 3
Report Date: 21-Mar-2023 10:21

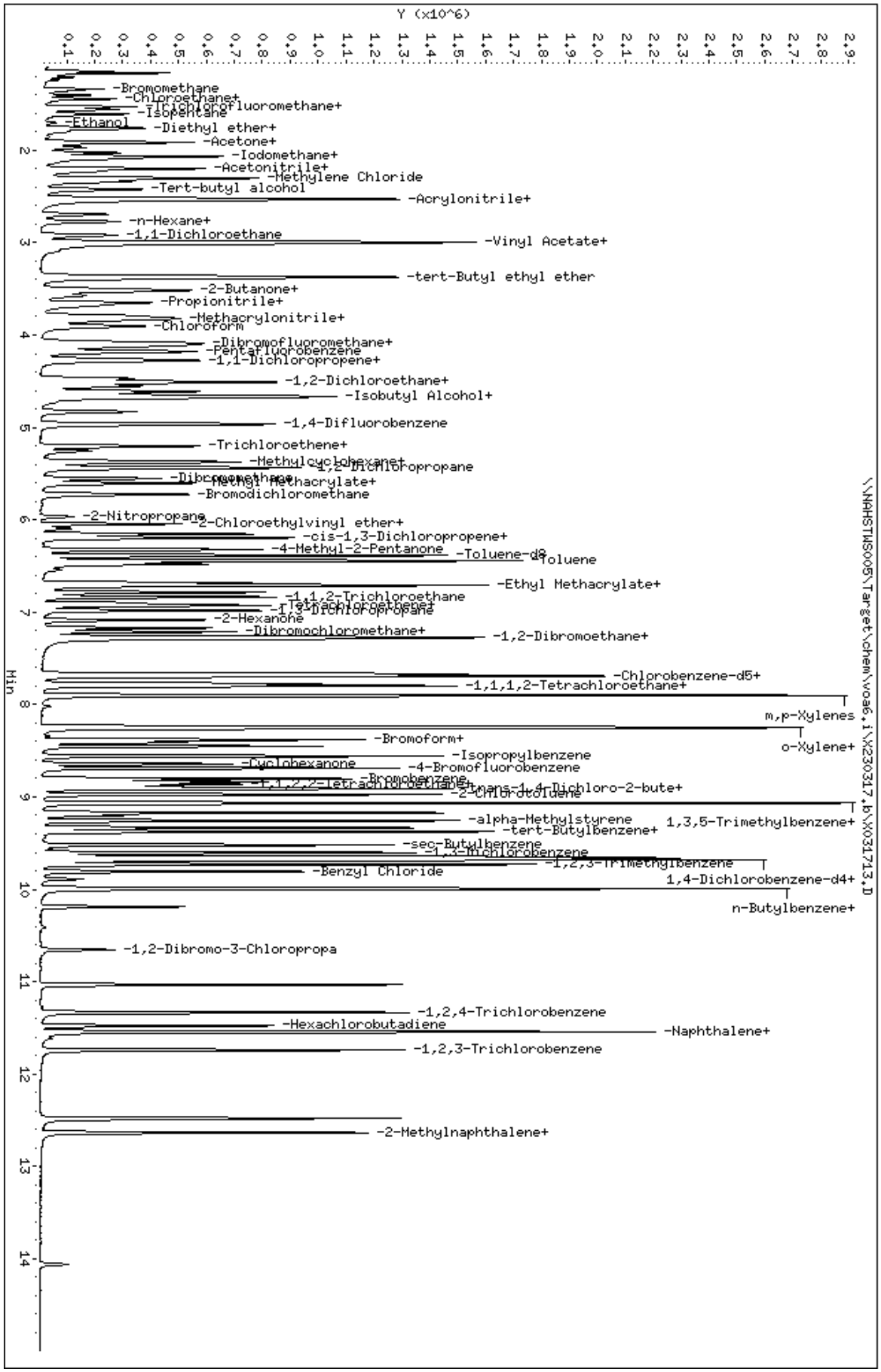
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	539588	42.9532	42.95
79	1,2,4-Trimethylbenzene	105	9.377	9.381	(0.971)	738107	45.6311	45.63
81	sec-Butylbenzene	105	9.519	9.523	(0.985)	716233	42.0655	42.06
82	p-Isopropyltoluene	119	9.647	9.651	(0.998)	680520	44.7915	44.79
83	1,3-Dichlorobenzene	146	9.602	9.606	(0.994)	474406	46.6312	46.63
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	504387	46.1290	46.12
86	Benzyl Chloride	91	9.808	9.808	(1.279)	555092	51.5864	51.58
87	n-Butylbenzene	91	9.992	9.992	(1.034)	605034	49.4104	49.41
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	498274	48.9673	48.96
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.651	(1.103)	57812	49.2619	49.26
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	381306	51.2551	51.25
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	141634	48.8975	48.89
92	Naphthalene	128	11.540	11.540	(1.194)	950722	53.2461	53.24
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	364201	51.1604	51.16
146	Methyl acetate	43	2.232	2.224	(0.534)	125629	48.8600	48.86
138	Freon TF	101	1.913	1.910	(0.458)	100166	40.8571	40.85
141	Cyclohexane	56	4.121	4.121	(0.987)	192967	40.9633	40.96
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	77686	106.349	106.34
147	Methylcyclohexane	55	5.377	5.377	(1.083)	467668	49.7485	49.74
135	1,4-Dioxane	88	5.595	5.602	(1.339)	56366	949.601	949.60
132	n-Butanol	56	5.253	5.253	(1.257)	103021	893.946	893.94
131	Methyl Acrylate	55	3.683	3.679	(0.882)	246891	53.2924	53.29
133	Ethyl Acrylate	55	5.377	5.377	(1.287)	467668	47.9091	47.90
136	n-Hexane	57	2.768	2.768	(0.663)	140253	47.0012	47.00
139	Diethyl ether	59	1.756	1.756	(0.420)	143799	47.9753	47.97
148	Tert-butyl alcohol	59	2.423	2.431	(0.580)	433912	926.243	926.24
149	Isopropyl alcohol	45	2.090	2.097	(0.500)	241695	965.524	965.52
156	Diisopropyl ether	45	2.997	2.997	(0.717)	650281	46.8236	46.82
160	2-Methylnaphthalene	142	12.635	12.634	(1.308)	488718	55.3663	55.36
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	823368	46.9270	46.92
167	Ethanol	45	1.700	1.703	(0.407)	39210	977.329	977.32
172	tert-Butyl formate	59	4.612	4.620	(1.104)	359899	98.7399	98.73
173	3,3-Dimethyl-1-butanol	57	7.285	7.289	(0.950)	478985	916.228	916.22
174	tert-Amyl methyl ether	73	4.665	4.665	(1.117)	736716	46.0245	46.02
175	tert-Butyl ethyl ether	59	3.372	3.375	(0.807)	675212	46.4157	46.41
176	tert-Amyl alcohol	59	4.612	4.620	(1.104)	359899	940.131	940.13
151	4-Methyl-2-pentanol	45	6.708	6.715	(1.351)	969092	975.165	975.16
180	1-Methylnaphthalene	142	12.635	12.634	(1.308)	488718		(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	129783	42.7804	42.78
152	Amyl alcohol	42	6.899	6.899	(0.900)	119741	979.301	979.30
158	Dichlorofluoromethane	67	1.531	1.527	(0.367)	258449	46.6365	46.63
159	Propylene oxide	43	1.801	1.801	(0.431)	28721	102.916	102.91
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	119120	1006.05	1006.04
162	Butyl acrylate	55	8.249	8.249	(1.076)	512190	51.1478	51.14
182	Epichlorohydrin	57	6.093	6.093	(1.227)	78556	202.250	202.25
M 94	1,2-Dichloroethylene (total)	96				359787	85.8838	85.88
M 95	Xylenes (total)	106				1047649	132.763	132.76
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	373878	46.8716	46.87
130	Ethyl Acetate	43	3.649	3.649	(0.873)	229301	49.6297	49.62
134	Cyclohexanone	55	8.642	8.642	(0.894)	224152	1031.57	1031.57
185	Isoprene	39	1.767	1.767	(0.423)	46906	54.6615	54.66(M)
188	Isopropyl acetate	43	4.672	4.672	(0.941)	646931	52.4764	52.47

187 n-Amyl acetate	43	8.451	8.451 (1.102)	429141	50.9400	50.94
189 n-Butyl acetate	43	7.210	7.210 (0.940)	377004	52.4708	52.47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	140253	940.463	940.46
194 Acetaldehyde	44	1.212	1.212	(0.290)	56950	213.429	213.42(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	549227	51.2328	51.23
200 Dimethyl Disulfide	94	6.194	6.198	(0.808)	465053	52.3475	52.34
202 Isobutylene	41	1.239	1.239	(0.297)	22110	59.4566	59.45(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	301168	55.7587	55.75

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Client ID: ICV
Sample Info: CCV;CCV;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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InstruID : voa6.i
LabSampID : ICV

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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21-Mar-2023
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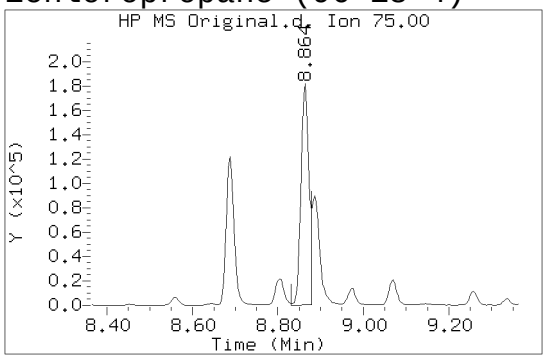

AFTER

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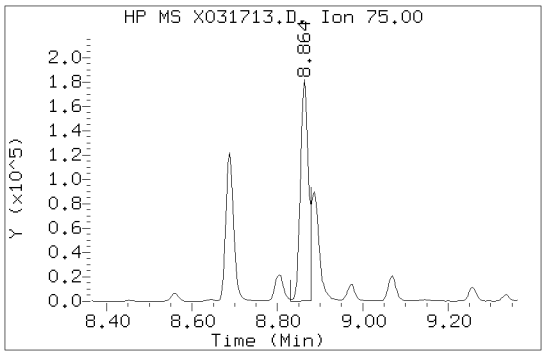

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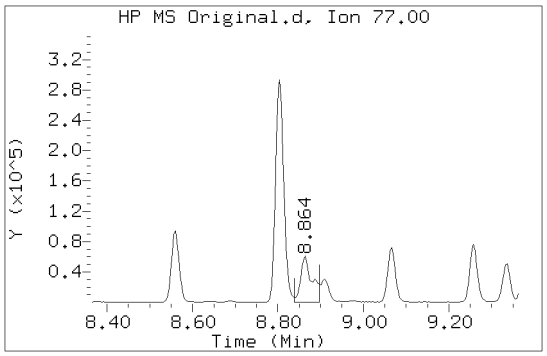

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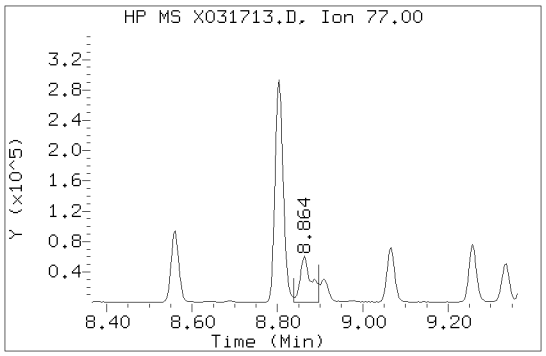

Chloroprene (126-99-8)

Reason Code:

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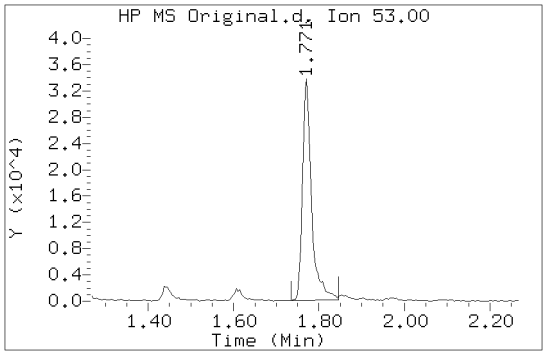

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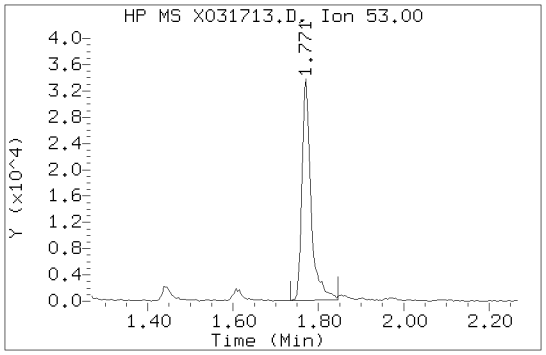

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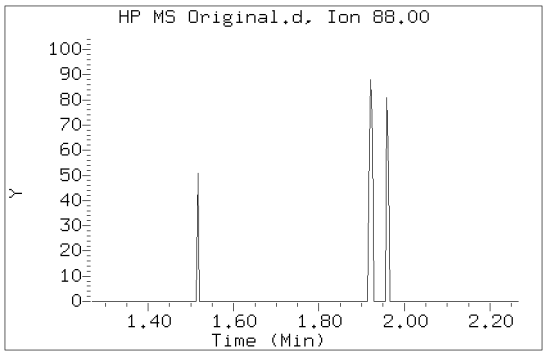

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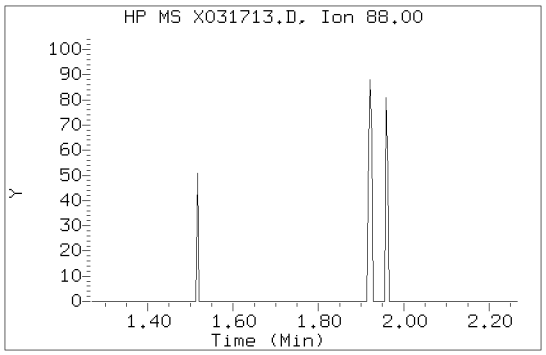

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InstruID : voa6.i
LabSampID : ICV

Isoprene (78-79-5)

Reason Code:

BEFORE

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21-Mar-2023
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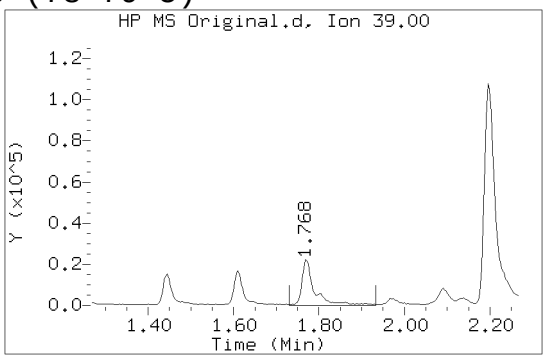

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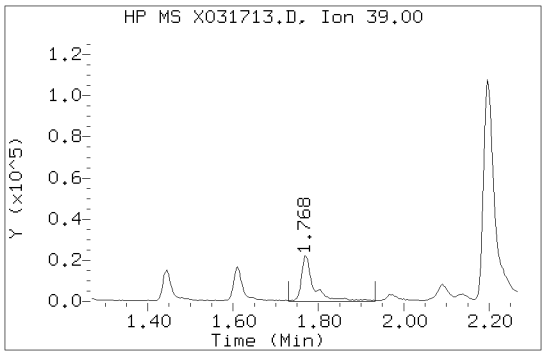

BEFORE

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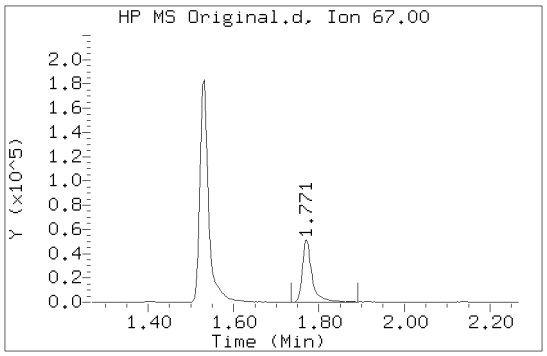

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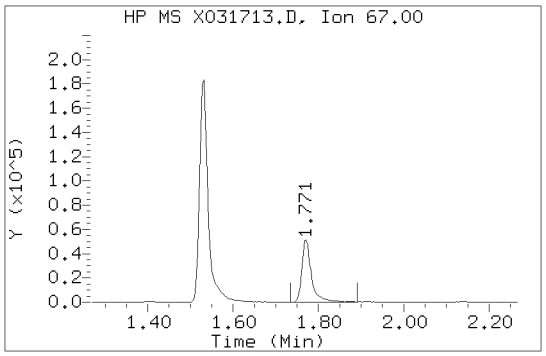

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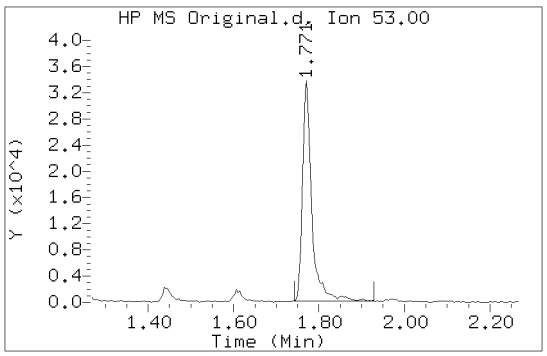

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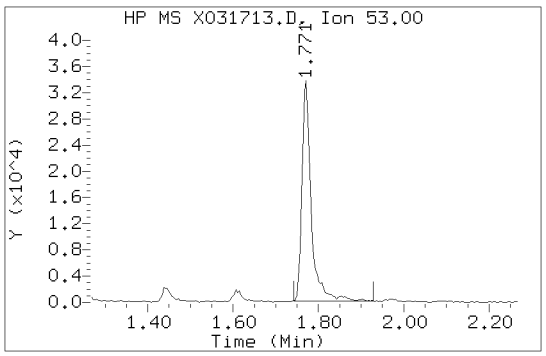

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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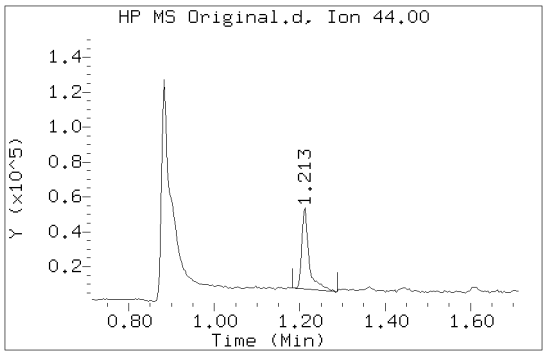

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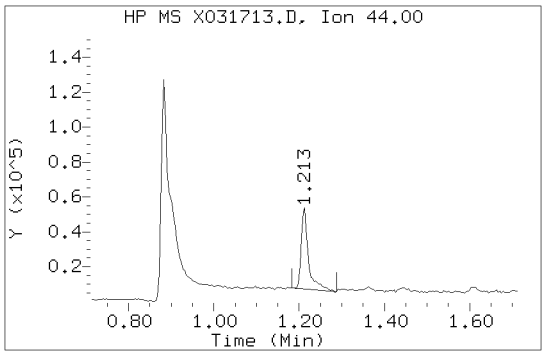

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InstruID : voa6.i
LabSampID : ICV

Acetaldehyde (75-07-0)

BEFORE

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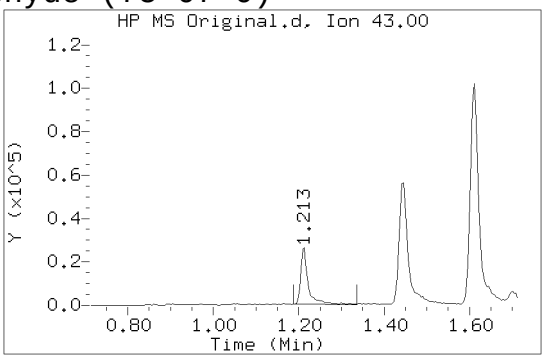
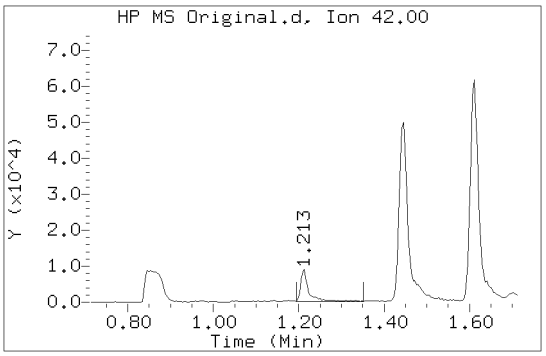
26025
21-Mar-2023
10:18
linh
pham



BEFORE

MASS
42
AREA
12038
HEIGHT
8969
21-Mar-2023
10:18
linh
pham



Reason Code:

AFTER

MASS
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AREA
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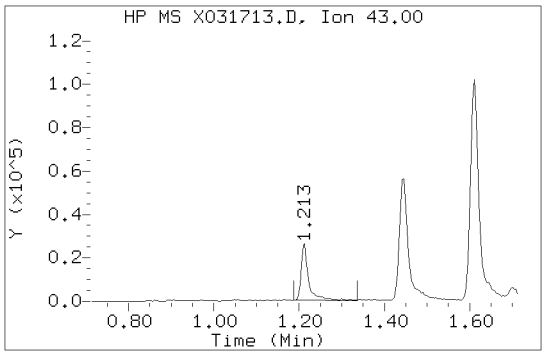
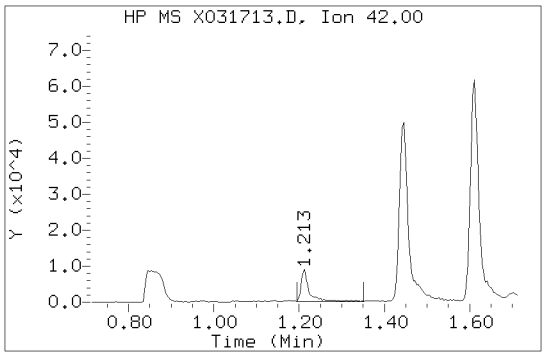
HEIGHT
26025
21-Mar-2023
10:21
linh
pham



AFTER

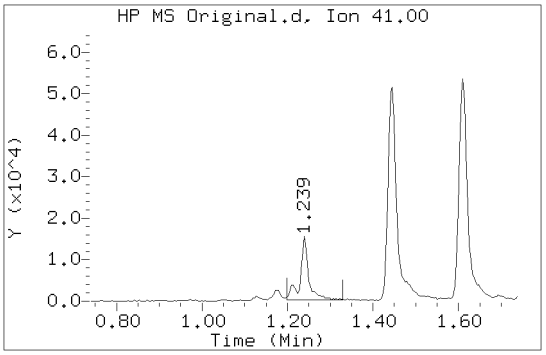
MASS
42
AREA
12038
HEIGHT
8969
21-Mar-2023
10:21
linh
pham



Isobutylene (115-11-7)

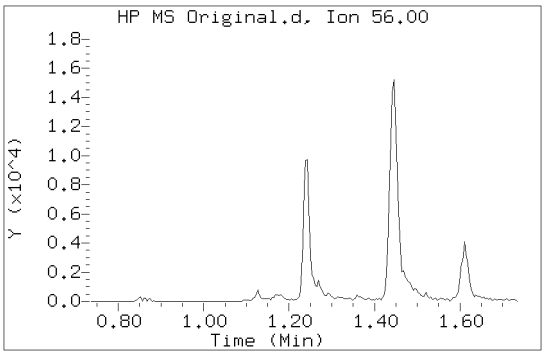
BEFORE

MASS
41
AREA
22110
HEIGHT
15254
21-Mar-2023
10:18
linh
pham



BEFORE

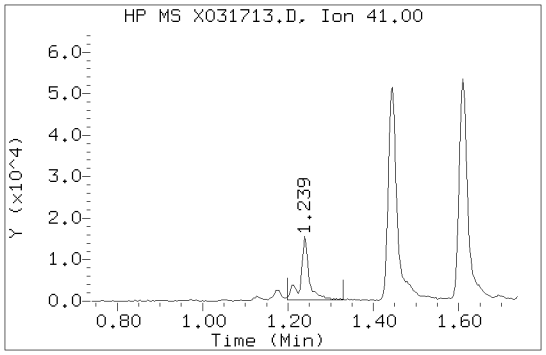
MASS
56
AREA
0
HEIGHT
0
21-Mar-2023
10:18
linh
pham



Reason Code:

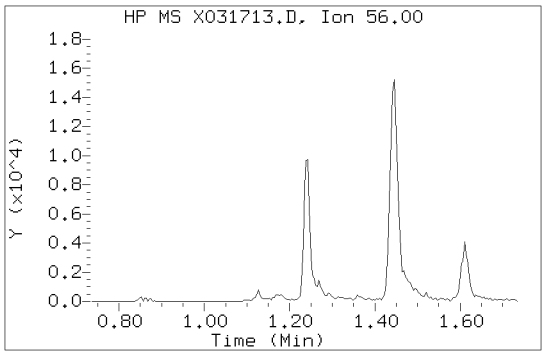
AFTER

MASS
41
AREA
22110
HEIGHT
15254
21-Mar-2023
10:21
linh
pham



AFTER

MASS
56
AREA
0
HEIGHT
0
21-Mar-2023
10:21
linh
pham



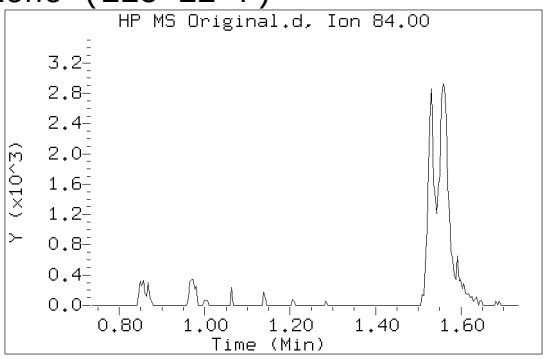
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031713.D
Inj Date : 17-MAR-2023 15:40
InstruID : voa6.i
LabSampID : ICV

Isobutylene (115-11-7)

Reason Code:

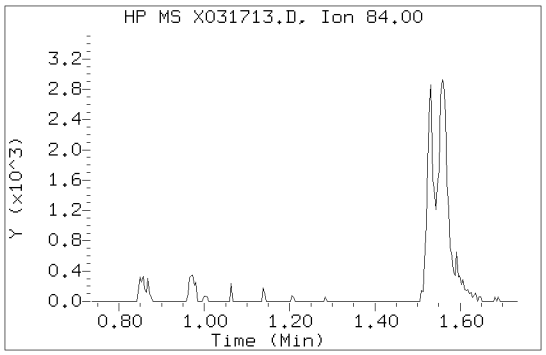
BEFORE

MASS
84
AREA
0
HEIGHT
0
21-Mar-2023
10:18
linh
pham



AFTER

MASS
84
AREA
0
HEIGHT
0
21-Mar-2023
10:21
linh
pham



01184059

right solutions.
right partner.

Raw Data VOA6 430439

Volatiles by EPA 8260

Workorder

HS23030818

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

03/22/2023

ALS Environmental–Houston Laboratory

10450 Stancliff Road, Suite 210, Houston, TX 77099

Phone (281) 530-5656 Fax (281) 530-5887

www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031901.D Page 1
Report Date: 19-Mar-2023 12:37

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031901.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 19-MAR-2023 12:18
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.687	8.889	(0.000)	95	95024			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	15059			15.00- 40.00	15.85
8.687	8.889	(0.000)	75	43608			30.00- 60.00	45.89
8.687	8.889	(0.000)	96	6405			5.00- 9.00	6.74
8.687	8.889	(0.000)	173	519			0.00- 2.00	0.66
8.687	8.889	(0.000)	174	78208			50.00- 0.00	82.30
8.687	8.889	(0.000)	175	5564			5.00- 9.00	7.11
8.687	8.889	(0.000)	176	75944			95.00- 101.00	97.11
8.687	8.889	(0.000)	177	5472			5.00- 9.00	7.21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.85
75	30.00 - 60.00% of mass 95	45.89
96	5.00 - 9.00% of mass 95	6.74
173	Less than 2.00% of mass 174	0.55 (0.66)
174	Greater than 50.00% of mass 95	82.30
175	5.00 - 9.00% of mass 174	5.86 (7.11)
176	95.00 - 101.00% of mass 174	79.92 (97.11)
177	5.00 - 9.00% of mass 176	5.76 (7.21)

Data File: X031901.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 105

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	906	63.90	228	94.00	10189	135.00	147
37.00	3810	64.90	129	95.00	95024	136.80	196
38.00	3685	65.90	55	96.00	6405	140.00	73
39.10	1745	67.00	291	96.90	130	140.90	585
39.90	1252	68.00	8275	98.00	1135	141.80	255
41.00	1068	69.00	9235	99.30	54	142.90	655
42.10	1430	70.00	1106	102.80	57	145.80	201
43.00	1086	71.10	279	103.90	305	147.90	282
44.00	1307	72.00	481	105.10	184	152.60	60
45.00	919	73.00	3335	105.70	347	153.90	67
47.00	1122	74.00	14372	106.80	400	154.90	282
47.90	531	75.00	43608	108.90	198	157.00	329
49.00	3484	76.10	3811	109.80	59	158.90	55
50.00	15059	77.10	414	110.70	112	160.70	100
51.00	5208	78.00	355	111.70	61	170.10	60
51.90	369	78.90	2536	113.00	126	172.90	519
53.00	177	80.00	803	115.00	148	173.90	78208
54.10	197	80.90	2256	115.90	342	174.90	5564
55.00	2022	81.90	460	116.80	569	175.90	75944
56.00	1675	83.10	354	117.70	191	176.90	5472
57.10	2884	84.90	365	118.80	493	177.80	142
58.10	444	86.00	176	124.00	54	178.20	117
59.00	72	86.90	4075	126.90	97	186.00	217
60.00	767	87.90	3533	127.90	513	233.80	85
61.00	4007	91.00	437	128.70	206		
62.00	3640	92.00	2673	129.90	421		
63.00	3062	92.90	3710	130.80	102		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031901.D Page 1

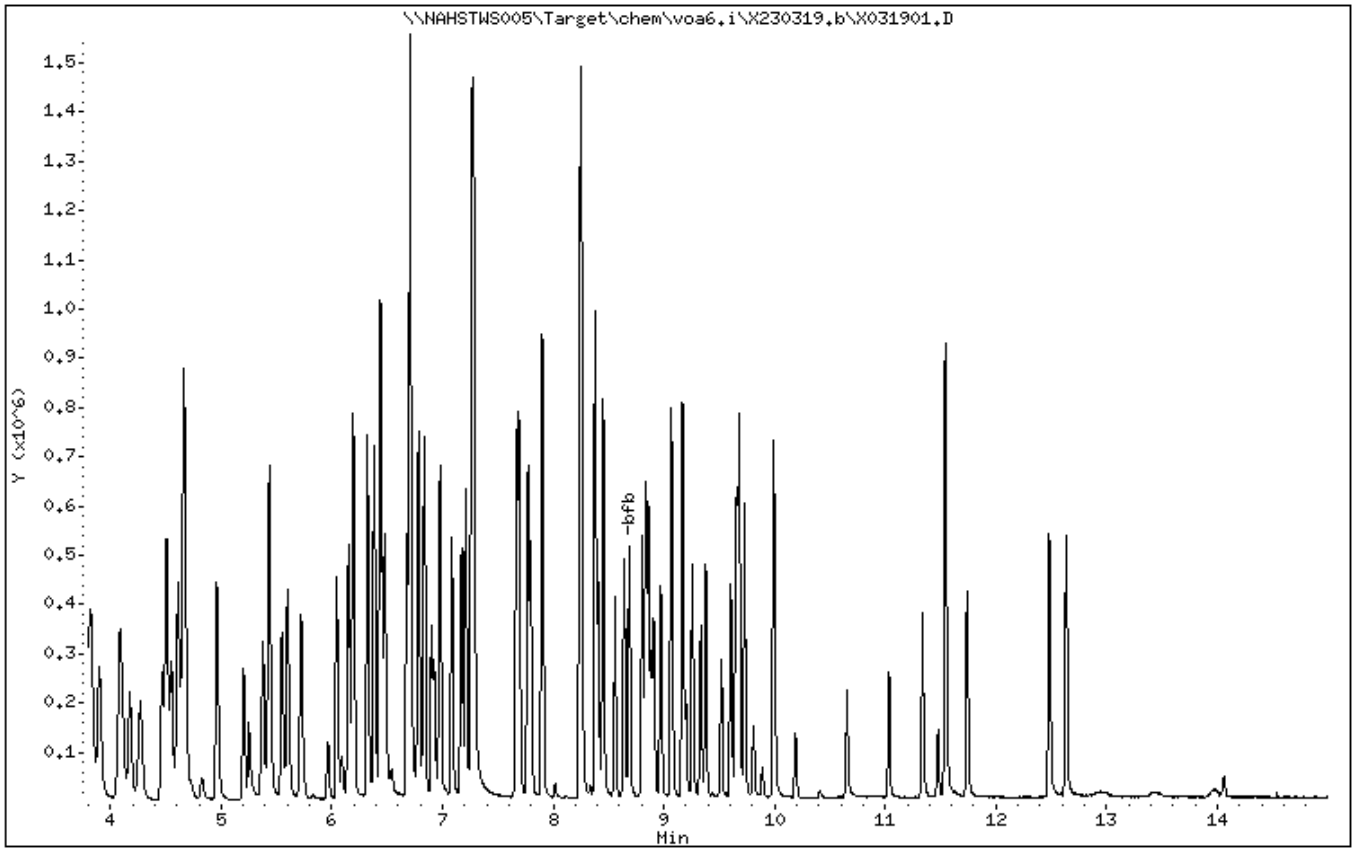
Date : 19-MAR-2023 12:18

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031901.D Page 2

Date : 19-MAR-2023 12:18

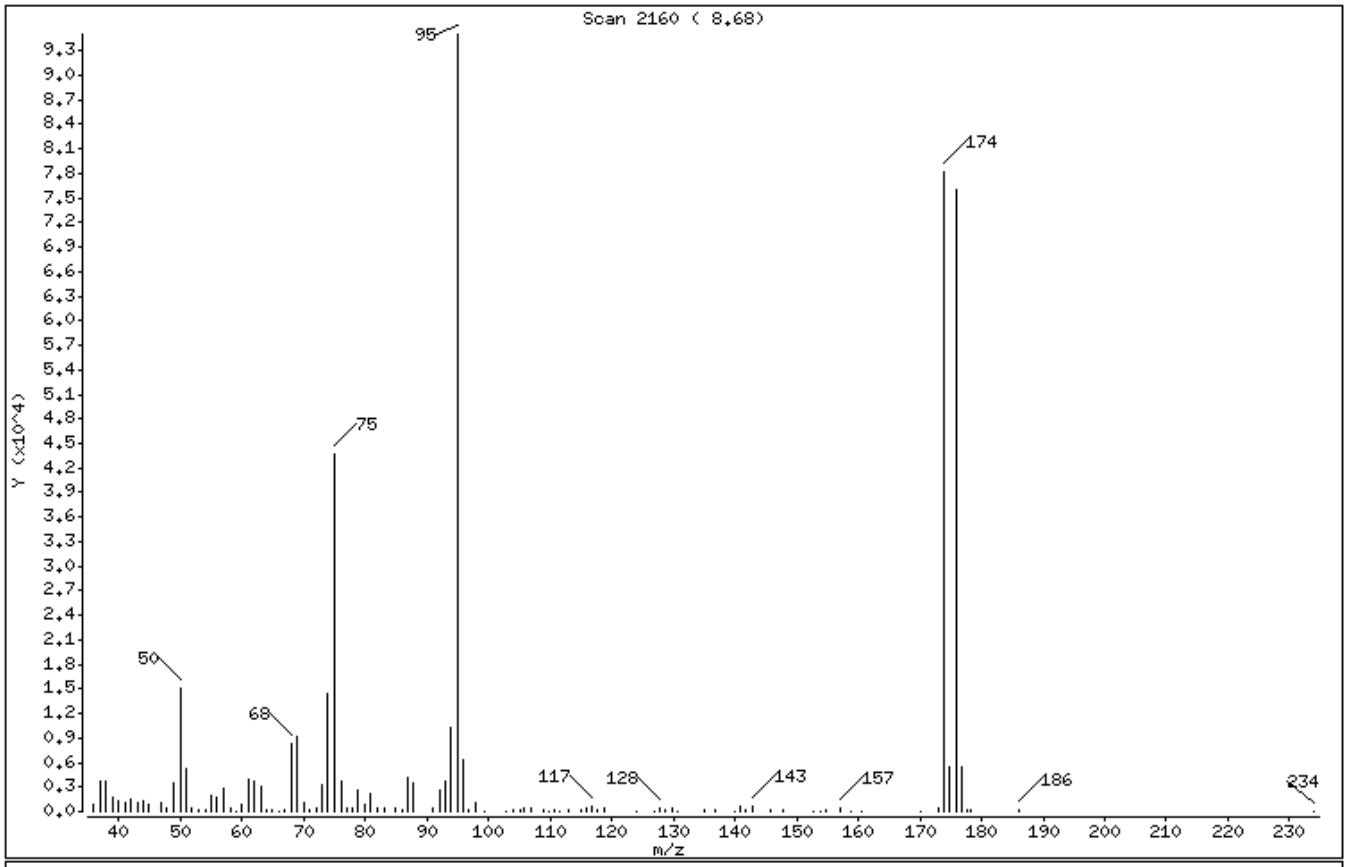
Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.85
75	30.00 - 60.00% of mass 95	45.89
96	5.00 - 9.00% of mass 95	6.74
173	Less than 2.00% of mass 174	0.55 (0.66)
174	Greater than 50.00% of mass 95	82.30
175	5.00 - 9.00% of mass 174	5.86 (7.11)
176	95.00 - 101.00% of mass 174	79.92 (97.11)
177	5.00 - 9.00% of mass 176	5.76 (7.21)

Date : 19-MAR-2023 12:18

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: X031901.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 105

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	906	63.90	228	94.00	10189	135.00	147
37.00	3810	64.90	129	95.00	95024	136.80	196
38.00	3685	65.90	55	96.00	6405	140.00	73
39.10	1745	67.00	291	96.90	130	140.90	585
39.90	1252	68.00	8275	98.00	1135	141.80	255
41.00	1068	69.00	9235	99.30	54	142.90	655
42.10	1430	70.00	1106	102.80	57	145.80	201
43.00	1086	71.10	279	103.90	305	147.90	282
44.00	1307	72.00	481	105.10	184	152.60	60
45.00	919	73.00	3335	105.70	347	153.90	67
47.00	1122	74.00	14372	106.80	400	154.90	282
47.90	531	75.00	43608	108.90	198	157.00	329
49.00	3484	76.10	3811	109.80	59	158.90	55
50.00	15059	77.10	414	110.70	112	160.70	100
51.00	5208	78.00	355	111.70	61	170.10	60
51.90	369	78.90	2536	113.00	126	172.90	519
53.00	177	80.00	803	115.00	148	173.90	78208
54.10	197	80.90	2256	115.90	342	174.90	5564
55.00	2022	81.90	460	116.80	569	175.90	75944
56.00	1675	83.10	354	117.70	191	176.90	5472
57.10	2884	84.90	365	118.80	493	177.80	142
58.10	444	86.00	176	124.00	54	178.20	117
59.00	72	86.90	4075	126.90	97	186.00	217
60.00	767	87.90	3533	127.90	513	233.80	85
61.00	4007	91.00	437	128.70	206		
62.00	3640	92.00	2673	129.90	421		
63.00	3062	92.90	3710	130.80	102		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031902.D Page 1
Report Date: 21-Mar-2023 10:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031902.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 19-MAR-2023 12:39
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\8260W.m
Meth Date : 21-Mar-2023 10:30 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	440175	50.0000	
135 1,4-Dioxane	88	5.594	5.594	(1.339)	53905	1000.00	922.91
140 1,3-Butadiene	54	1.164	1.164	(0.279)	142667	50.0000	47.79
25 Methacrylonitrile	41	3.814	3.814	(0.913)	196451	50.0000	48.42
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	620638	1000.00	1033.45
13 Acetonitrile	39	2.198	2.198	(0.526)	195017	500.000	476.03
14 Allyl Chloride	41	2.198	2.198	(0.526)	438997	50.0000	43.32
4 Propionitrile	54	3.645	3.645	(0.873)	278796	500.000	449.51
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	76612	50.0000	51.44
194 Acetaldehyde	44	1.212	1.212	(0.290)	56272	200.000	214.32(M)
23 Chloroprene	53	1.767	1.767	(0.423)	58191	50.0000	48.20(M)
130 Ethyl Acetate	43	3.653	3.653	(0.874)	228053	50.0000	50.16
40 Methyl Methacrylate	41	5.602	5.602	(1.341)	191824	50.0000	48.87
49 Ethyl Methacrylate	69	6.708	6.708	(1.352)	215404	50.0000	41.97
131 Methyl Acrylate	55	3.683	3.683	(0.882)	232925	50.0000	51.09
132 n-Butanol	56	5.250	5.250	(1.257)	102650	1000.00	904.81
136 n-Hexane	57	2.772	2.772	(0.664)	149445	50.0000	50.23
139 Diethyl ether	59	1.756	1.756	(0.420)	139940	50.0000	47.44
142 Tetrahydrofuran	42	3.840	3.840	(0.919)	68155	100.000	94.81
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	385295	50.0000	48.38

156 Diisopropyl ether	45	2.997	2.997 (0.717)	653466	50.0000	47.81
162 Butyl acrylate	55	8.249	8.249 (1.076)	487797	50.0000	49.41

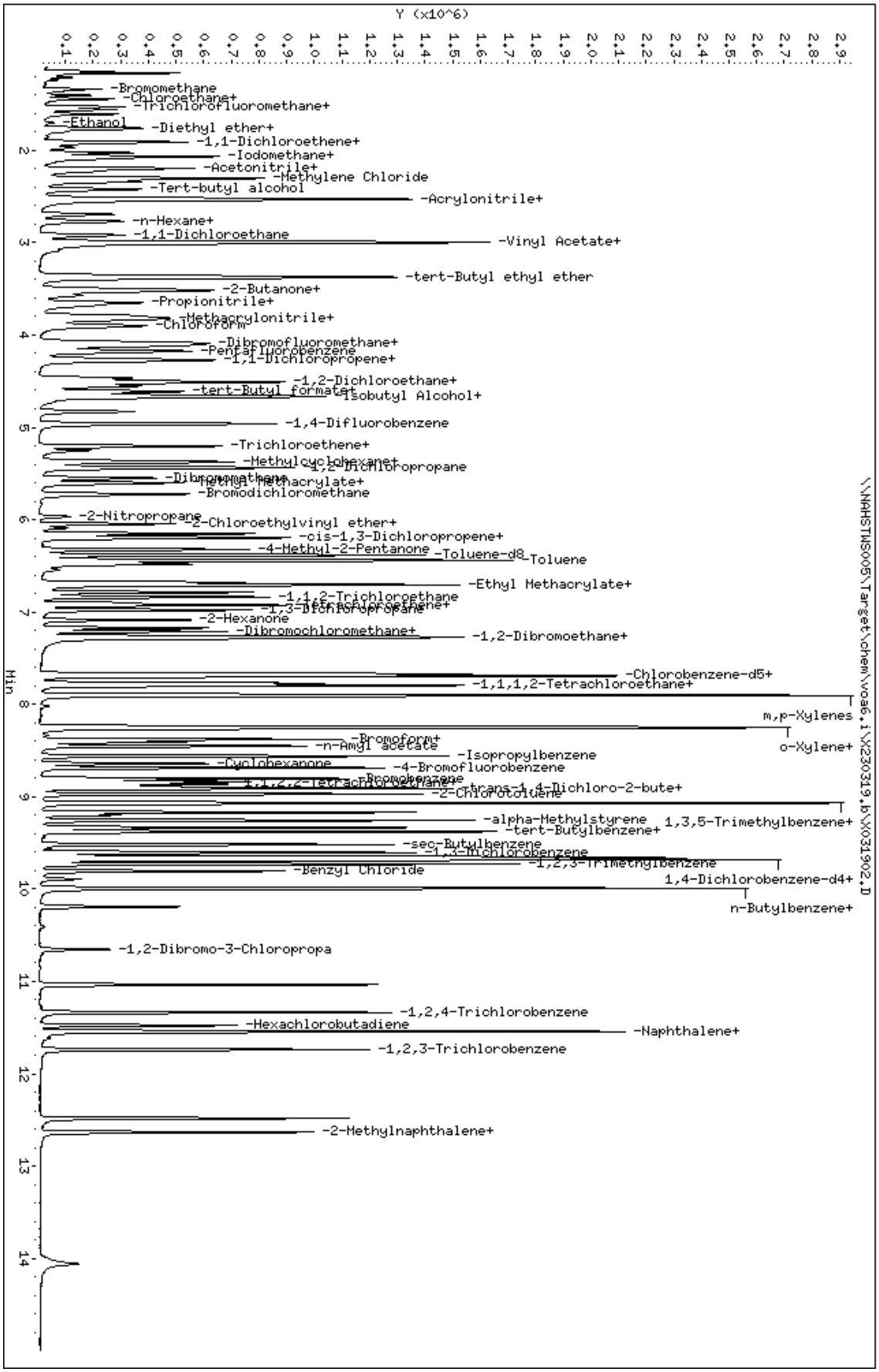
			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	167	Ethanol	45	1.700	1.700	(0.407)	37441	1000.00	948.42
	200	Dimethyl Disulfide	94	6.194	6.194	(0.808)	457401	50.0000	52.22
	182	Epichlorohydrin	57	6.093	6.093	(1.228)	75647	200.000	190.22
	166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	802906	50.0000	45.83
	2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	138518	50.0000	46.23
	3	Chloromethane	50	1.077	1.077	(0.258)	199317	50.0000	49.22
	5	Vinyl Chloride	62	1.141	1.141	(0.273)	172221	50.0000	49.67
	6	Bromomethane	94	1.340	1.340	(0.321)	100267	50.0000	50.29
	7	Chloroethane	64	1.404	1.404	(0.336)	110853	50.0000	45.08
	8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	185066	50.0000	45.00
	9	Acrolein	56	1.445	1.445	(0.346)	21446	100.000	86.17
	10	Acetone	43	1.970	1.970	(0.472)	93952	100.000	80.60(M)
	11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	109781	50.0000	41.53
	15	Iodomethane	142	2.026	2.026	(0.485)	345175	100.000	109.60
	16	Acrylonitrile	53	2.532	2.532	(0.606)	139302	100.000	94.83
	17	Methylene Chloride	84	2.299	2.299	(0.550)	216077	50.0000	50.21
	18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	636824	50.0000	45.75
	19	Carbon Disulfide	76	2.067	2.067	(0.495)	797074	100.000	82.07
	20	trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	178734	50.0000	47.94
	21	Vinyl Acetate	43	2.993	2.993	(0.716)	1206380	100.000	107.38
	22	1,1-Dichloroethane	63	2.918	2.918	(0.699)	333979	50.0000	49.46
	24	2-Butanone	43	3.574	3.574	(0.856)	150776	100.000	95.66
	26	2,2-Dichloropropane	77	3.507	3.507	(0.839)	288236	50.0000	54.21
	27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	220292	50.0000	48.82
	28	Chloroform	83	3.900	3.900	(0.934)	368254	50.0000	49.13
	29	Bromochloromethane	128	3.791	3.791	(0.908)	119085	50.0000	46.64
$	30	Dibromofluoromethane	113	4.095	4.095	(0.980)	221091	50.0000	53.96
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	282717	50.0000	50.44
	32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	238590	50.0000	47.97
	33	1,2-Dichloroethane	62	4.552	4.552	(0.918)	303664	50.0000	52.40
	34	Carbon Tetrachloride	117	4.260	4.260	(0.859)	225593	50.0000	47.38
$	35	1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	254183	50.0000	53.48
*	36	1,4-Difluorobenzene	114	4.961	4.961	(1.000)	697076	50.0000	
	37	Benzene	78	4.507	4.507	(0.909)	809765	50.0000	47.24
	38	Trichloroethene	130	5.201	5.201	(1.048)	220169	50.0000	47.68
	39	Bromodichloromethane	83	5.722	5.722	(1.153)	309487	50.0000	50.86
	41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	187850	100.000	101.54
	42	1,2-Dichloropropane	63	5.433	5.433	(1.095)	226240	50.0000	48.97
	44	Dibromomethane	93	5.550	5.550	(1.119)	147029	50.0000	49.90
	45	4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	417732	100.000	98.71
	46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	393740	50.0000	51.23
*	47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	668823	50.0000	
$	48	Toluene-d8	98	6.382	6.382	(0.832)	816680	50.0000	49.25
	50	Toluene	91	6.445	6.445	(0.841)	854330	50.0000	48.68
	51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	336225	50.0000	52.70
	52	2-Hexanone	43	7.083	7.083	(0.924)	284720	100.000	98.03
	53	1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	181934	50.0000	47.68
	54	1,3-Dichloropropane	76	6.978	6.978	(0.910)	372556	50.0000	49.13
	55	Dibromochloromethane	129	7.173	7.173	(0.935)	266539	50.0000	49.45
	56	Tetrachloroethene	164	6.925	6.925	(0.903)	160702	50.0000	45.68
	57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	234521	50.0000	49.73
	58	1-Chlorohexane	55	7.694	7.694	(1.551)	146604	50.0000	44.31

59 Chlorobenzene	112	7.690	7.690 (1.003)	605360	50.0000	48.27
60 1,1,1,2-Tetrachloroethane	131	7.772	7.772 (1.014)	234842	50.0000	48.59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	61 Ethylbenzene	106	7.799	7.799	(1.017)	282361	50.0000	45.75
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	716043	100.000	92.19
	63 o-Xylene	106	8.241	8.241	(1.075)	362492	50.0000	46.44
	64 Styrene	104	8.256	8.256	(1.077)	645289	50.0000	50.03
	66 Bromoform	173	8.406	8.406	(1.096)	187459	50.0000	50.30
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	794168	50.0000	44.43
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	300141	50.0000	47.15
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	332758	50.0000	52.56
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	365279	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	253981	50.0000	53.09
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	937494	50.0000	46.17
	74 Bromobenzene	156	8.803	8.803	(0.911)	288445	50.0000	49.11
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	709670	50.0000	45.06
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	647748	50.0000	47.45
	77 4-Chlorotoluene	91	9.069	9.069	(0.939)	754126	50.0000	49.01
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	547497	50.0000	43.65
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	751159	50.0000	46.51
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	729265	50.0000	42.90
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	682605	50.0000	45.00
	83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	482636	50.0000	47.51
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	507095	50.0000	46.45
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	581248	50.0000	47.54
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	491833	50.0000	48.41
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	53209	50.0000	45.52
	90 1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	351169	50.0000	47.28
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	126381	50.0000	44.13
	92 Naphthalene	128	11.540	11.540	(1.194)	871537	50.0000	48.89
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	333754	50.0000	46.95
M	94 1,2-Dichloroethylene (total)	96				399026	100.000	(a)
	141 Cyclohexane	56	4.121	4.121	(0.987)	206430	50.0000	44.26
	138 Freon TF	101	1.913	1.913	(0.458)	99436	50.0000	41.19(M)
	147 Methylcyclohexane	55	5.377	5.377	(1.084)	453932	50.0000	47.16
	146 Methyl Acetate	43	2.232	2.232	(0.534)	124185	50.0000	49.08
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	424405	1000.00	920.68
	149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	208812	1000.00	847.73

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Date : 19-MAR-2023 12:39
Client ID: CCV
Sample Info: CCV;CCV;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031902.D
Inj Date : 19-MAR-2023 12:39
InstruID : voa6.i
LabSampID : CCV

Acetone (67-64-1)

BEFORE

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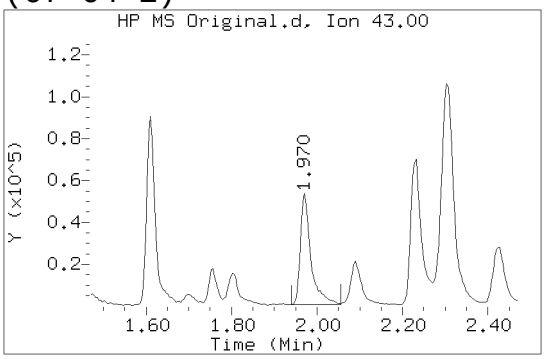
93952
HEIGHT
53188
21-Mar-2023
10:29
linh
pham



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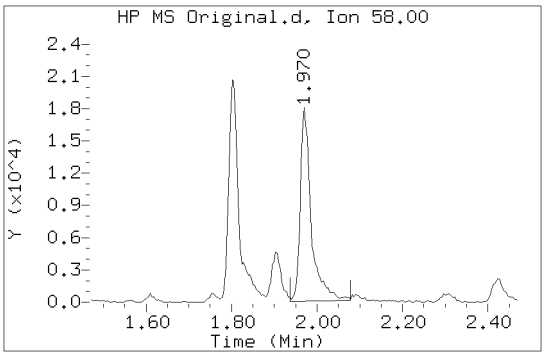

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AFTER

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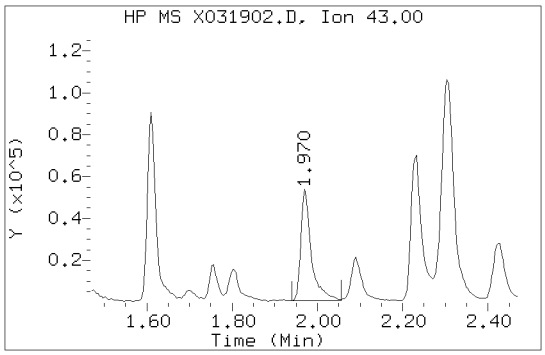

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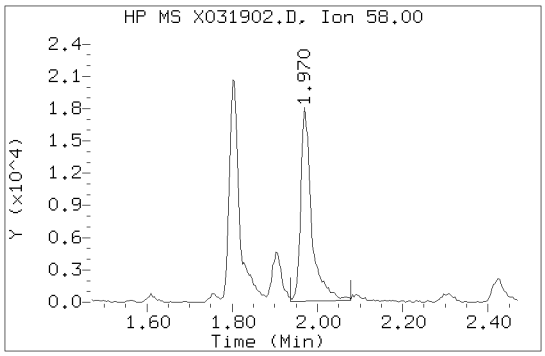

Chloroprene (126-99-8)

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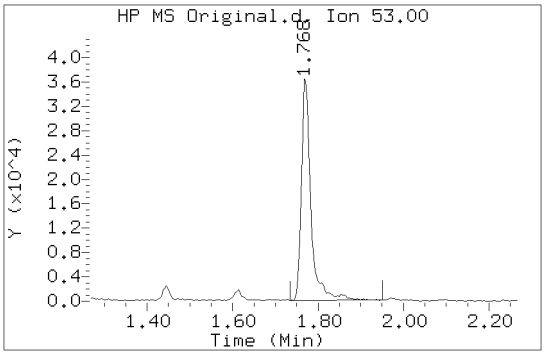

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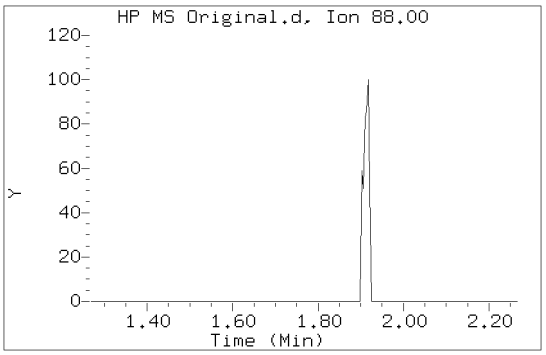

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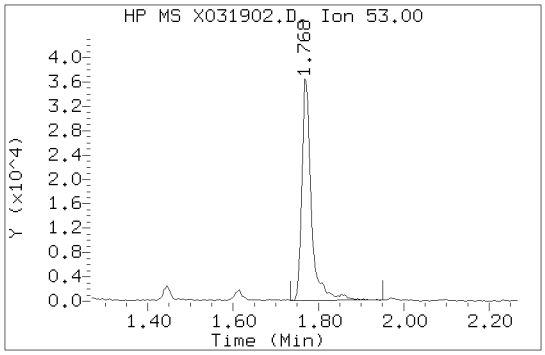

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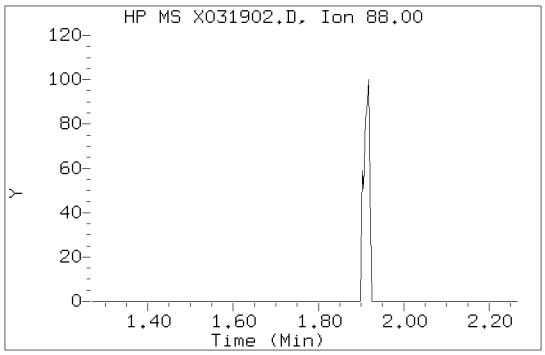

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Inj Date : 19-MAR-2023 12:39
InstruID : voa6.i
LabSampID : CCV

Freon TF (76-13-1)

Reason Code:

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21-Mar-2023
10:29
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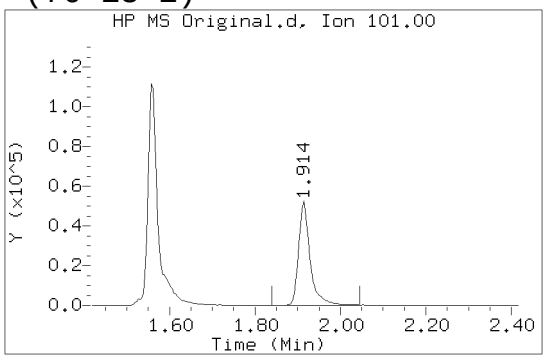

AFTER

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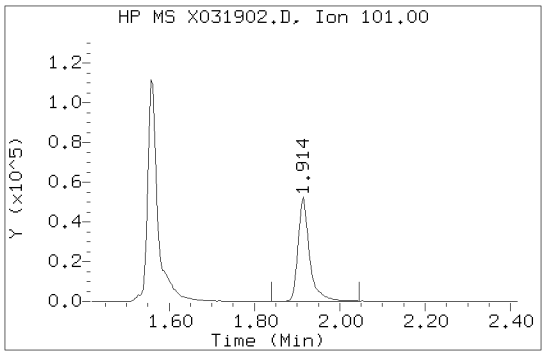

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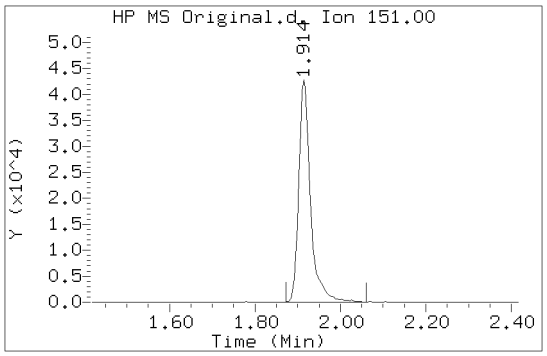

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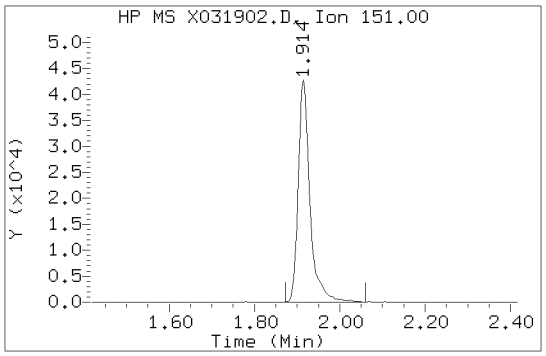

Acetaldehyde (75-07-0)

Reason Code:

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21-Mar-2023
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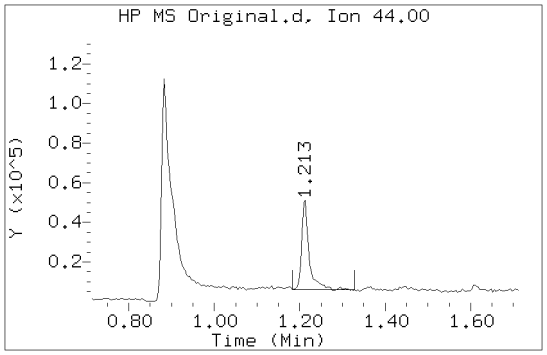

AFTER

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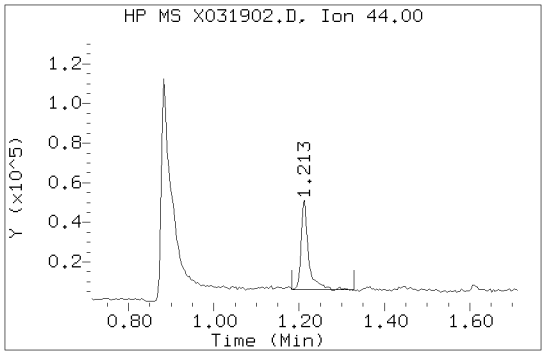

BEFORE

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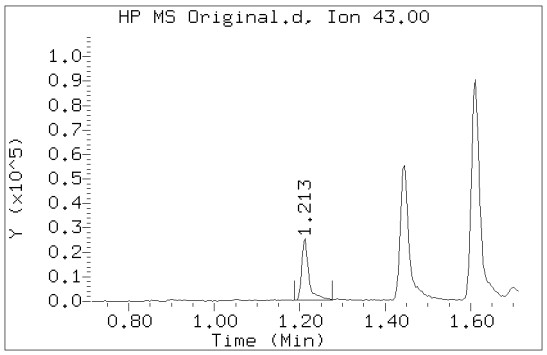

AFTER

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21-Mar-2023
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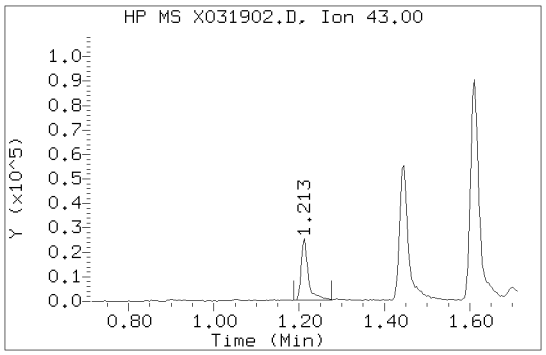

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Inj Date : 19-MAR-2023 12:39
InstruID : voa6.i
LabSampID : CCV

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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21-Mar-2023
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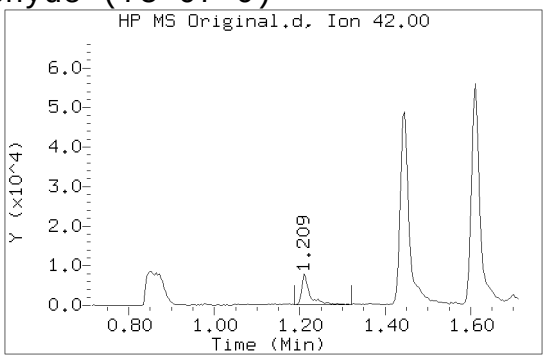

AFTER

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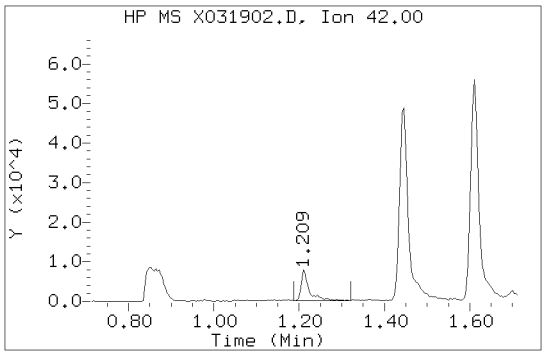


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031904.D Page 1
Report Date: 22-Mar-2023 10:11

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031904.D
Lab Smp Id: CCB
Inj Date : 19-MAR-2023 13:21
Operator : PC   Inst ID: voa6.i
Smp Info : CCB;CCB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\8260W.m
Meth Date : 22-Mar-2023 10:09 nieka.cars Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55   Cal File: X031708.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7017

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.178	(1.000)	486140	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	203871	44.9283	44.92
$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	214549	41.1244	41.12
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	690825	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	620772	50.0000	
$ 48 Toluene-d8	98	6.385	6.382	(0.833)	827161	53.7502	53.75
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	306396	52.1420	52.14
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	362961	50.0000	

01184076

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031904.D

Page 1

Date : 19-MAR-2023 13:21

Client ID:

Instrument: voa6.i

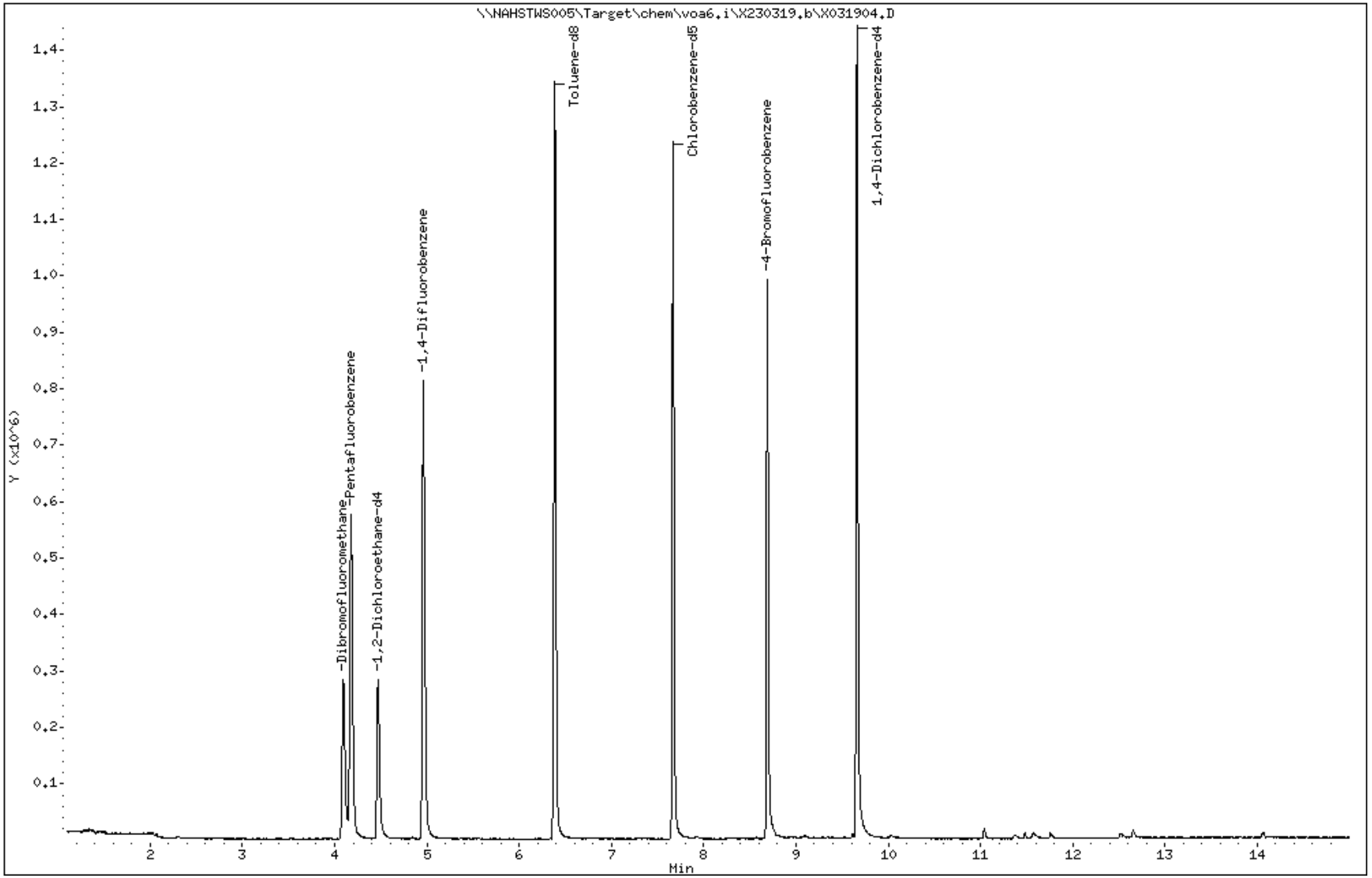
Sample Info: CCB;CCB

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 19-MAR-2023 13:21
InstruID : voa6.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031905.D
Lab Smp Id: VLCSW-230319 Client Smp ID: VLCSW-230319
Inj Date : 19-MAR-2023 13:42
Operator : PC Inst ID: voa6.i
Smp Info : VLCSW-230319;VLCSW-230319;3;;LCS
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\8260W.m
Meth Date : 21-Mar-2023 10:30 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	444159	50.0000	
135 1,4-Dioxane	88	5.598	5.594	(1.340)	22284	378.106	378.10(a)
140 1,3-Butadiene	54	1.164	1.164	(0.279)	60663	20.1394	20.13
25 Methacrylonitrile	41	3.825	3.814	(0.916)	81293	19.8587	19.85
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	261175	430.994	430.99(H)
13 Acetonitrile	39	2.198	2.198	(0.526)	79681	192.756	192.75
14 Allyl Chloride	41	2.198	2.198	(0.526)	180538	17.6570	17.65
4 Propionitrile	54	3.653	3.645	(0.874)	115277	184.198	184.19(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	31721	21.6586	21.65
194 Acetaldehyde	44	1.209	1.212	(0.289)	24165	90.7423	90.74(M)
23 Chloroprene	53	1.767	1.767	(0.423)	21513	17.6620	17.66(M)
130 Ethyl Acetate	43	3.653	3.653	(0.874)	104490	22.7775	22.77
40 Methyl Methacrylate	41	5.606	5.602	(1.342)	79712	20.1270	20.12
49 Ethyl Methacrylate	69	6.438	6.708	(1.298)	4162	0.80445	0.80(a)
131 Methyl Acrylate	55	3.686	3.683	(0.882)	87857	19.1000	19.09
132 n-Butanol	56	5.261	5.250	(1.259)	38327	354.782	354.78(a)
136 n-Hexane	57	2.768	2.772	(0.663)	56455	20.9494	20.94
139 Diethyl ether	59	1.756	1.756	(0.420)	49420	16.6058	16.60
142 Tetrahydrofuran	42	3.840	3.840	(0.919)	30160	41.5832	41.58
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	149710	18.6860	18.68

156	Diisopropyl ether	45	2.997	2.997 (0.717)	253061	18.3521	18.35
162	Butyl acrylate	55	8.252	8.249 (1.076)	188579	19.1471	19.14

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031905.D Page 2
Report Date: 21-Mar-2023 10:31

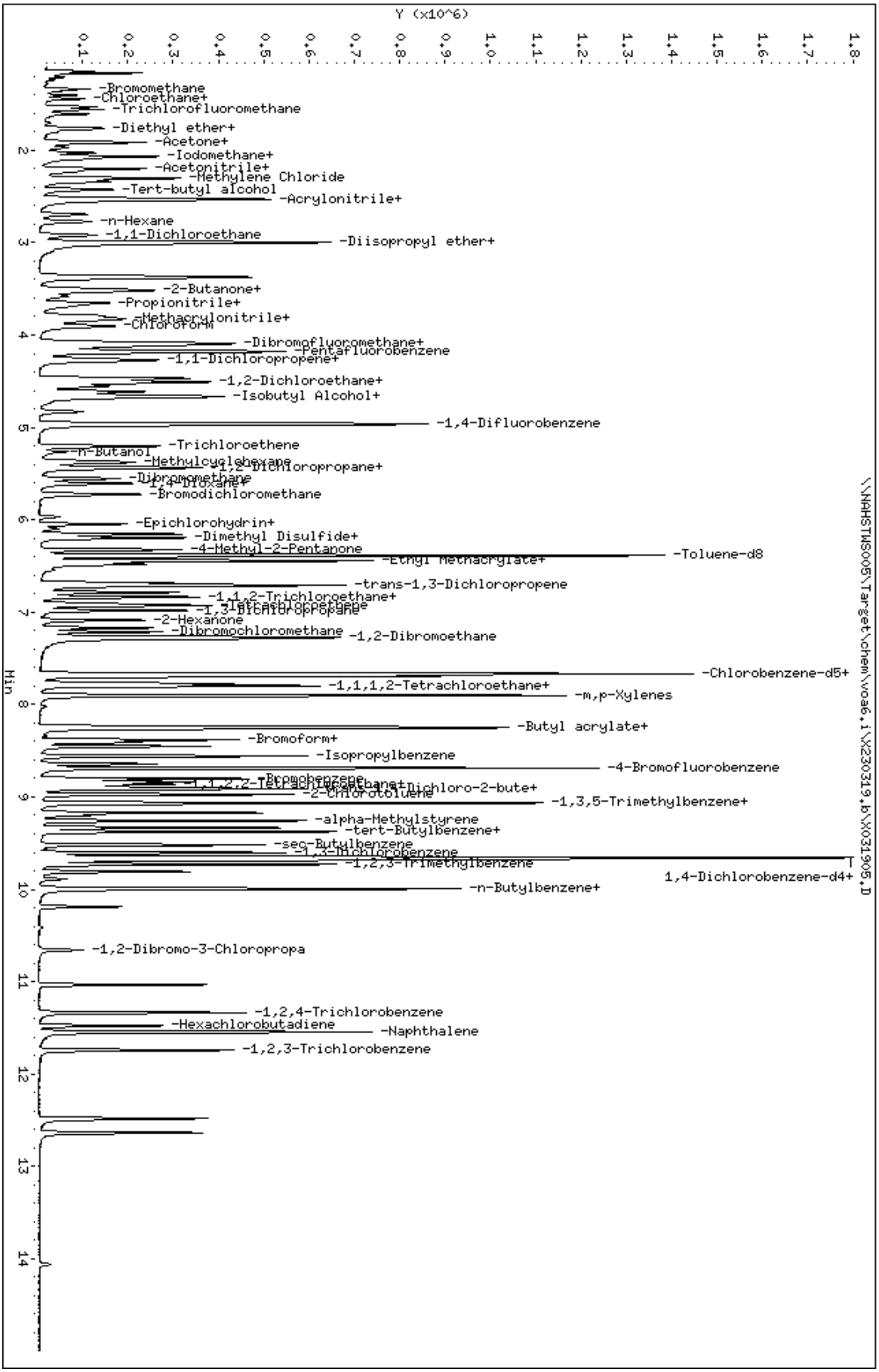
		QUANT SIG					CONCENTRATIONS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	167 Ethanol	45	1.700	1.700	(0.407)	14348	360.190	360.18
	200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	167660	19.1882	19.18
	182 Epichlorohydrin	57	6.097	6.093	(1.229)	30991	77.2959	77.29
	166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	302671	17.1746	17.17
	2 Dichlorodifluoromethane	85	0.972	0.972	(0.233)	58748	20.1636	20.16
	3 Chloromethane	50	1.077	1.077	(0.258)	86982	21.2899	21.28
	5 Vinyl Chloride	62	1.141	1.141	(0.273)	73339	20.9637	20.96
	6 Bromomethane	94	1.340	1.340	(0.321)	48785	24.2538	24.25
	7 Chloroethane	64	1.404	1.404	(0.336)	46461	18.7267	18.72
	8 Trichlorofluoromethane	101	1.561	1.557	(0.374)	85008	20.4861	20.48
	9 Acrolein	56	1.445	1.445	(0.346)	7380	31.4430	31.44
	10 Acetone	43	1.970	1.970	(0.472)	45548	36.0248	36.02
	11 1,1-Dichloroethene	96	1.910	1.913	(0.457)	49155	18.4292	18.42
	15 Iodomethane	142	2.026	2.026	(0.485)	124099	46.2771	46.27
	16 Acrylonitrile	53	2.536	2.532	(0.607)	52223	35.2335	35.23
	17 Methylene Chloride	84	2.303	2.299	(0.551)	92584	20.3276	20.32
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	253941	18.0817	18.08
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	340034	34.6979	34.69
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	76152	20.2428	20.24
	21 Vinyl Acetate	43	2.997	2.993	(0.717)	496557	43.8046	43.80
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	138522	20.3313	20.33
	24 2-Butanone	43	3.578	3.574	(0.856)	60816	38.2416	38.24
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	122103	22.6122	22.61
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	93320	20.4986	20.49
	28 Chloroform	83	3.904	3.900	(0.935)	156317	20.6716	20.67
	29 Bromochloromethane	128	3.791	3.791	(0.908)	50539	19.6171	19.61
$	30 Dibromofluoromethane	113	4.099	4.095	(0.981)	222528	53.8257	53.82
	31 1,1,1-Trichloroethane	97	4.076	4.080	(0.976)	119447	21.1231	21.12
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	97888	19.5206	19.52
	33 1,2-Dichloroethane	62	4.556	4.552	(0.918)	125359	21.4563	21.45
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	94680	19.7234	19.72(H)
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	271700	56.5966	56.59
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	702809	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	342811	19.8369	19.83
	38 Trichloroethene	130	5.205	5.201	(1.049)	91699	19.6999	19.69
	39 Bromodichloromethane	83	5.726	5.722	(1.154)	130726	21.3102	21.31
	41 2-Chloroethylvinyl ether	63	6.048	6.044	(1.219)	77723	41.6729	41.67
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	92432	19.8473	19.84(M)
	44 Dibromomethane	93	5.550	5.550	(1.119)	62334	20.9833	20.98
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	184786	43.7688	43.76
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	159931	20.6410	20.64
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	667260	50.0000	
$	48 Toluene-d8	98	6.386	6.382	(0.833)	817551	49.4244	49.42
	50 Toluene	91	6.445	6.445	(0.841)	360832	20.6112	20.61
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.347)	136585	21.2338	21.23
	52 2-Hexanone	43	7.087	7.083	(0.924)	127331	43.9435	43.94
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	75474	19.8295	19.82(M)
	54 1,3-Dichloropropane	76	6.982	6.978	(0.911)	157461	20.8160	20.81
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	109987	20.4559	20.45
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	67002	19.0920	19.09
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	99638	21.1789	21.17
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	62243	19.9586	19.95

59 Chlorobenzene	112	7.694	7.690 (1.003)	252423	20.1765	20.17
60 1,1,1,2-Tetrachloroethane	131	7.773	7.772 (1.014)	97696	20.2643	20.26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	61 Ethylbenzene	106	7.799	7.799	(1.017)	117178	19.0316	19.03
	62 m,p-Xylenes	106	7.904	7.900	(1.031)	292391	37.7348	37.73
	63 o-Xylene	106	8.241	8.241	(1.075)	149854	19.2465	19.24(H)
	64 Styrene	104	8.256	8.256	(1.077)	263234	20.4606	20.46
	66 Bromoform	173	8.406	8.406	(1.096)	77708	20.9015	20.90(H)
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	319600	17.9222	17.92
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	131801	20.5835	20.58
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	332523	52.6475	52.64
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	367486	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	98007	20.3659	20.36(MH)
	73 n-Propylbenzene	91	8.912	8.908	(0.922)	368471	18.0407	18.04
	74 Bromobenzene	156	8.803	8.803	(0.911)	118888	20.1226	20.12
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	280962	17.7354	17.73
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	267460	19.4768	19.47
	77 4-Chlorotoluene	91	9.070	9.069	(0.939)	306824	19.8236	19.82
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	214933	17.0342	17.03
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	296406	18.2438	18.24
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	281275	16.4471	16.44
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	262593	17.2077	17.20
	83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	191638	18.7540	18.75
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	205933	18.7509	18.75
	87 n-Butylbenzene	91	9.995	9.992	(1.035)	222501	18.0907	18.09
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	201375	19.7029	19.70
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	22612	20.0860	20.08
	90 1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	133253	17.8331	17.83
	91 Hexachlorobutadiene	225	11.480	11.476	(1.188)	45899	17.5465	17.54
	92 Naphthalene	128	11.544	11.540	(1.195)	348363	19.4246	19.42
	93 1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	126656	17.7135	17.71
M	94 1,2-Dichloroethylene (total)	96				169472	40.7413	40.74
M	95 Xylenes (total)	106				442245	56.9813	56.98
	141 Cyclohexane	56	4.118	4.121	(0.986)	89416	20.3682	20.36
	138 Freon TF	101	1.910	1.913	(0.457)	41951	18.2552	18.25(M)
	147 Methylcyclohexane	55	5.381	5.377	(1.085)	166992	17.2087	17.20
	146 Methyl Acetate	43	2.228	2.232	(0.533)	50201	19.6640	19.66
	148 Tert-Butyl alcohol	59	2.427	2.423	(0.581)	191895	412.557	412.55
	149 Isopropyl Alcohol	45	2.093	2.090	(0.501)	89187	358.834	358.83

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Sample Info: VLCSW-230319;VLCSW-230319;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: PC
Column diameter: 0.18

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Inj Date : 19-MAR-2023 13:42
InstruID : voa6.i
LabSampID : VLCSW-230319

1,2-Dichloropropane (78-87-5)

Reason Code:

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21-Mar-2023
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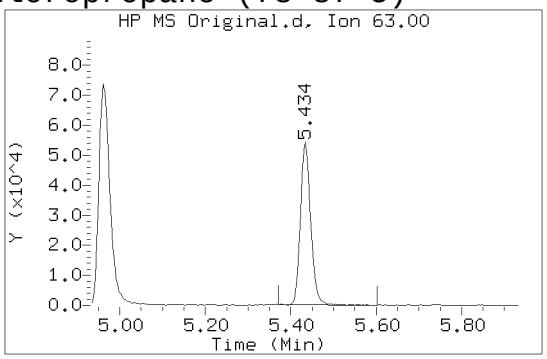

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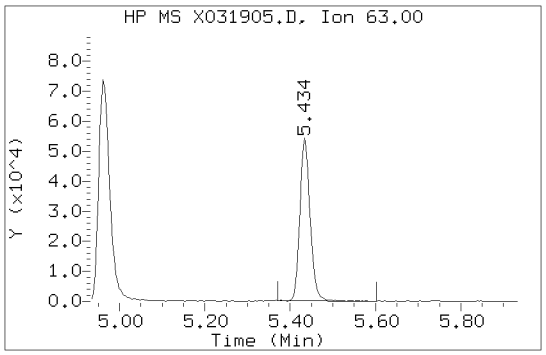

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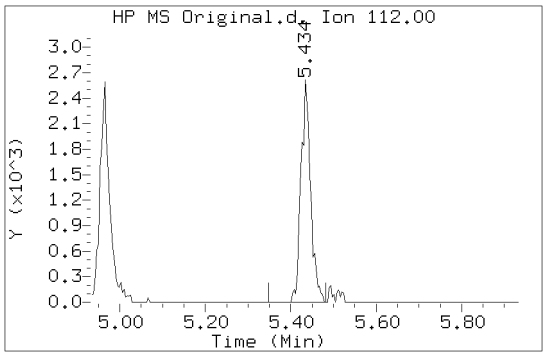

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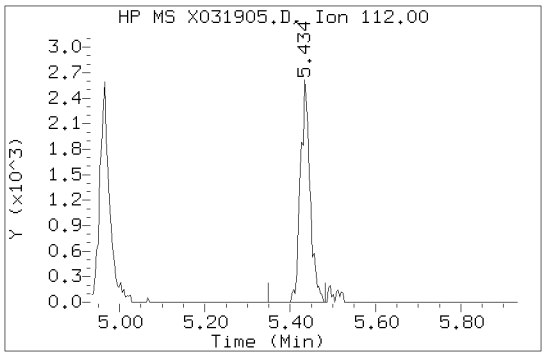

1,1,2-Trichloroethane (79-00-5)

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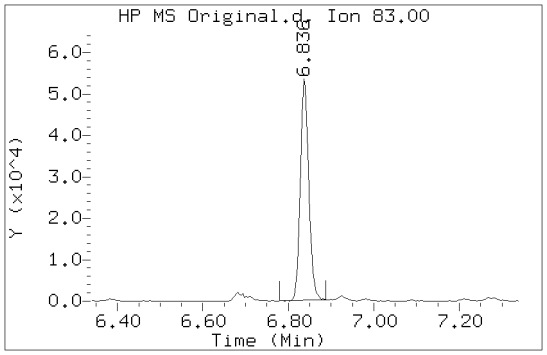

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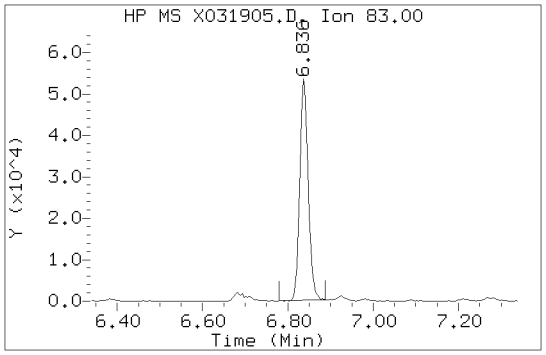

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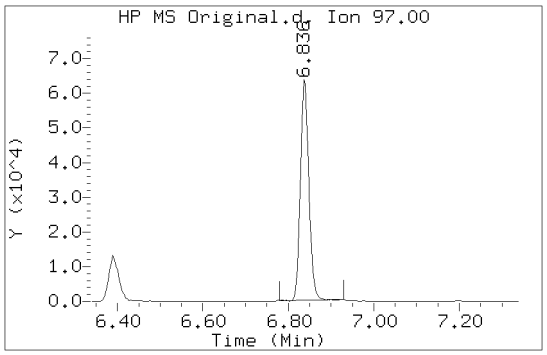

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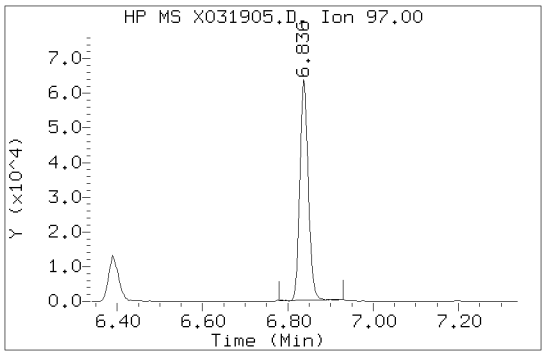

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InstruID : voa6.i
LabSampID : VLCSW-230319

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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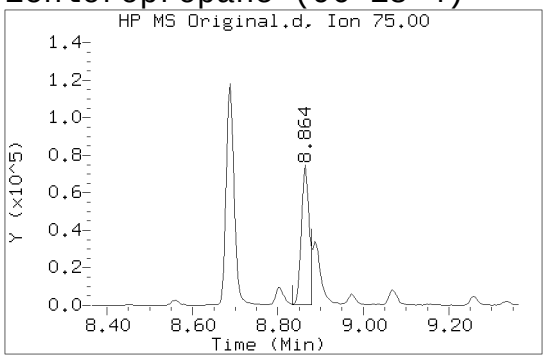

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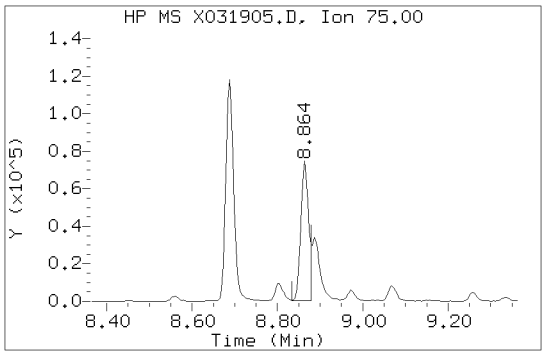

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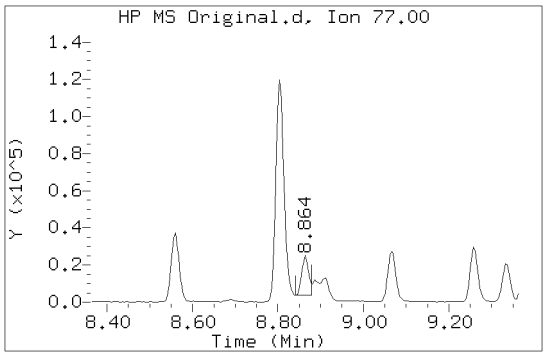

AFTER

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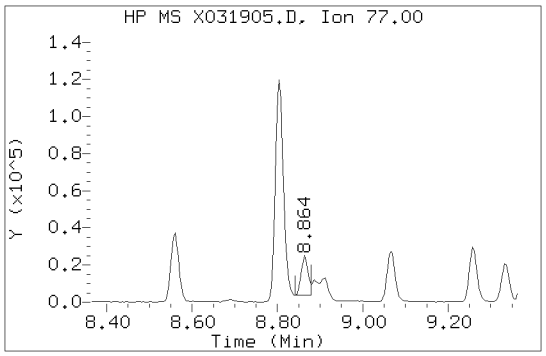

Chloroprene (126-99-8)

Reason Code:

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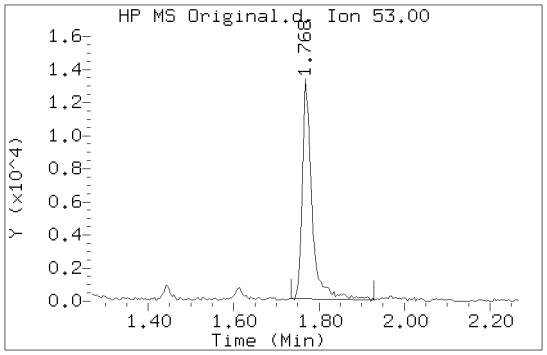

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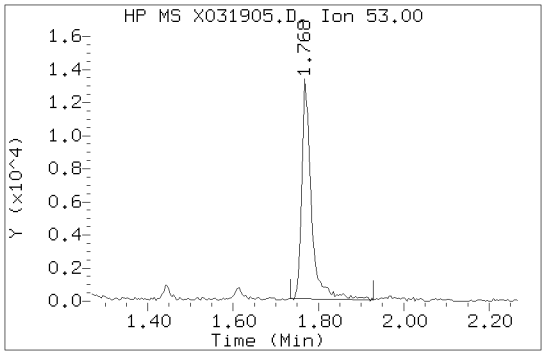

BEFORE

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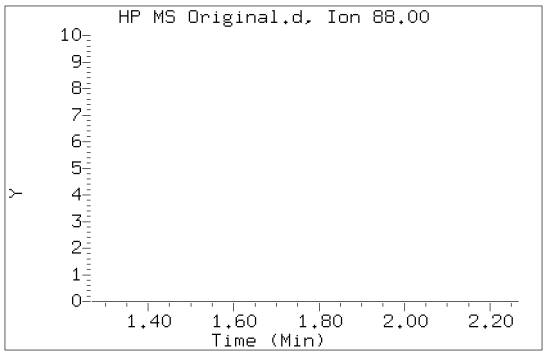

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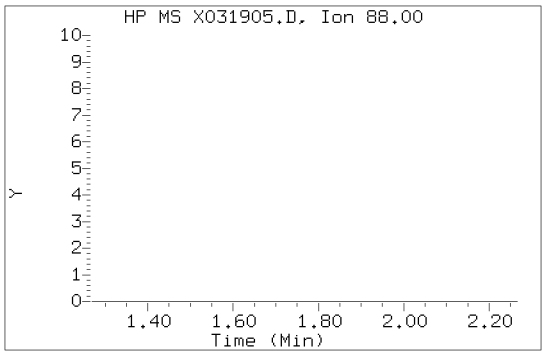

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InstruID : voa6.i
LabSampID : VLCSW-230319

Freon TF (76-13-1)

Reason Code:

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21-Mar-2023
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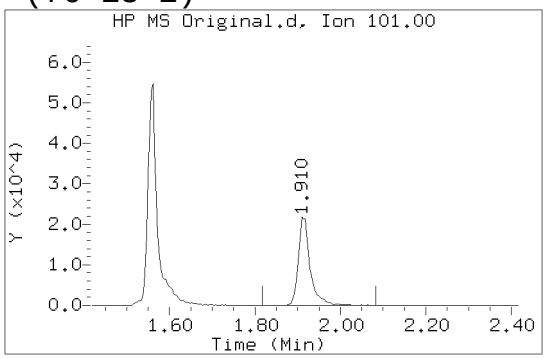

AFTER

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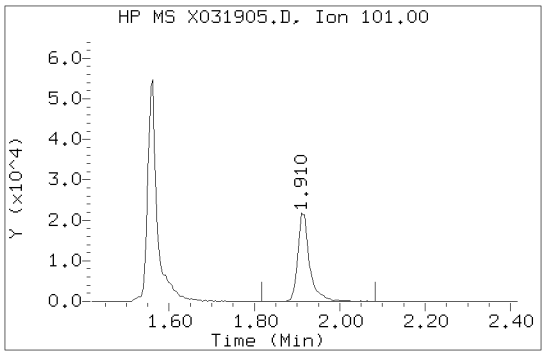

BEFORE

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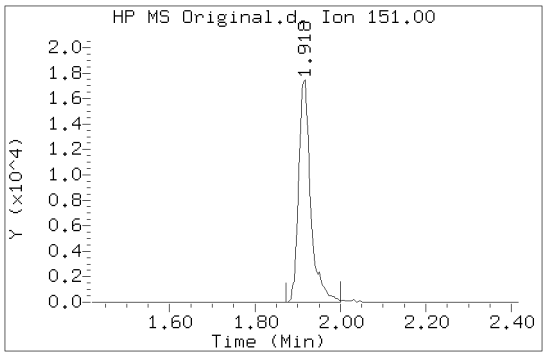

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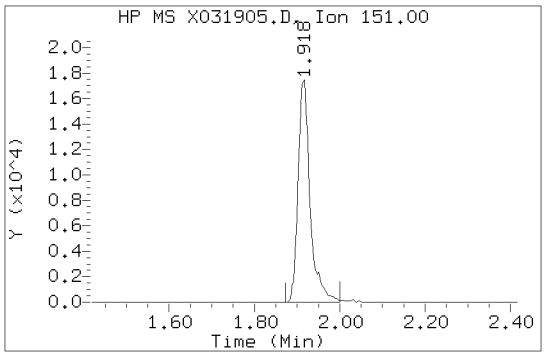

Acetaldehyde (75-07-0)

Reason Code:

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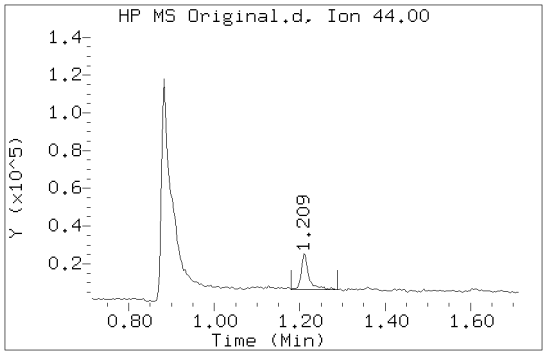
linh
pham



AFTER

MASS
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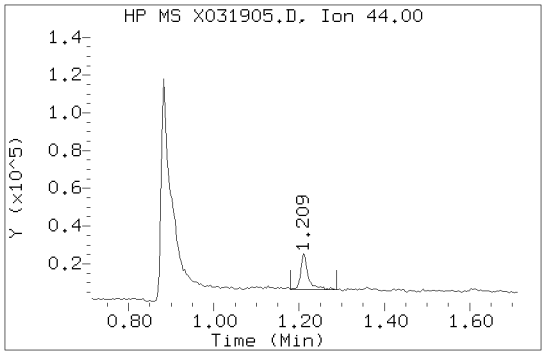
AREA
24165
HEIGHT
18982
21-Mar-2023
10:29
linh
pham



BEFORE

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HEIGHT
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21-Mar-2023
10:29
linh
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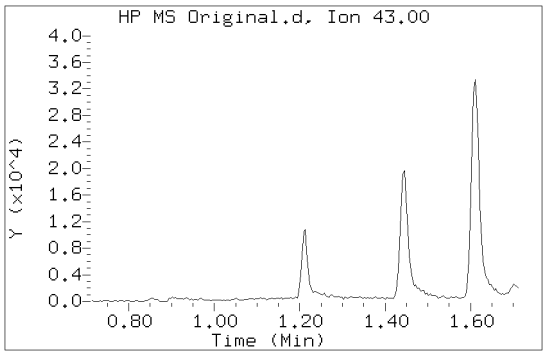

AFTER

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AREA
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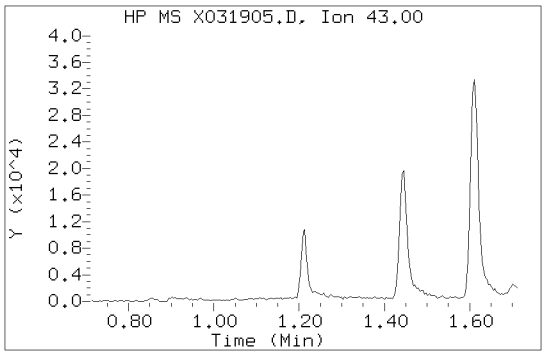
HEIGHT
0
21-Mar-2023
10:29
linh
pham



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Inj Date : 19-MAR-2023 13:42
InstruID : voa6.i
LabSampID : VLCSW-230319

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
42
AREA
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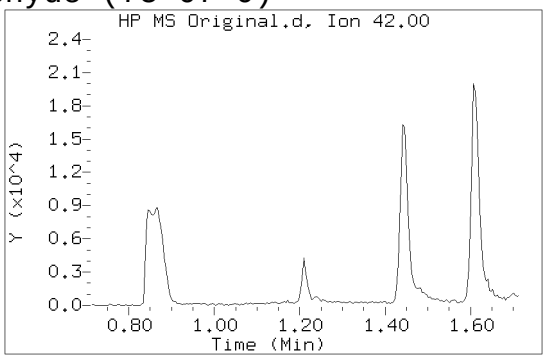
HEIGHT
0
21-Mar-2023
10:29
linh
pham



AFTER

MASS
42
AREA
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HEIGHT
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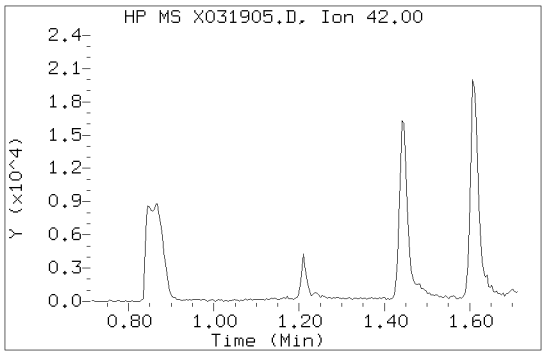
21-Mar-2023
10:29
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031907.D Page 1
Report Date: 21-Mar-2023 10:31

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031907.D
Lab Smp Id: VBLKW-230319 Client Smp ID: VBLKW-230319
Inj Date : 19-MAR-2023 14:24
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-230319;VBLKW-230319;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\8260W.m
Meth Date : 21-Mar-2023 10:30 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.178	(1.000)	574984	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	248629	46.3498	46.34
$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	284121	45.9195	45.91
* 36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	823958	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	727797	50.0000	
$ 48 Toluene-d8	98	6.385	6.382	(0.833)	943717	52.3062	52.30
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	351375	50.9993	50.99
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	388625	50.0000	

01184089

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031907.D

Date : 19-MAR-2023 14:24

Client ID: VBLKW-230319

Instrument: voa6.i

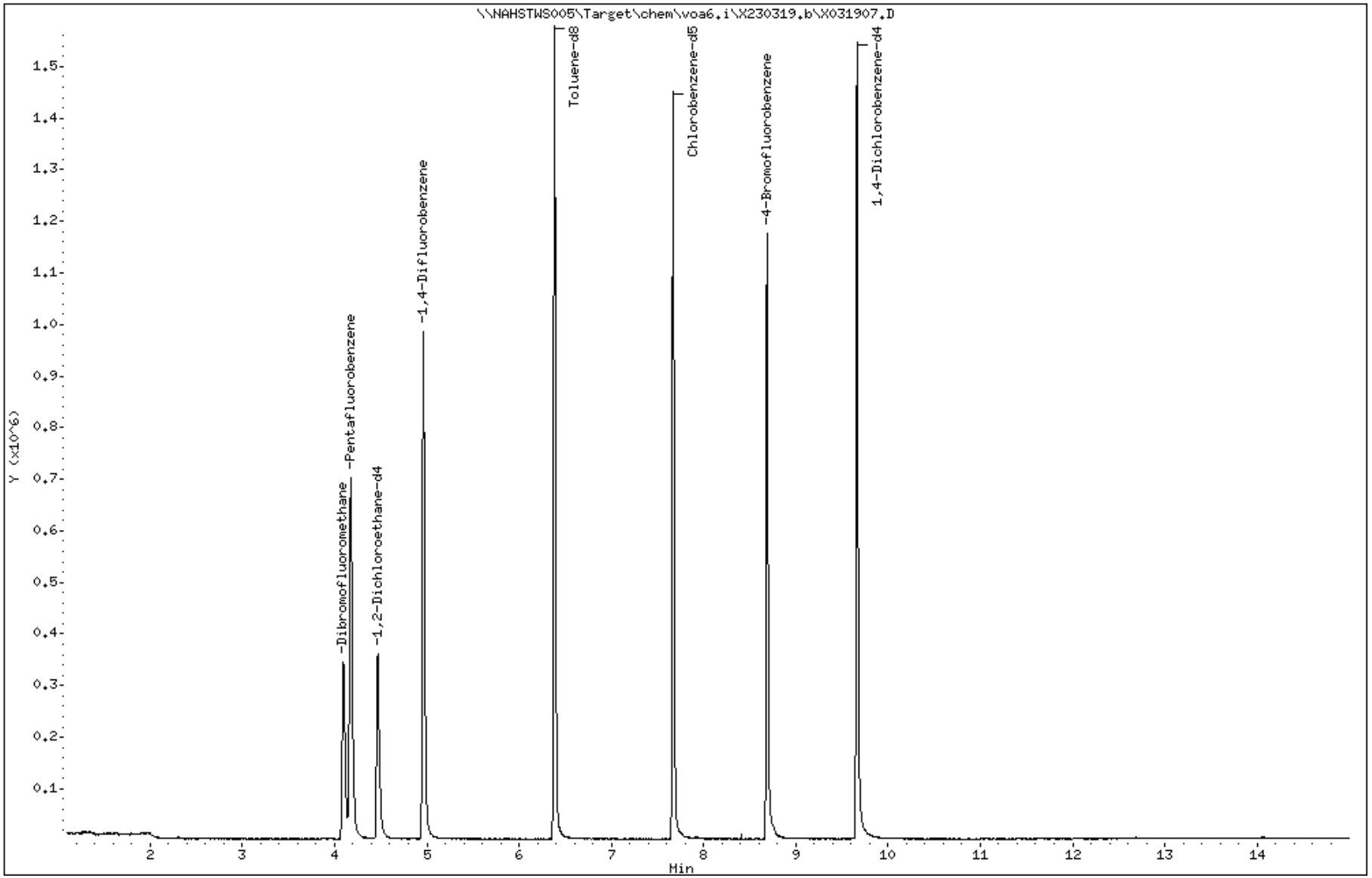
Sample Info: VBLKW-230319;VBLKW-230319;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 19-MAR-2023 14:24
InstruID : voa6.i
LabSampID : VBLKW-230319

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031908.D Page 1
Report Date: 22-Mar-2023 10:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031908.D
Lab Smp Id: HS23030818-02 Client Smp ID: HS23030818-02
Inj Date : 19-MAR-2023 14:45
Operator : PC Inst ID: voa6.i
Smp Info : HS23030818-02;HS23030818-02;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\8260W.m
Meth Date : 22-Mar-2023 10:16 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7017

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.178	(1.000)	499806	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	213431	45.7632	45.76
$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	234495	43.6525	43.65
* 36 1,4-Difluorobenzene	114	4.961	4.965	(1.000)	721241	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	708462	50.0000	
$ 48 Toluene-d8	98	6.385	6.382	(0.833)	840463	47.8546	47.85
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	336990	50.2437	50.24
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	368503	50.0000	

01184092

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031908.D

Page 1

Date : 19-MAR-2023 14:45

Client ID: HS23030818-02

Instrument: voa6.i

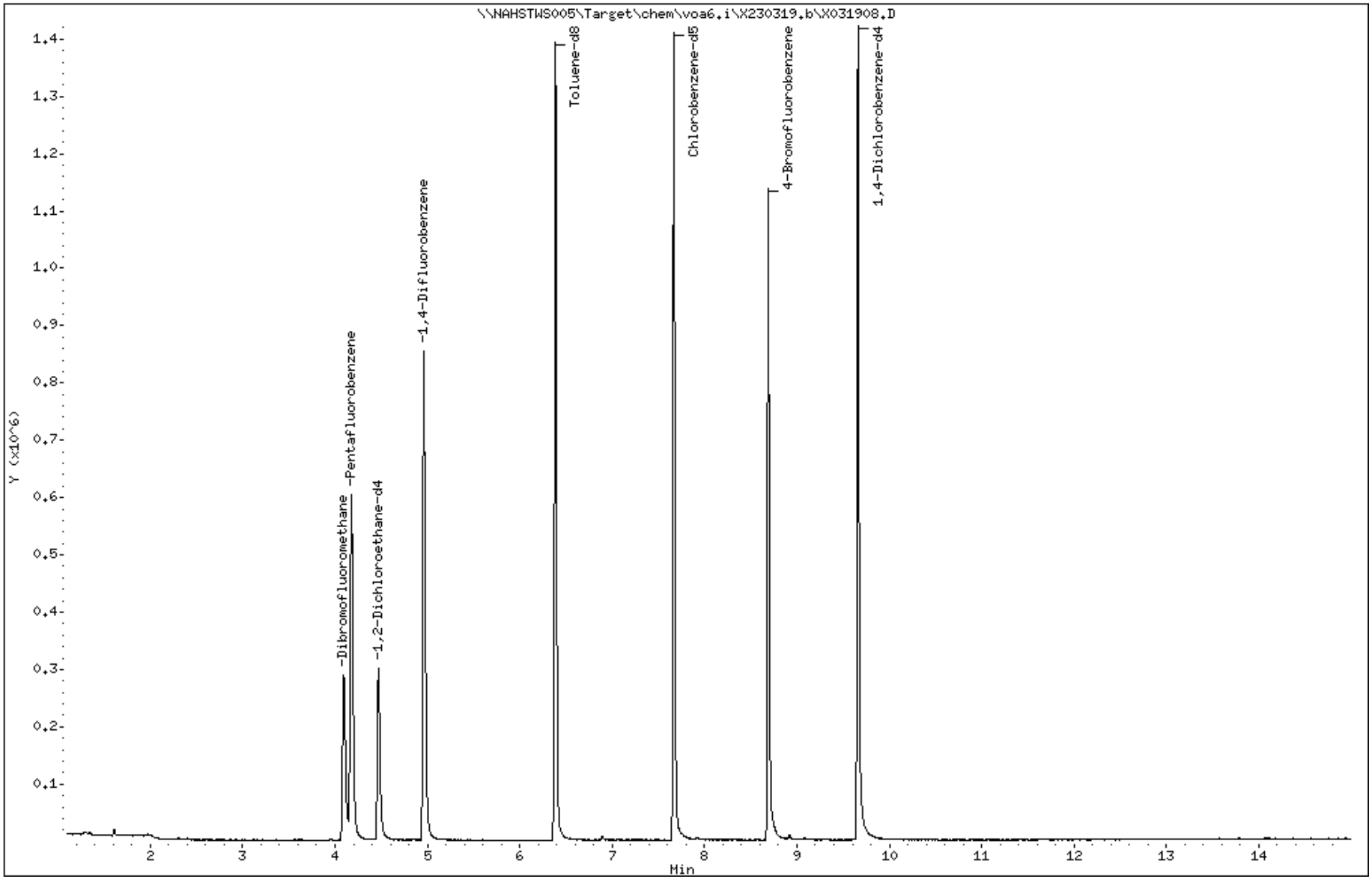
Sample Info: HS23030818-02;HS23030818-02;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031908.D
Inj Date : 19-MAR-2023 14:45
InstruID : voa6.i
LabSampID : HS23030818-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031911.D Page 1
Report Date: 22-Mar-2023 10:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031911.D
Lab Smp Id: HS23030818-01 Client Smp ID: HS23030818-01
Inj Date : 19-MAR-2023 15:48
Operator : PC Inst ID: voa6.i
Smp Info : HS23030818-01;HS23030818-01;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\8260W.m
Meth Date : 22-Mar-2023 10:16 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7017

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.178	(1.000)	508136	50.0000	
27 cis-1,2-Dichloroethene	96	3.525	3.522	(0.844)	7105	1.36418	1.36(a)
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	214823	45.2988	45.29
$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	245809	44.9760	44.97
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	832170	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	728919	50.0000	
$ 48 Toluene-d8	98	6.385	6.382	(0.833)	959804	53.1160	53.11
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	346836	50.2605	50.26
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	372020	50.0000	
M 94 1,2-Dichloroethylene (total)	96				7105	1.36418	1.36(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01184095

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031911.D

Date : 19-MAR-2023 15:48

Client ID: HS23030818-01

Instrument: voa6.i

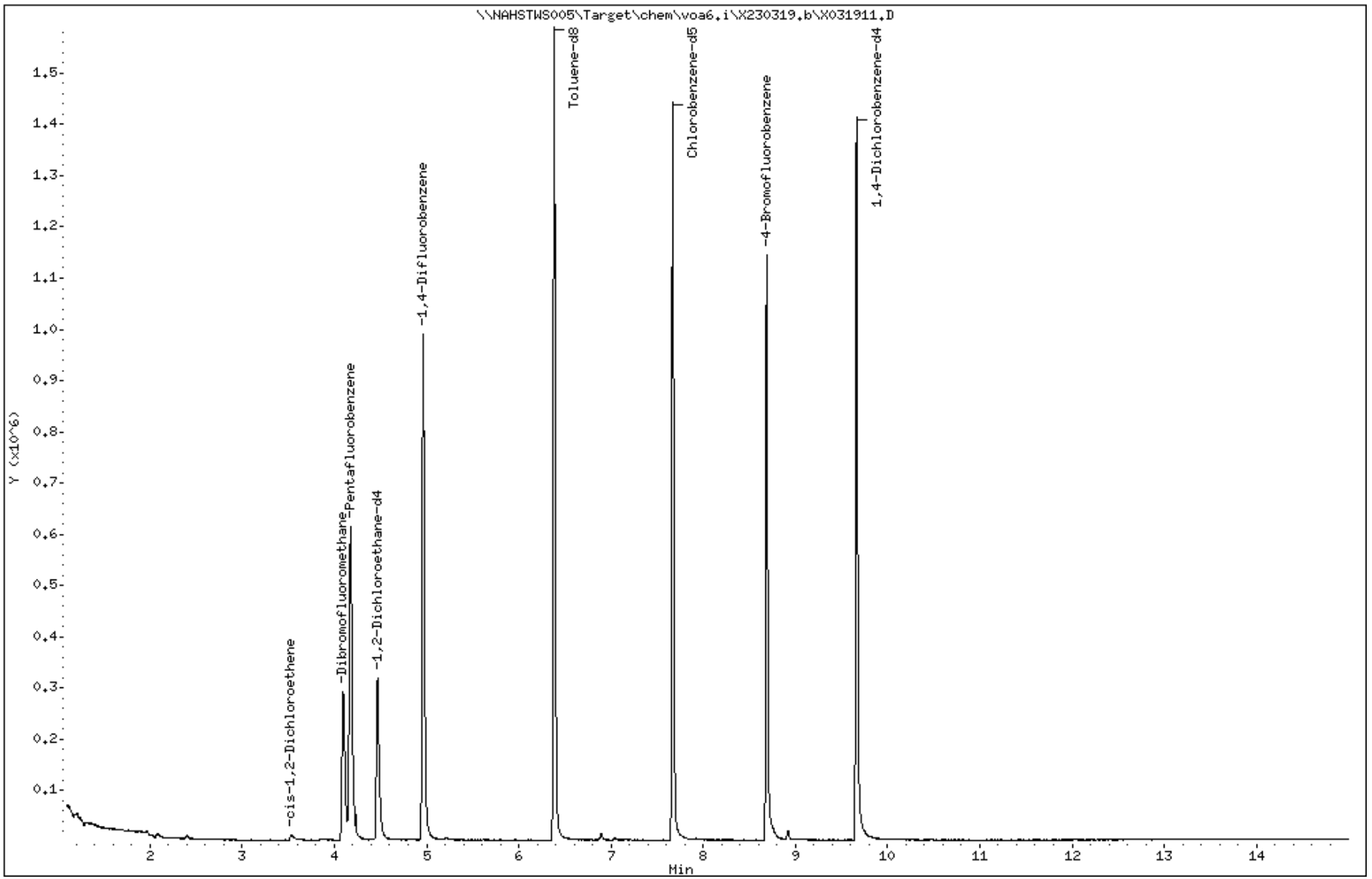
Sample Info: HS23030818-01;HS23030818-01;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031911.D

Date : 19-MAR-2023 15:48

Client ID: HS23030818-01

Instrument: voa6.i

Sample Info: HS23030818-01;HS23030818-01;;;

Purge Volume: 5.0

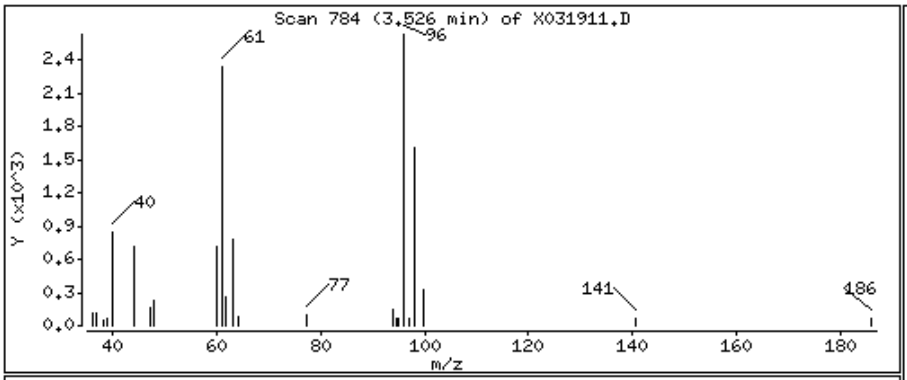
Operator: PC

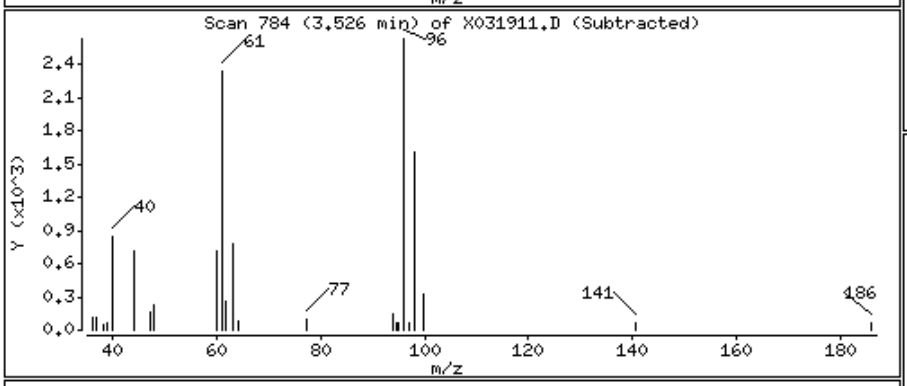
Column phase: DB624

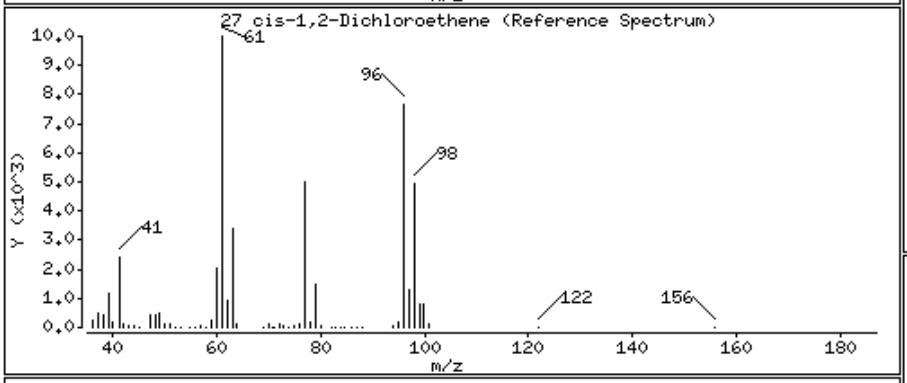
Column diameter: 0.18

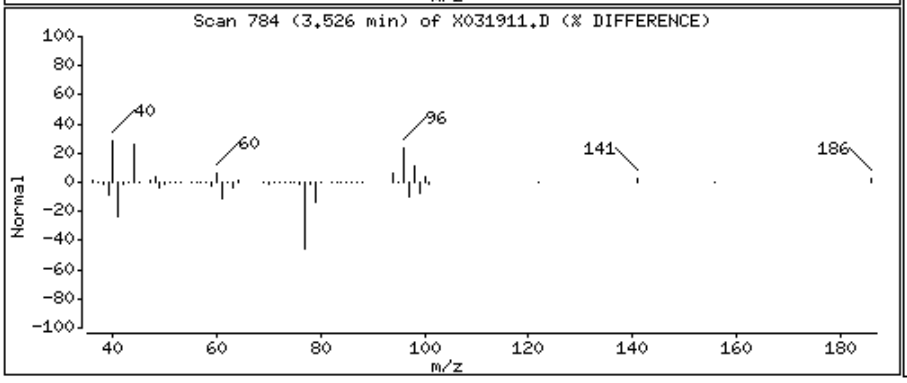
27 cis-1,2-Dichloroethene

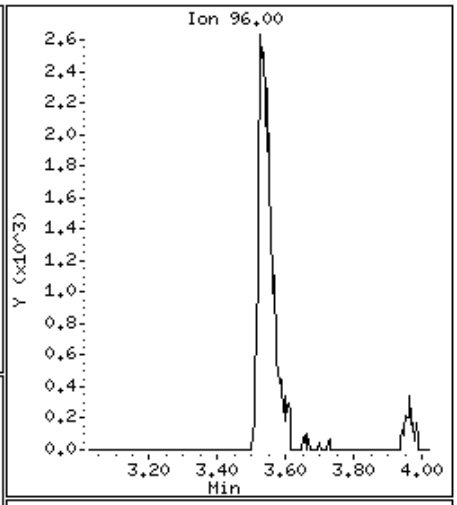
Concentration: 1.36 ug/l

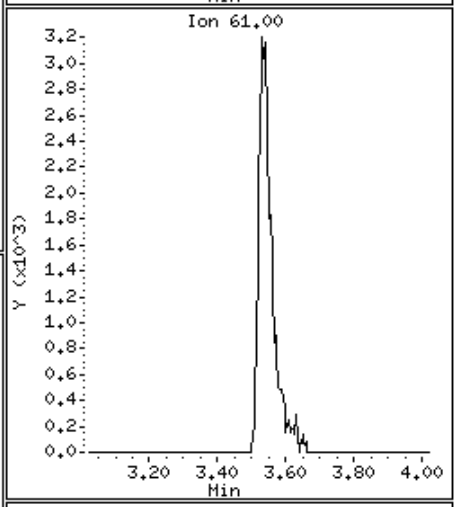


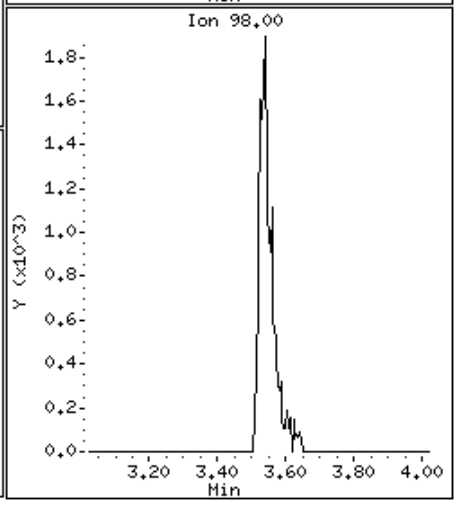












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031911.D
Inj Date : 19-MAR-2023 15:48
InstruID : voa6.i
LabSampID : HS23030818-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031917.D Page 1
Report Date: 21-Mar-2023 10:31

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031917.D
Lab Smp Id: HS23030822-01MS Client Smp ID: HS23030822-01MS
Inj Date : 19-MAR-2023 17:54
Operator : PC Inst ID: voa6.i
Smp Info : HS23030822-01MS;HS23030822-01MS;3;;MS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\8260W.m
Meth Date : 21-Mar-2023 10:30 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 17 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.178	(1.000)	579517	50.0000	
135 1,4-Dioxane	88	5.598	5.594	(1.340)	22474	292.263	292.26(a)
140 1,3-Butadiene	54	1.164	1.164	(0.279)	70754	18.0031	18.00
25 Methacrylonitrile	41	3.825	3.814	(0.916)	79893	14.9582	14.95
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	260984	330.085	330.08(H)
13 Acetonitrile	39	2.198	2.198	(0.526)	77353	143.418	143.41
14 Allyl Chloride	41	2.198	2.198	(0.526)	177492	13.3045	13.30
4 Propionitrile	54	3.649	3.645	(0.873)	109712	134.359	134.35(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	26811	16.6406	16.64
194 Acetaldehyde	44	1.209	1.212	(0.289)	18020	51.5121	51.51(M)
23 Chloroprene	53	1.771	1.767	(0.424)	27902	17.5569	17.55(M)
130 Ethyl Acetate	43	3.653	3.653	(0.874)	97225	16.2436	16.24
40 Methyl Methacrylate	41	5.606	5.602	(1.342)	77724	15.0412	15.04
49 Ethyl Methacrylate	69	6.385	6.708	(1.286)	3213	0.52798	0.52(a)
131 Methyl Acrylate	55	3.686	3.683	(0.882)	84650	14.1044	14.10
132 n-Butanol	56	5.257	5.250	(1.258)	35796	262.969	262.96(a)
136 n-Hexane	57	2.772	2.772	(0.664)	93354	26.0675	26.06
139 Diethyl ether	59	1.756	1.756	(0.420)	55596	14.3177	14.31
142 Tetrahydrofuran	42	3.844	3.840	(0.920)	28867	30.5043	30.50
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	171807	20.0777	20.07

156	Diisopropyl ether	45	2.997	2.997 (0.717)	271296	15.0791	15.07
162	Butyl acrylate	55	8.252	8.249 (1.076)	198442	18.1772	18.17

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031917.D Page 2
Report Date: 21-Mar-2023 10:31

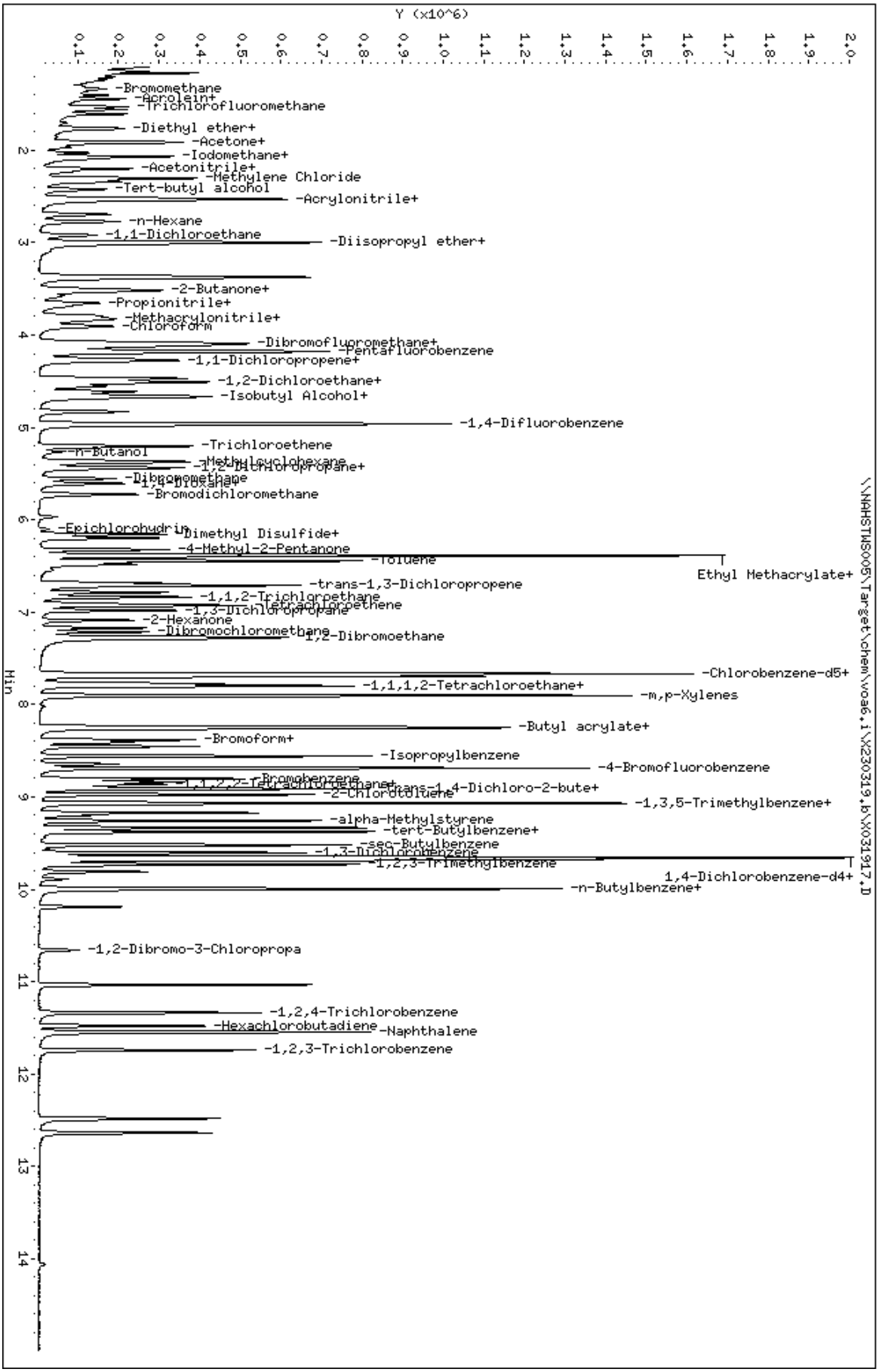
			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	167	Ethanol	45	1.700	1.700	(0.407)	17848	343.401	343.40
	200	Dimethyl Disulfide	94	6.198	6.194	(0.808)	151394	15.6314	15.63
	182	Epichlorohydrin	57	6.101	6.093	(1.229)	19942	42.2867	42.28
	166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	375877	19.9695	19.96
	2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	57796	15.3999	15.39
	3	Chloromethane	50	1.077	1.077	(0.258)	102520	19.2320	19.23
	5	Vinyl Chloride	62	1.141	1.141	(0.273)	80851	17.7130	17.71
	6	Bromomethane	94	1.336	1.340	(0.320)	28165	10.7319	10.73
	7	Chloroethane	64	1.400	1.404	(0.335)	51427	15.8868	15.88(M)
	8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	103545	19.1249	19.12
	9	Acrolein	56	1.445	1.445	(0.346)	11113	35.8084	35.80
	10	Acetone	43	1.973	1.970	(0.472)	38029	21.1794	21.17
	11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	59954	17.2277	17.22
	15	Iodomethane	142	2.026	2.026	(0.485)	120380	36.9157	36.91
	16	Acrylonitrile	53	2.536	2.532	(0.607)	51805	26.7879	26.78
	17	Methylene Chloride	84	2.303	2.299	(0.551)	88200	14.3751	14.37
	18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	263409	14.3751	14.37
	19	Carbon Disulfide	76	2.067	2.067	(0.495)	451219	35.2891	35.28
	20	trans-1,2-Dichloroethene	96	2.528	2.524	(0.605)	86131	17.5477	17.54
	21	Vinyl Acetate	43	2.997	2.993	(0.717)	483867	32.7152	32.71
	22	1,1-Dichloroethane	63	2.918	2.918	(0.699)	154211	17.3474	17.34
	24	2-Butanone	43	3.578	3.574	(0.856)	55985	26.9813	26.98
	26	2,2-Dichloropropane	77	3.506	3.507	(0.839)	140389	19.8960	19.89
	27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	111766	18.8161	18.81
	28	Chloroform	83	3.904	3.900	(0.935)	169150	17.1440	17.14
	29	Bromochloromethane	128	3.795	3.791	(0.908)	53090	15.7940	15.79
$	30	Dibromofluoromethane	113	4.095	4.095	(0.980)	247423	45.7544	45.75
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	148952	20.1883	20.18
	32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	127166	21.5600	21.55
	33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	136744	19.8985	19.89
	34	Carbon Tetrachloride	117	4.260	4.260	(0.858)	129024	22.8511	22.85(H)
$	35	1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	288860	46.3111	46.31
*	36	1,4-Difluorobenzene	114	4.965	4.961	(1.000)	826653	50.0000	
	37	Benzene	78	4.511	4.507	(0.909)	375145	18.4558	18.45
	38	Trichloroethene	130	5.205	5.201	(1.048)	128389	23.4500	23.44
	39	Bromodichloromethane	83	5.726	5.722	(1.153)	136977	18.9840	18.98
	42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	96904	17.6902	17.69(M)
	44	Dibromomethane	93	5.549	5.550	(1.118)	64390	18.4281	18.42
	45	4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	185378	39.6130	39.61
	46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	162409	17.8206	17.82
*	47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	739624	50.0000	
$	48	Toluene-d8	98	6.385	6.382	(0.833)	961298	52.4287	52.42
	50	Toluene	91	6.445	6.445	(0.841)	411241	21.1924	21.19
	51	trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	139699	18.4643	18.46
	52	2-Hexanone	43	7.086	7.083	(0.924)	124534	38.7733	38.77
	53	1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	78746	18.6650	18.66(M)
	54	1,3-Dichloropropane	76	6.981	6.978	(0.911)	166917	19.9072	19.90
	55	Dibromochloromethane	129	7.173	7.173	(0.935)	115158	19.3222	19.32
	56	Tetrachloroethene	164	6.925	6.925	(0.903)	96871	24.9024	24.90
	57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	105429	20.2173	20.21
	58	1-Chlorohexane	55	7.694	7.694	(1.550)	92361	24.5937	24.59
	59	Chlorobenzene	112	7.690	7.690	(1.003)	282065	20.3400	20.33

60 1,1,1,2-Tetrachloroethane	131	7.772	7.772 (1.014)	103401	19.3492	19.34
61 Ethylbenzene	106	7.799	7.799 (1.017)	141791	20.7761	20.77

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	62 m,p-Xylenes	106	7.904	7.900	(1.031)	359910	41.9041	41.90
	63 o-Xylene	106	8.241	8.241	(1.075)	175270	20.3084	20.30(H)
	64 Styrene	104	8.260	8.256	(1.077)	294038	20.6188	20.61
	66 Bromoform	173	8.410	8.406	(1.097)	79667	19.3319	19.33(H)
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	440946	22.3077	22.30
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	134776	19.7070	19.70
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	354436	50.6197	50.61
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	392495	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	99643	19.3865	19.38(MH)
	73 n-Propylbenzene	91	8.912	8.908	(0.922)	514891	23.6033	23.60
	74 Bromobenzene	156	8.803	8.803	(0.911)	131196	20.7909	20.79
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	377476	22.3095	22.30
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	326589	22.2673	22.26
	77 4-Chlorotoluene	91	9.069	9.069	(0.939)	367245	22.2155	22.21
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	320633	23.7922	23.79
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	387238	22.3158	22.31
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	445551	24.3928	24.39
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	389673	23.9082	23.90
	83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	230502	21.1200	21.11
	84 1,4-Dichlorobenzene	146	9.680	9.681	(1.002)	239998	20.4602	20.46
	87 n-Butylbenzene	91	9.995	9.992	(1.035)	338325	25.7552	25.75
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	232053	21.2578	21.25
	89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	24172	20.1023	20.10
	90 1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	162740	20.3916	20.39
	91 Hexachlorobutadiene	225	11.480	11.476	(1.188)	70934	24.4141	24.41
	92 Naphthalene	128	11.544	11.540	(1.195)	396367	20.6931	20.69
	93 1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	154784	20.2680	20.26
M	94 1,2-Dichloroethylene (total)	96				197897	36.3639	36.36
M	95 Xylenes (total)	106				535180	62.2124	62.21
	141 Cyclohexane	56	4.121	4.121	(0.987)	135729	23.3569	23.35
	138 Freon TF	101	1.913	1.913	(0.458)	67535	22.1733	22.17(M)
	147 Methylcyclohexane	55	5.381	5.377	(1.084)	218137	19.1116	19.11
	146 Methyl Acetate	43	2.232	2.232	(0.534)	49711	14.9240	14.92
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	186934	308.021	308.02
	149 Isopropyl Alcohol	45	2.093	2.090	(0.501)	96210	296.677	296.67

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: HS230308822-01MS
Sample Info: HS230308822-01MS;HS230308822-01MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031917.D
Inj Date : 19-MAR-2023 17:54
InstruID : voa6.i
LabSampID : HS23030822-01MS

Chloroethane (75-00-3)

Reason Code:

BEFORE

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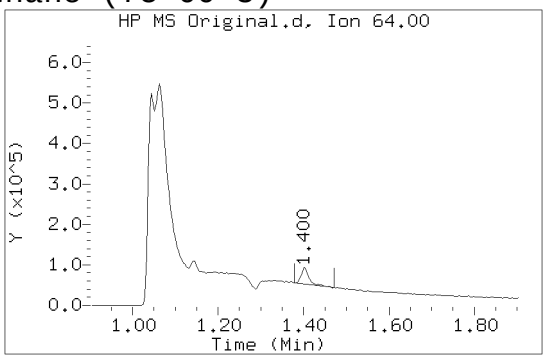
51427
HEIGHT
39973
21-Mar-2023
10:30
linh
pham



AFTER

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21-Mar-2023
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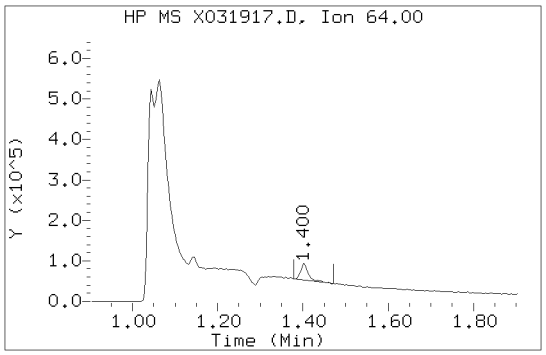

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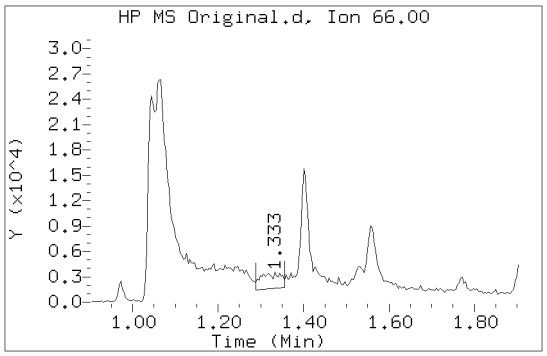

AFTER

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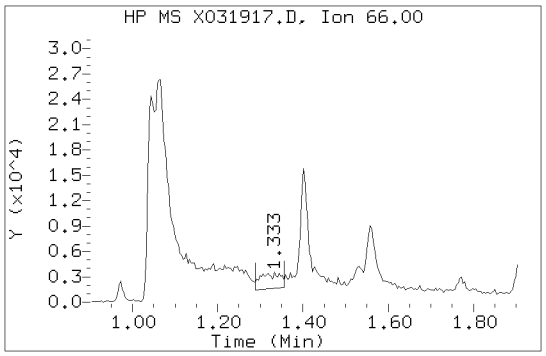

1,2-Dichloropropane (78-87-5)

Reason Code:

BEFORE

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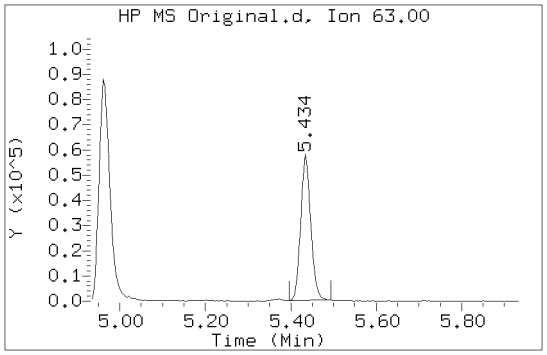

AFTER

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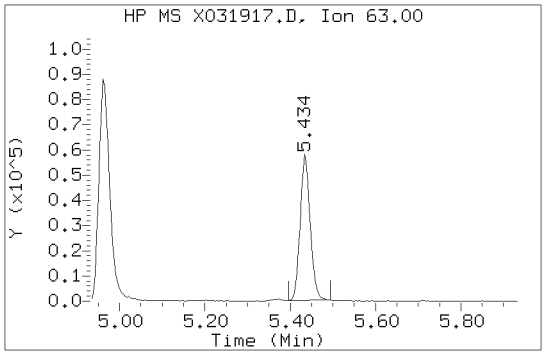

BEFORE

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21-Mar-2023
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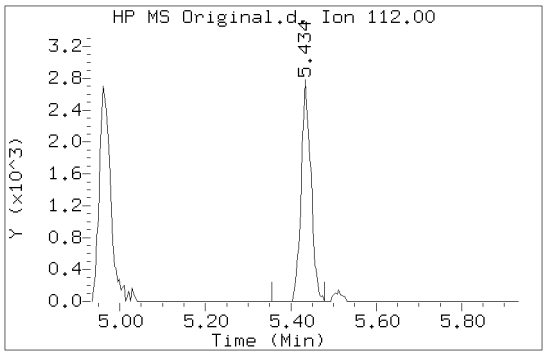

AFTER

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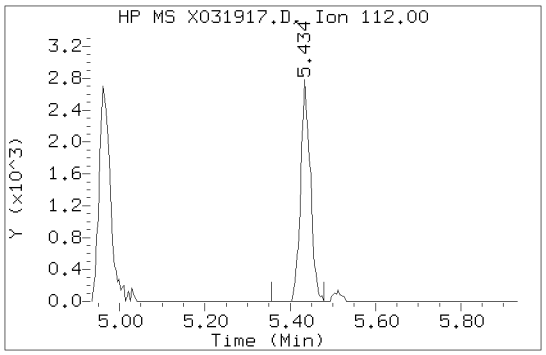

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InstruID : voa6.i
LabSampID : HS23030822-01MS

1,1,2-Trichloroethane (79-00-5)

Reason Code:

BEFORE

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21-Mar-2023
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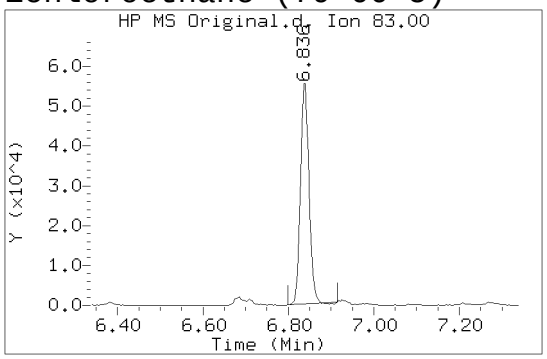

AFTER

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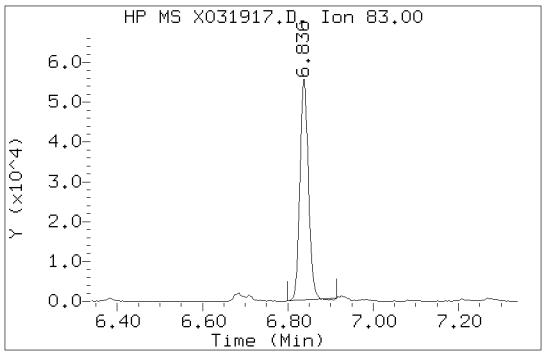

BEFORE

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AREA
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HEIGHT
68291
21-Mar-2023
10:30
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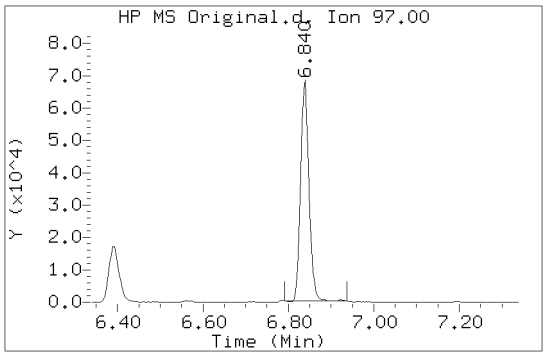

AFTER

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21-Mar-2023
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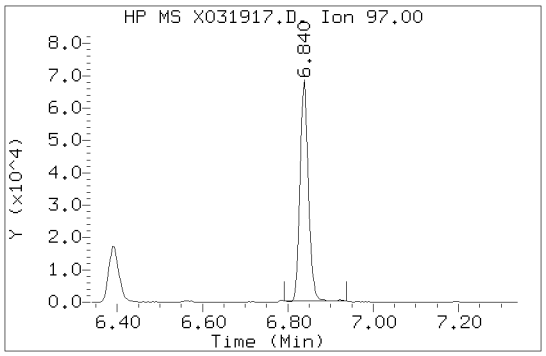

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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HEIGHT
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21-Mar-2023
10:30
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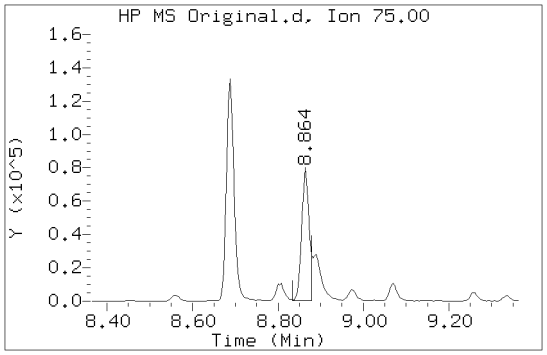

AFTER

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21-Mar-2023
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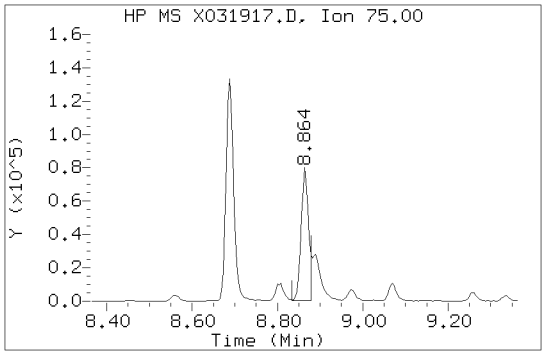

BEFORE

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77
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24823
21-Mar-2023
10:30
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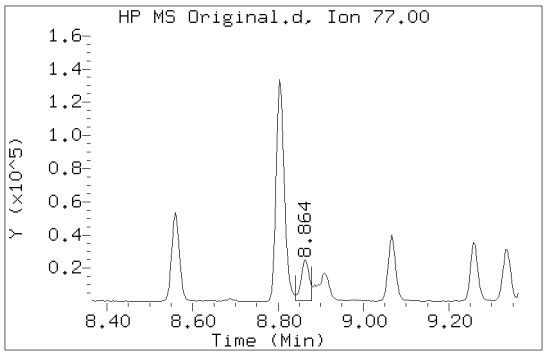

AFTER

MASS
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24823
21-Mar-2023
10:30
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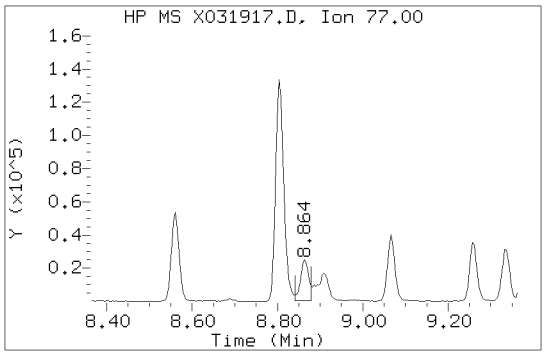

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Inj Date : 19-MAR-2023 17:54
InstruID : voa6.i
LabSampID : HS23030822-01MS

Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
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21-Mar-2023
10:30
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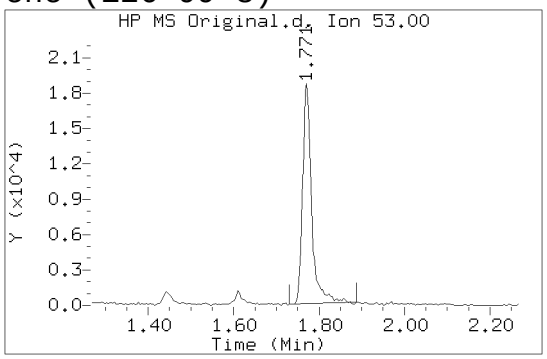

AFTER

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21-Mar-2023
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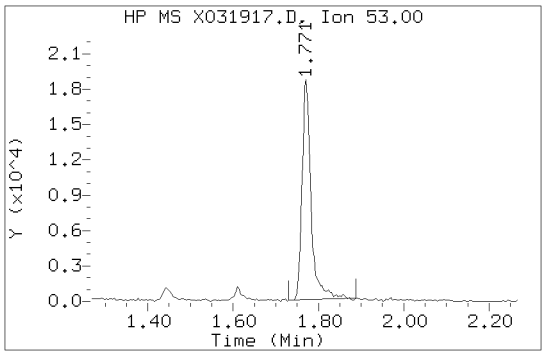

BEFORE

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21-Mar-2023
10:30
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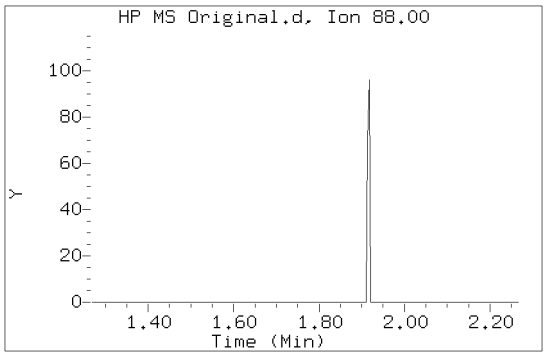

AFTER

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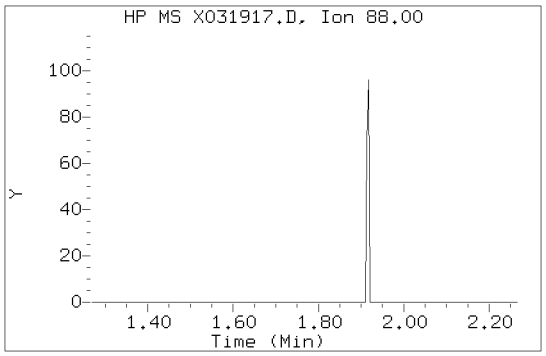

Freon TF (76-13-1)

Reason Code:

BEFORE

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AREA
67535
HEIGHT
35466
21-Mar-2023
10:30
linh
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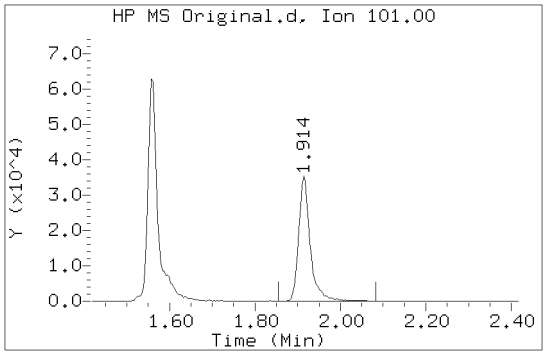

AFTER

MASS
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21-Mar-2023
10:30
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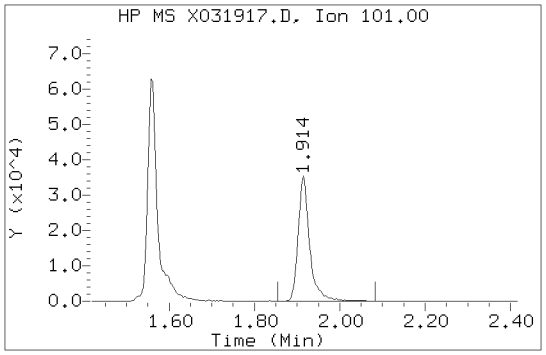

BEFORE

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21-Mar-2023
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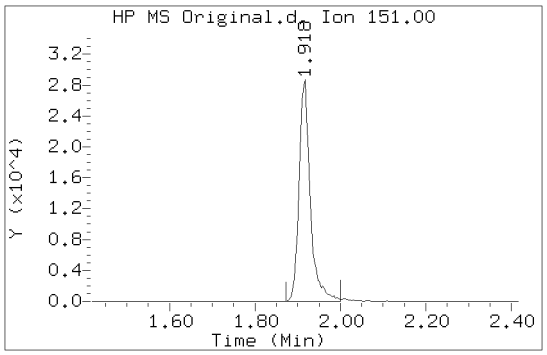

AFTER

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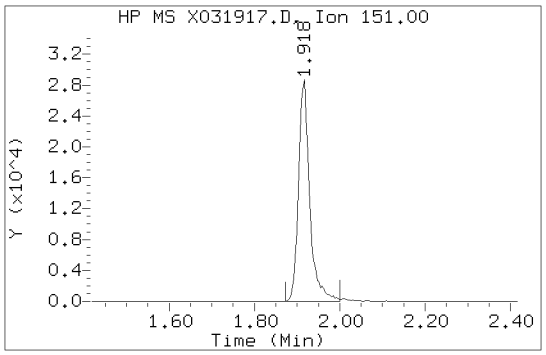

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Inj Date : 19-MAR-2023 17:54
InstruID : voa6.i
LabSampID : HS23030822-01MS

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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21-Mar-2023
10:30
linh
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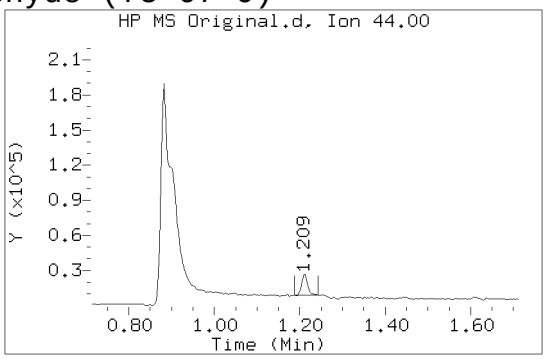

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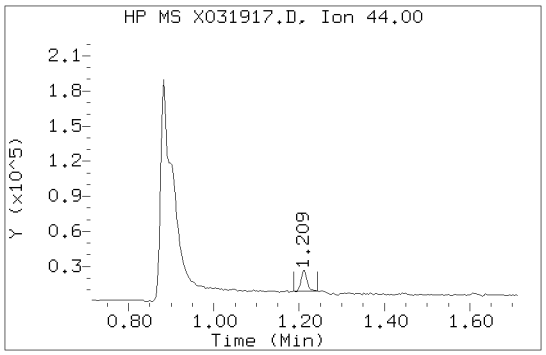

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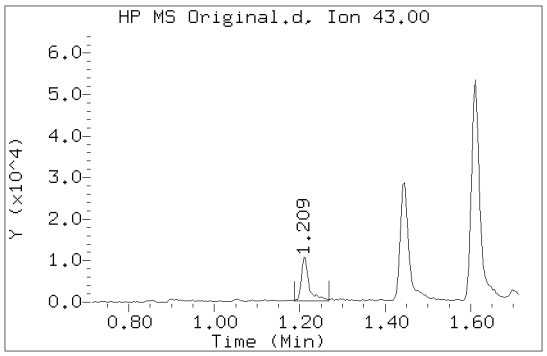

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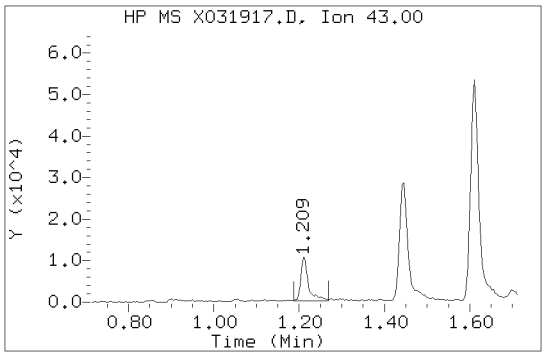

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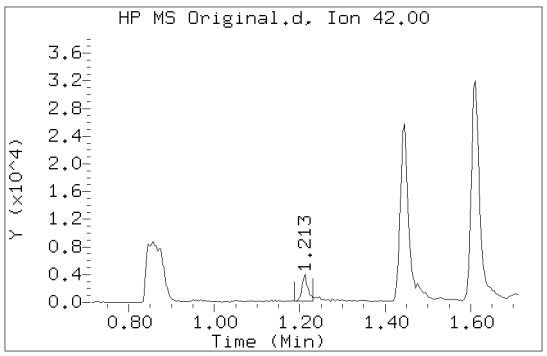

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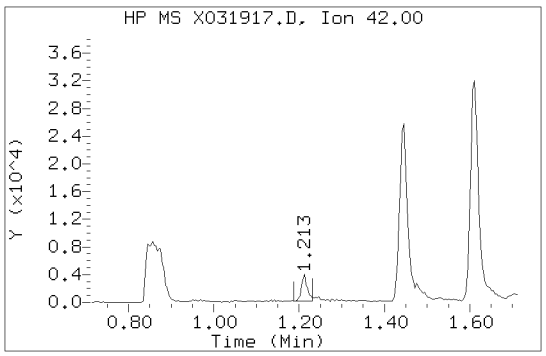

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Report Date: 22-Mar-2023 10:11

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031918.D
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Inj Date : 19-MAR-2023 18:15
Operator : PC Inst ID: voa6.i
Smp Info : HS23030822-01MSD;HS23030822-01MSD;3;;MSD
Misc Info : V6;WATER;0;1;
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Als bottle: 17 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7017

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	578469	50.0000	
135 1,4-Dioxane	88	5.598	5.594	(1.340)	23135	301.404	301.40(a)
140 1,3-Butadiene	54	1.164	1.164	(0.279)	76846	19.5886	19.58
25 Methacrylonitrile	41	3.825	3.814	(0.916)	86386	16.2031	16.20
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	280570	355.500	355.49(H)
13 Acetonitrile	39	2.198	2.198	(0.526)	93912	174.435	174.43
14 Allyl Chloride	41	2.198	2.198	(0.526)	198041	14.8717	14.87
4 Propionitrile	54	3.653	3.645	(0.874)	121809	149.444	149.44(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	28966	17.7457	17.74
194 Acetaldehyde	44	1.212	1.212	(0.290)	23476	67.4795	67.47(M)
23 Chloroprene	53	1.771	1.767	(0.424)	27211	17.1531	17.15(M)
130 Ethyl Acetate	43	3.656	3.653	(0.875)	103364	17.3005	17.30
40 Methyl Methacrylate	41	5.606	5.602	(1.342)	86481	16.7662	16.76
49 Ethyl Methacrylate	69	6.393	6.708	(1.289)	3087	0.50890	0.50(a)
131 Methyl Acrylate	55	3.690	3.683	(0.883)	89659	14.9661	14.96
132 n-Butanol	56	5.257	5.250	(1.258)	40393	293.141	293.14(a)
136 n-Hexane	57	2.772	2.772	(0.664)	92624	25.9236	25.92
139 Diethyl ether	59	1.756	1.756	(0.420)	58888	15.1930	15.19
142 Tetrahydrofuran	42	3.844	3.840	(0.920)	29895	31.6478	31.64
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	184169	20.8603	20.86

156 Diisopropyl ether	45	2.997	2.997 (0.717)	293757	16.3571	16.35
162 Butyl acrylate	55	8.252	8.249 (1.076)	217528	19.7080	19.70

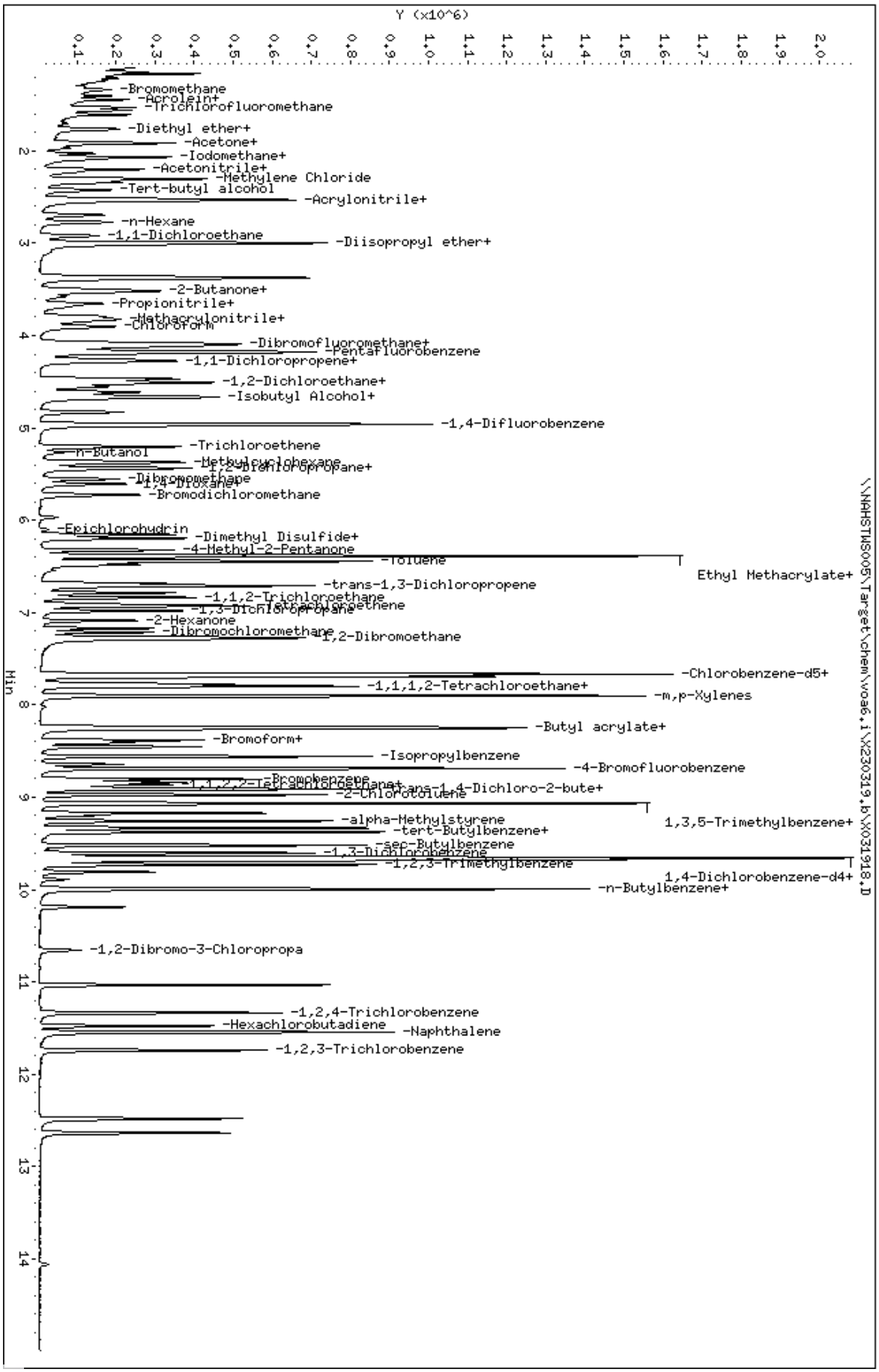
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	167 Ethanol	45	1.703	1.700	(0.408)	17273	332.940	332.94
	200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	189648	19.3674	19.36
	182 Epichlorohydrin	57	6.101	6.093	(1.230)	19906	42.3450	42.34
	166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	400988	20.6483	20.64
	2 Dichlorodifluoromethane	85	0.972	0.972	(0.233)	56920	15.2039	15.20
	3 Chloromethane	50	1.077	1.077	(0.258)	101698	19.1124	19.11
	5 Vinyl Chloride	62	1.141	1.141	(0.273)	83858	18.4050	18.40
	6 Bromomethane	94	1.340	1.340	(0.321)	34976	13.3512	13.35
	7 Chloroethane	64	1.400	1.404	(0.335)	51568	15.9592	15.95(M)
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	115762	21.4202	21.42
	9 Acrolein	56	1.441	1.445	(0.345)	10162	33.0649	33.06
	10 Acetone	43	1.973	1.970	(0.472)	39449	22.2140	22.21
	11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	61500	17.7040	17.70
	15 Iodomethane	142	2.026	2.026	(0.485)	141113	41.6573	41.65
	16 Acrylonitrile	53	2.532	2.532	(0.606)	58899	30.5113	30.51
	17 Methylene Chloride	84	2.303	2.299	(0.551)	103431	17.1905	17.19
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	288458	15.7706	15.77
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	445593	34.9122	34.91
	20 trans-1,2-Dichloroethene	96	2.528	2.524	(0.605)	87804	17.9210	17.92
	21 Vinyl Acetate	43	2.997	2.993	(0.717)	517106	35.0259	35.02
	22 1,1-Dichloroethane	63	2.918	2.918	(0.699)	160876	18.1300	18.12
	24 2-Butanone	43	3.582	3.574	(0.857)	64860	31.3151	31.31
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	144071	20.4619	20.46
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	111953	18.8818	18.88
	28 Chloroform	83	3.904	3.900	(0.935)	182351	18.5154	18.51
	29 Bromochloromethane	128	3.791	3.791	(0.908)	57760	17.2145	17.21
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	245487	45.4739	45.47
	31 1,1,1-Trichloroethane	97	4.076	4.080	(0.976)	152811	20.7489	20.74
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	131324	22.3360	22.33
	33 1,2-Dichloroethane	62	4.556	4.552	(0.918)	142722	20.8347	20.83
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	131198	23.3103	23.31(H)
$	35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	277857	44.6659	44.66
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	824024	50.0000	
	37 Benzene	78	4.511	4.507	(0.909)	399051	19.6945	19.69
	38 Trichloroethene	130	5.205	5.201	(1.049)	120545	22.0875	22.08
	39 Bromodichloromethane	83	5.726	5.722	(1.154)	147411	20.4953	20.49
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	104813	19.1951	19.19(M)
	44 Dibromomethane	93	5.553	5.550	(1.119)	69544	19.9667	19.96
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	197023	41.6419	41.64
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	175138	19.2787	19.27
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	747786	50.0000	
$	48 Toluene-d8	98	6.382	6.382	(0.832)	960486	51.8126	51.81
	50 Toluene	91	6.445	6.445	(0.841)	434573	22.1503	22.15
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.347)	149133	19.7741	19.77
	52 2-Hexanone	43	7.086	7.083	(0.924)	133718	41.1783	41.17
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	85062	19.9420	19.94(M)
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	179810	21.2108	21.21
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	125640	20.8508	20.85
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	97457	24.7796	24.77
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	112508	21.3393	21.33
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	95402	25.4034	25.40
	59 Chlorobenzene	112	7.694	7.690	(1.003)	302782	21.5956	21.59

60 1,1,1,2-Tetrachloroethane	131	7.772	7.772 (1.014)	112216	20.7696	20.76
61 Ethylbenzene	106	7.799	7.799 (1.017)	149446	21.6587	21.65

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	381955	43.9854	43.98
	63 o-Xylene	106	8.241	8.241	(1.075)	187112	21.4438	21.44(H)
	64 Styrene	104	8.260	8.256	(1.077)	314595	21.8196	21.81
	66 Bromoform	173	8.410	8.406	(1.097)	84024	20.1666	20.16(H)
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	462020	23.1187	23.11
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	145025	20.5533	20.55
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	366867	51.8274	51.82
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	404951	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	107208	20.2168	20.21(H)
	73 n-Propylbenzene	91	8.912	8.908	(0.922)	547220	24.3137	24.31
	74 Bromobenzene	156	8.803	8.803	(0.911)	142499	21.8875	21.88
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	405717	23.2410	23.24
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	342296	22.6204	22.62
	77 4-Chlorotoluene	91	9.070	9.069	(0.939)	400066	23.4566	23.45
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	339630	24.4266	24.42
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	414274	23.1395	23.13
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	467085	24.7852	24.78
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	413723	24.6030	24.60
	83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	247519	21.9816	21.98
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	260603	21.5334	21.53
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	360860	26.6257	26.62
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	249017	22.1101	22.11
	89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	24958	20.1164	20.11
	90 1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	181016	21.9839	21.98
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	76093	25.2898	25.28
	92 Naphthalene	128	11.544	11.540	(1.195)	424810	21.4958	21.49
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	169845	21.5561	21.55
M	94 1,2-Dichloroethylene (total)	96				199757	36.8027	36.80
M	95 Xylenes (total)	106				569067	65.4292	65.42
	141 Cyclohexane	56	4.118	4.121	(0.986)	133071	22.9788	22.97
	138 Freon TF	101	1.913	1.913	(0.458)	64369	21.2422	21.24(M)
	147 Methylcyclohexane	55	5.381	5.377	(1.085)	227918	20.0322	20.03
	146 Methyl Acetate	43	2.228	2.232	(0.533)	56717	17.0581	17.05
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	207430	342.413	342.41
	149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	97992	302.720	302.71

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 19-MAR-2023 18:15
InstruID : voa6.i
LabSampID : HS23030822-01MSD

Chloroethane (75-00-3)

Reason Code:

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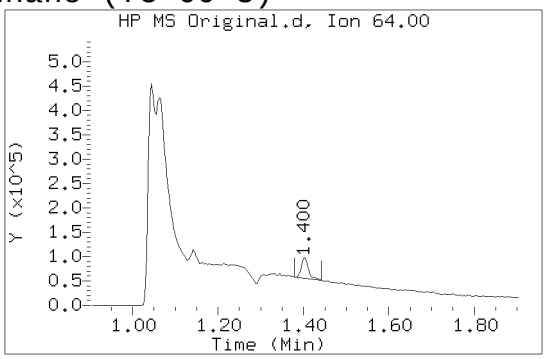
HEIGHT
41752
22-Mar-2023
10:10
nieka
carson



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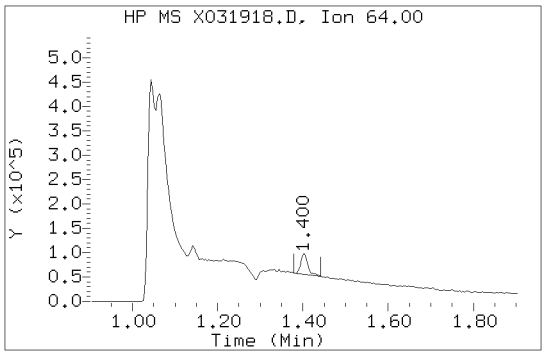

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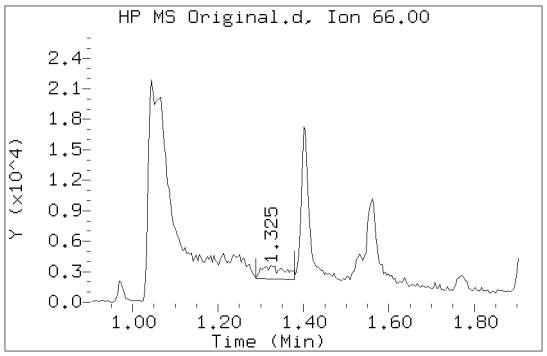

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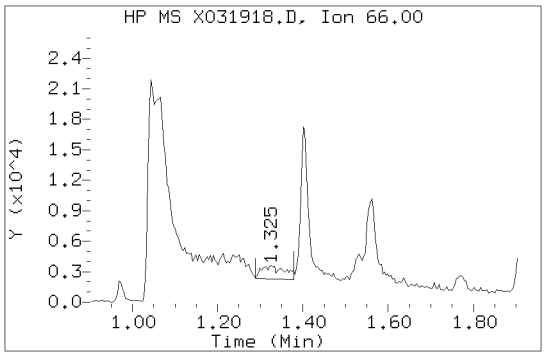

1,2-Dichloropropane (78-87-5)

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nieka
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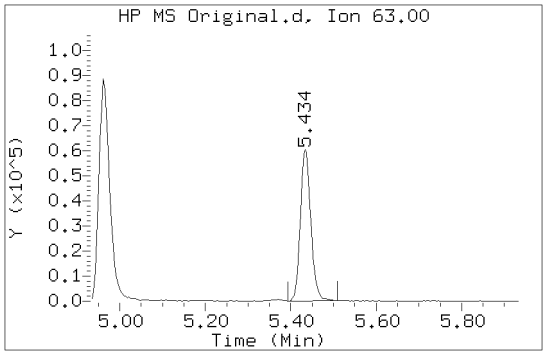

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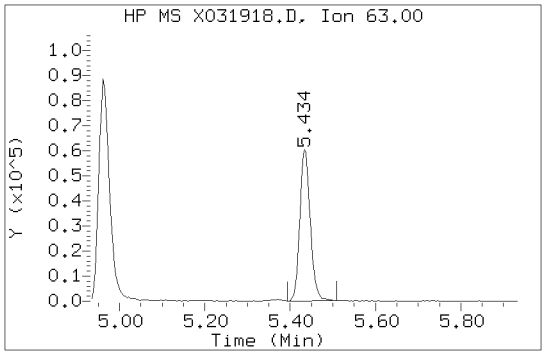

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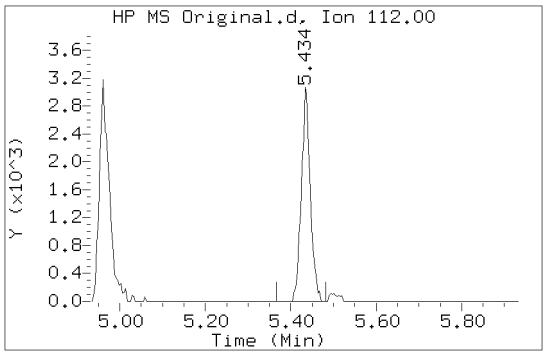

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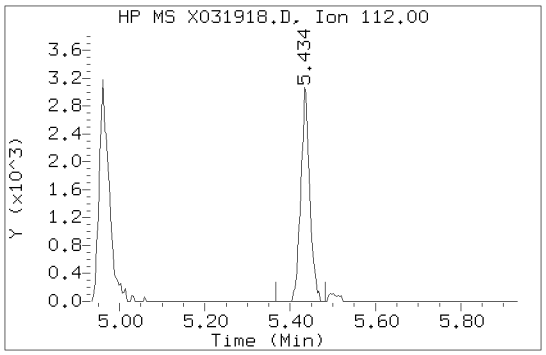

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Inj Date : 19-MAR-2023 18:15
InstruID : voa6.i
LabSampID : HS23030822-01MSD

1,1,2-Trichloroethane (79-00-5)

Reason Code:

BEFORE

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HEIGHT
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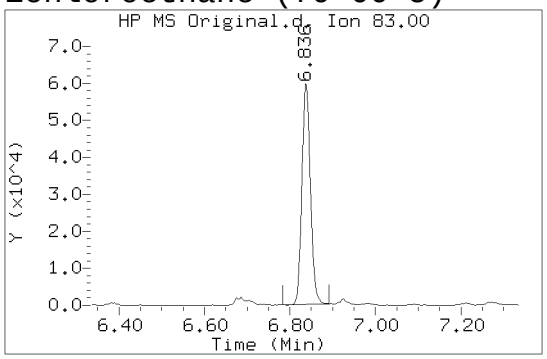
22-Mar-2023
10:10
nieka
carson



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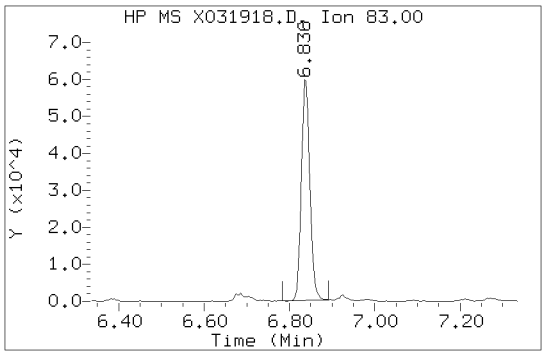

BEFORE

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22-Mar-2023
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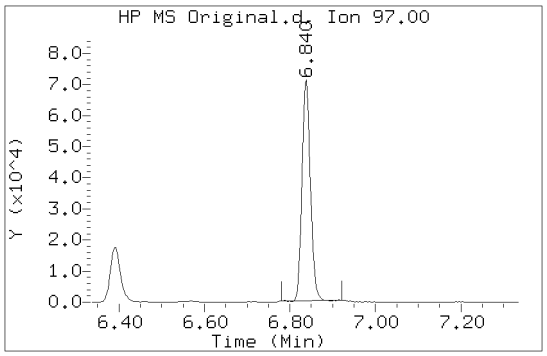

AFTER

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71014
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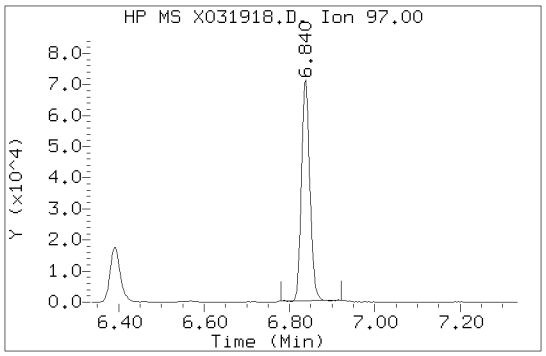

Chloroprene (126-99-8)

Reason Code:

BEFORE

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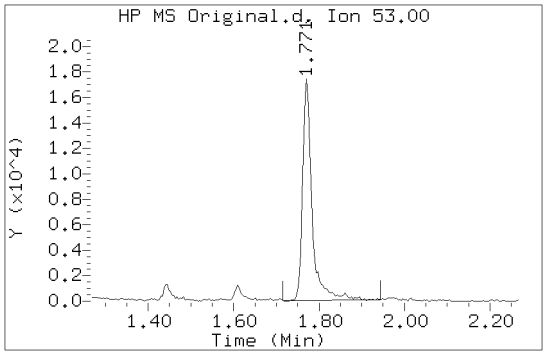
carson



AFTER

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22-Mar-2023
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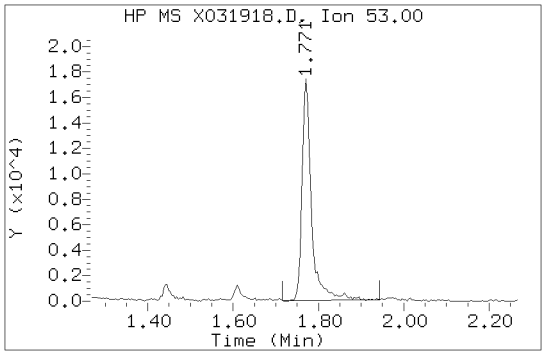

BEFORE

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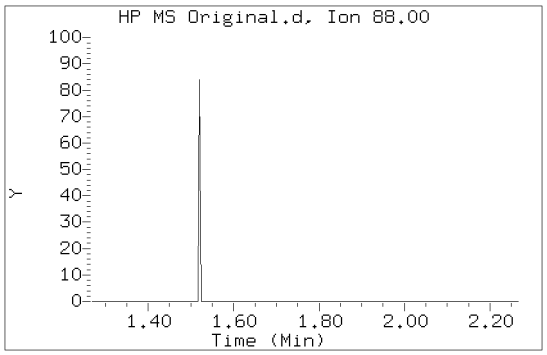

AFTER

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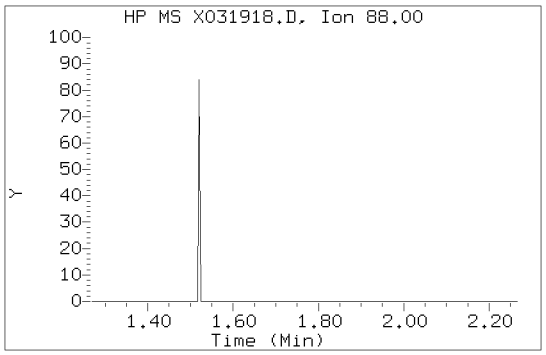

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Inj Date : 19-MAR-2023 18:15
InstruID : voa6.i
LabSampID : HS23030822-01MSD

Freon TF (76-13-1)

Reason Code:

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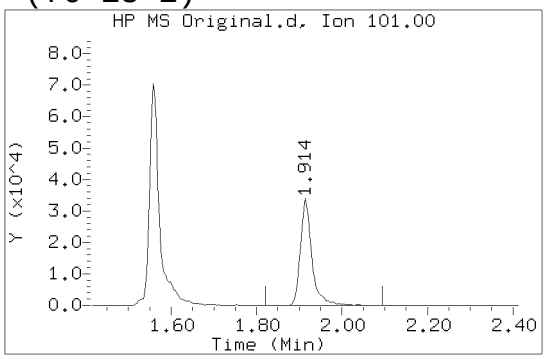

AFTER

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10:10
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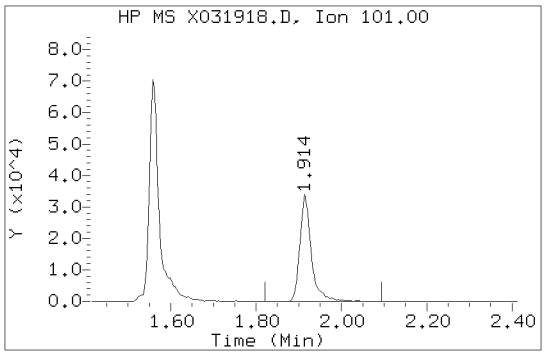

BEFORE

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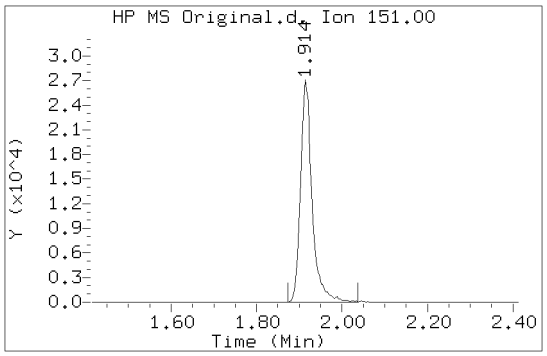

AFTER

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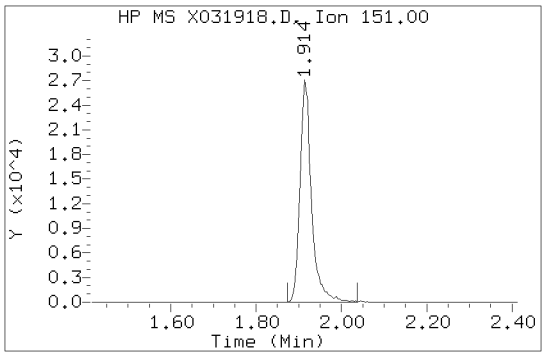

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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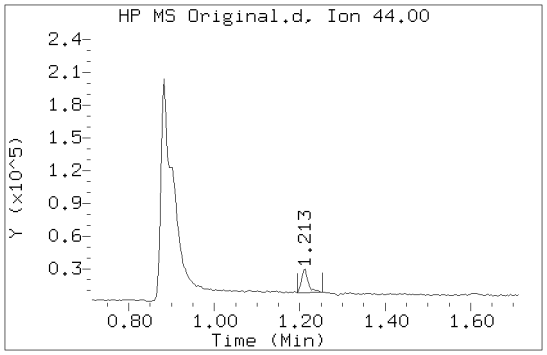
21588
22-Mar-2023
10:10
nieka
carson



AFTER

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22-Mar-2023
10:10
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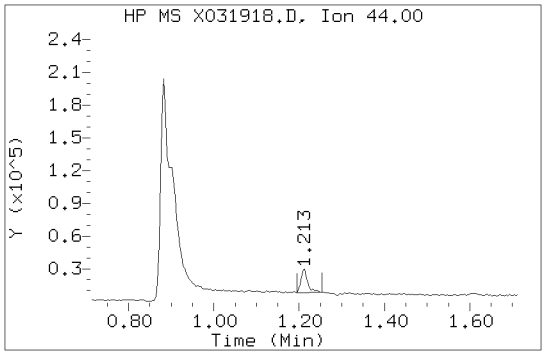

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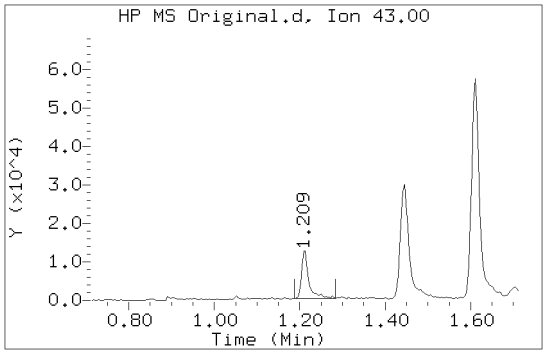
22-Mar-2023
10:10
nieka
carson



AFTER

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HEIGHT
12411
22-Mar-2023
10:10
nieka
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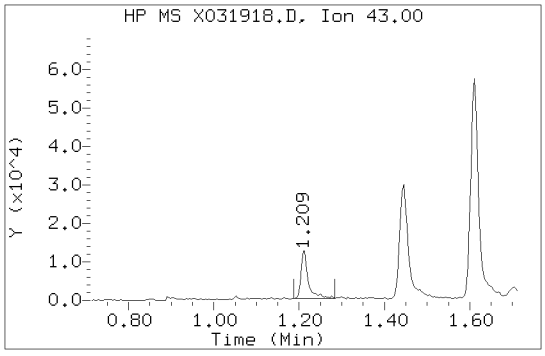

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InstruID : voa6.i
LabSampID : HS23030822-01MSD

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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22-Mar-2023
10:10
nieka
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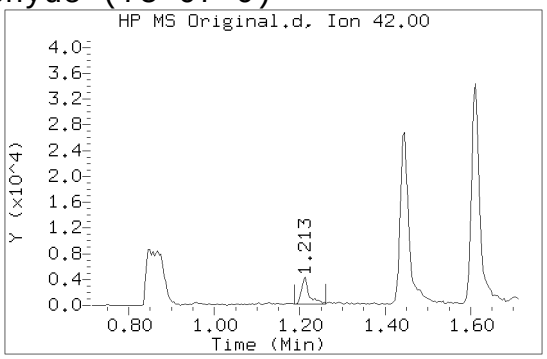

AFTER

MASS
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HEIGHT
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22-Mar-2023
10:10
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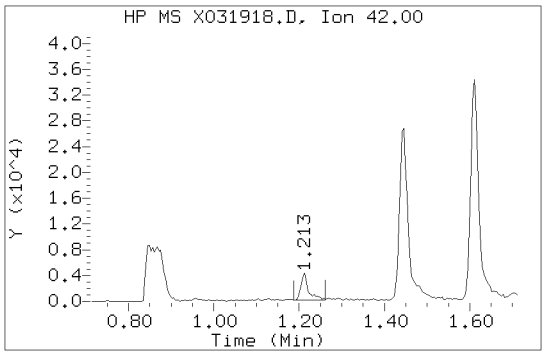


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031919.D Page 1
Report Date: 22-Mar-2023 10:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031919.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 19-MAR-2023 18:36
Operator : PC Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\8260W.m
Meth Date : 22-Mar-2023 10:16 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 18 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7017

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	424552	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	49280	1000.00	874.77
140 1,3-Butadiene	54	1.164	1.164	(0.279)	126871	50.0000	44.06
25 Methacrylonitrile	41	3.814	3.814	(0.913)	205825	50.0000	52.60
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	618866	1000.00	1068.42(H)
13 Acetonitrile	39	2.194	2.194	(0.525)	214634	500.000	543.19
14 Allyl Chloride	41	2.194	2.194	(0.525)	464140	50.0000	47.49
4 Propionitrile	54	3.645	3.645	(0.873)	297943	500.000	498.06
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	72831	50.0000	50.40
194 Acetaldehyde	44	1.209	1.209	(0.289)	47164	200.000	186.13(M)
23 Chloroprene	53	1.771	1.771	(0.424)	45122	50.0000	38.75(M)
130 Ethyl Acetate	43	3.653	3.653	(0.874)	231010	50.0000	52.68
40 Methyl Methacrylate	41	5.602	5.602	(1.341)	200076	50.0000	52.85
131 Methyl Acrylate	55	3.683	3.683	(0.882)	215659	50.0000	49.04
132 n-Butanol	56	5.250	5.250	(1.257)	96573	1000.00	883.35
136 n-Hexane	57	2.772	2.772	(0.664)	117066	50.0000	42.12
139 Diethyl ether	59	1.756	1.756	(0.420)	130943	50.0000	46.03
142 Tetrahydrofuran	42	3.840	3.840	(0.919)	73753	100.000	106.38
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	357189	50.0000	45.35
156 Diisopropyl ether	45	2.997	2.997	(0.717)	649901	50.0000	49.30

162	Butyl acrylate	55	8.249	8.249 (1.076)	508667	50.0000	53.09
167	Ethanol	45	1.700	1.700 (0.407)	31607	1000.00	830.10

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031919.D Page 2
Report Date: 22-Mar-2023 10:16

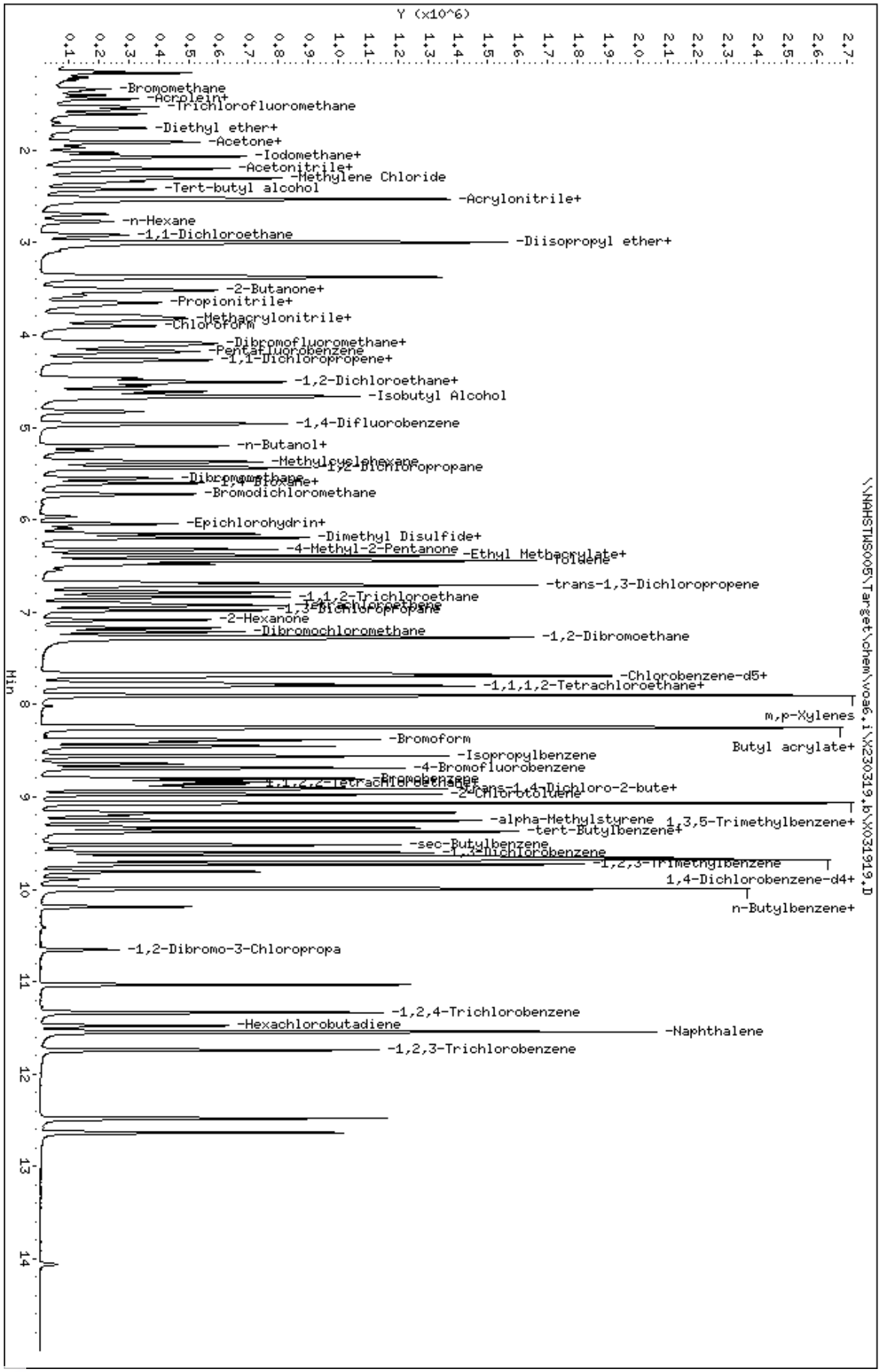
			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	200	Dimethyl Disulfide	94	6.194	6.194	(0.808)	453493	50.0000	53.35
	182	Epichlorohydrin	57	6.093	6.093	(1.227)	76932	200.000	197.01
	166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	827634	50.0000	47.77
	2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	122181	50.0000	42.46
	3	Chloromethane	50	1.077	1.077	(0.258)	158561	50.0000	40.60
	5	Vinyl Chloride	62	1.141	1.141	(0.273)	149064	50.0000	44.57
	6	Bromomethane	94	1.340	1.340	(0.321)	84134	50.0000	43.75
	7	Chloroethane	64	1.404	1.404	(0.336)	113814	50.0000	47.99(M)
	8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	186670	50.0000	47.06
	9	Acrolein	56	1.445	1.445	(0.346)	21524	100.000	89.54
	10	Acetone	43	1.970	1.970	(0.472)	104788	100.000	94.02
	11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	106003	50.0000	41.57
	15	Iodomethane	142	2.026	2.026	(0.485)	265857	100.000	90.27
	16	Acrylonitrile	53	2.532	2.532	(0.606)	142948	100.000	100.89
	17	Methylene Chloride	84	2.299	2.299	(0.550)	207512	50.0000	49.99
	18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	657178	50.0000	48.95
	19	Carbon Disulfide	76	2.067	2.067	(0.495)	847629	100.000	90.48
	20	trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	169684	50.0000	47.18
	21	Vinyl Acetate	43	2.993	2.993	(0.716)	1174445	100.000	108.39
	22	1,1-Dichloroethane	63	2.918	2.918	(0.699)	312636	50.0000	48.00
	24	2-Butanone	43	3.574	3.574	(0.856)	150389	100.000	98.93
	26	2,2-Dichloropropane	77	3.507	3.507	(0.839)	243648	50.0000	47.48
	27	cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	212569	50.0000	48.84
	28	Chloroform	83	3.900	3.900	(0.934)	355220	50.0000	49.14
	29	Bromochloromethane	128	3.791	3.791	(0.908)	119197	50.0000	48.40
$	30	Dibromofluoromethane	113	4.095	4.095	(0.980)	223535	50.0000	56.60
	31	1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	258673	50.0000	47.85
	32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	210238	50.0000	43.04
	33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	301615	50.0000	53.00
	34	Carbon Tetrachloride	117	4.260	4.260	(0.858)	200429	50.0000	42.87(H)
$	35	1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	260350	50.0000	56.73
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	684491	50.0000	
	37	Benzene	78	4.507	4.507	(0.908)	759105	50.0000	45.10
	38	Trichloroethene	130	5.205	5.205	(1.048)	206518	50.0000	45.55
	39	Bromodichloromethane	83	5.722	5.722	(1.153)	299167	50.0000	50.07
	41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	175465	100.000	96.59
	42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	208549	50.0000	45.97(M)
	44	Dibromomethane	93	5.550	5.550	(1.118)	145646	50.0000	50.34
	45	4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	431483	100.000	105.07
	46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	363772	50.0000	48.20
*	47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	649027	50.0000	
$	48	Toluene-d8	98	6.382	6.382	(0.832)	796847	50.0000	49.52
	50	Toluene	91	6.445	6.445	(0.841)	802075	50.0000	47.10
	51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	317877	50.0000	50.74
	52	2-Hexanone	43	7.083	7.083	(0.924)	294104	100.000	104.35
	53	1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	179023	50.0000	48.35(M)
	54	1,3-Dichloropropane	76	6.978	6.978	(0.910)	366383	50.0000	49.79
	55	Dibromochloromethane	129	7.173	7.173	(0.935)	259982	50.0000	49.71
	56	Tetrachloroethene	164	6.925	6.925	(0.903)	149759	50.0000	43.87
	57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	232760	50.0000	50.86
	58	1-Chlorohexane	55	7.694	7.694	(1.550)	130808	50.0000	40.47
	59	Chlorobenzene	112	7.694	7.694	(1.003)	570043	50.0000	46.84

60 1,1,1,2-Tetrachloroethane	131	7.772	7.772 (1.014)	222587	50.0000	47.46
61 Ethylbenzene	106	7.799	7.799 (1.017)	260408	50.0000	43.48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	664801	100.000	88.20(H)
	63 o-Xylene	106	8.241	8.241	(1.075)	339108	50.0000	44.77(H)
	64 Styrene	104	8.256	8.256	(1.077)	609224	50.0000	48.68(H)
	66 Bromoform	173	8.410	8.410	(1.097)	183944	50.0000	50.86(H)
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	729240	50.0000	42.04
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	305098	50.0000	48.47
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	327181	50.0000	53.25
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	361221	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	238631	50.0000	50.44(MH)
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	859740	50.0000	42.82
	74 Bromobenzene	156	8.803	8.803	(0.911)	277763	50.0000	47.82
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	666275	50.0000	42.78
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	609243	50.0000	45.13
	77 4-Chlorotoluene	91	9.069	9.069	(0.939)	711091	50.0000	46.73
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	512257	50.0000	41.30
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	716725	50.0000	44.87
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	674490	50.0000	40.12
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	636392	50.0000	42.42
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	457374	50.0000	45.53
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	483799	50.0000	44.81
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	526564	50.0000	43.55
	88 1,2-Dichlorobenzene	146	9.988	9.988	(1.034)	471922	50.0000	46.97
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	56489	50.0000	48.76
	90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	334294	50.0000	45.51
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	106343	50.0000	38.07
	92 Naphthalene	128	11.540	11.540	(1.194)	883369	50.0000	50.11
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	323503	50.0000	46.02
M	94 1,2-Dichloroethylene (total)	96				382253	100.000	(a)
	141 Cyclohexane	56	4.118	4.118	(0.986)	179540	50.0000	40.21
	138 Freon TF	101	1.913	1.913	(0.458)	89261	50.0000	38.51(M)
	147 Methylcyclohexane	55	5.377	5.377	(1.083)	474883	50.0000	50.24
	146 Methyl Acetate	43	2.228	2.228	(0.533)	131625	50.0000	53.93
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	437634	1000.00	984.32
	149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	225952	1000.00	951.07

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031919.D
Date : 19-MAR-2023 18:36
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

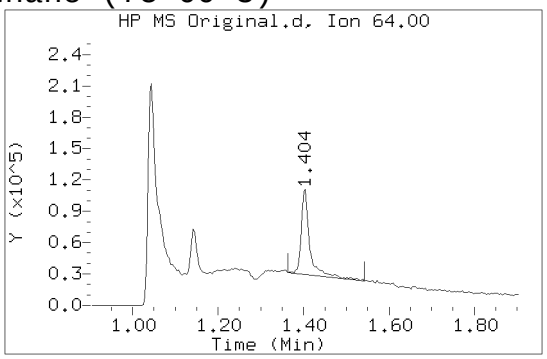
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031919.D
Inj Date : 19-MAR-2023 18:36
InstruID : voa6.i
LabSampID : CCV-END

Chloroethane (75-00-3)

Reason Code:

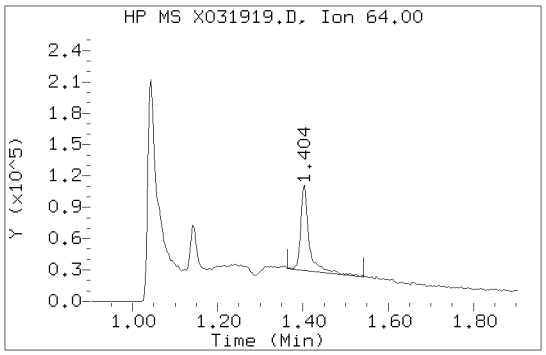
BEFORE

MASS
64
AREA
113814
HEIGHT
81662
22-Mar-2023
10:11
nieka
carson



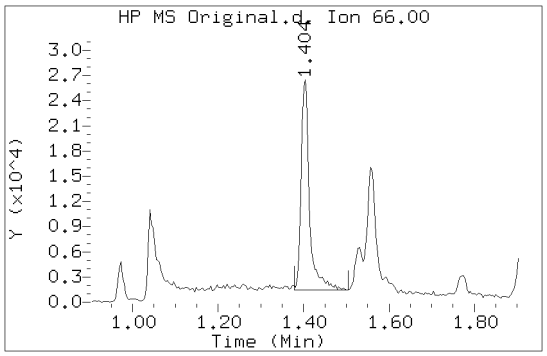
AFTER

MASS
64
AREA
113814
HEIGHT
81662
22-Mar-2023
10:16
nieka
carson



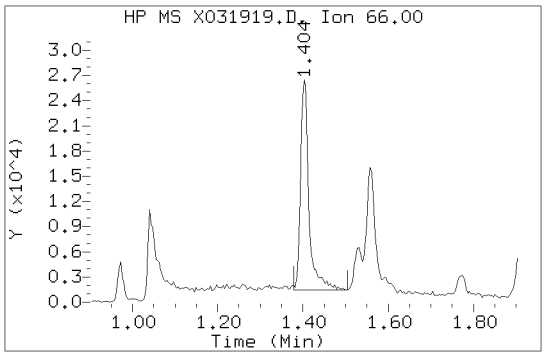
BEFORE

MASS
66
AREA
35132
HEIGHT
24984
22-Mar-2023
10:11
nieka
carson



AFTER

MASS
66
AREA
35132
HEIGHT
24984
22-Mar-2023
10:16
nieka
carson

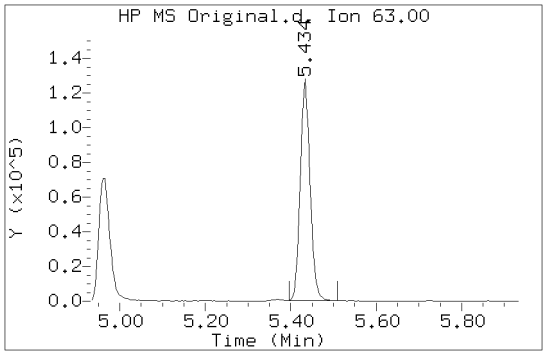


1,2-Dichloropropane (78-87-5)

Reason Code:

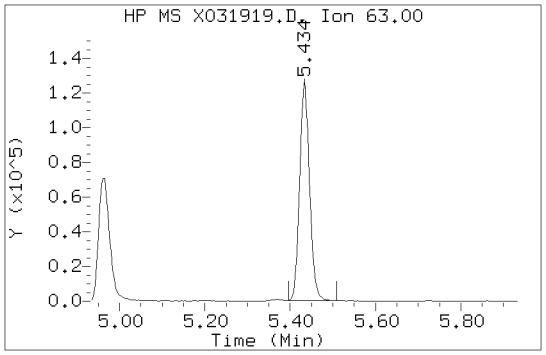
BEFORE

MASS
63
AREA
208549
HEIGHT
127740
22-Mar-2023
10:11
nieka
carson



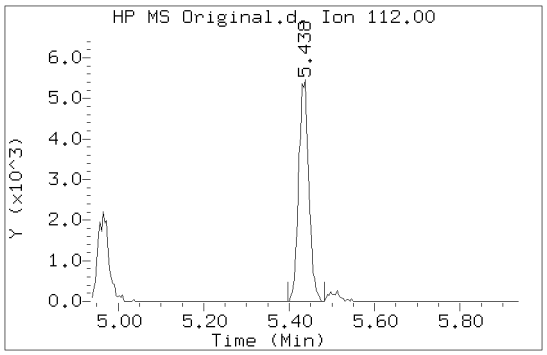
AFTER

MASS
63
AREA
208549
HEIGHT
127740
22-Mar-2023
10:16
nieka
carson



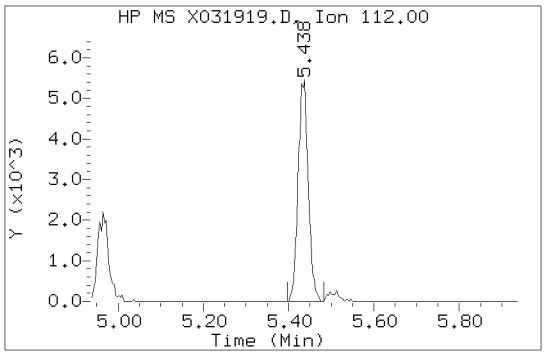
BEFORE

MASS
112
AREA
9214
HEIGHT
5461
22-Mar-2023
10:11
nieka
carson



AFTER

MASS
112
AREA
9214
HEIGHT
5461
22-Mar-2023
10:16
nieka
carson



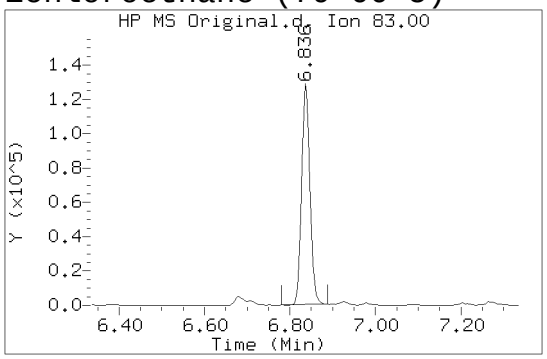
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031919.D
Inj Date : 19-MAR-2023 18:36
InstruID : voa6.i
LabSampID : CCV-END

1,1,2-Trichloroethane (79-00-5)

Reason Code:

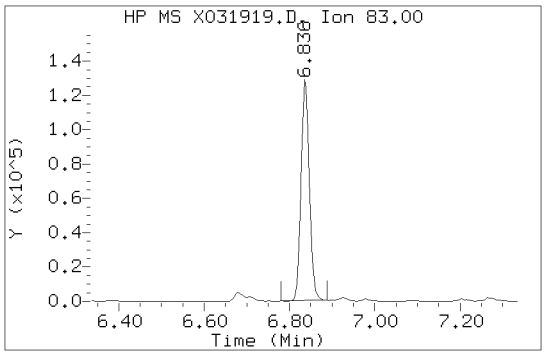
BEFORE

MASS
83
AREA
179023
HEIGHT
128797
22-Mar-2023
10:11
nieka
carson



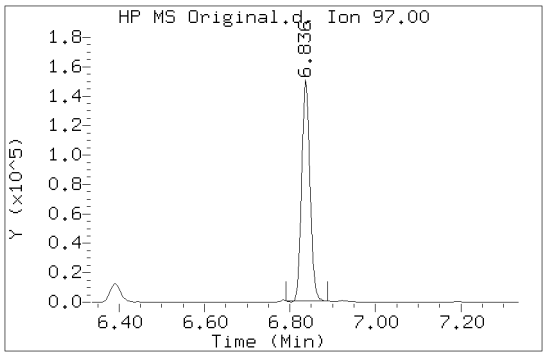
AFTER

MASS
83
AREA
179023
HEIGHT
128797
22-Mar-2023
10:16
nieka
carson



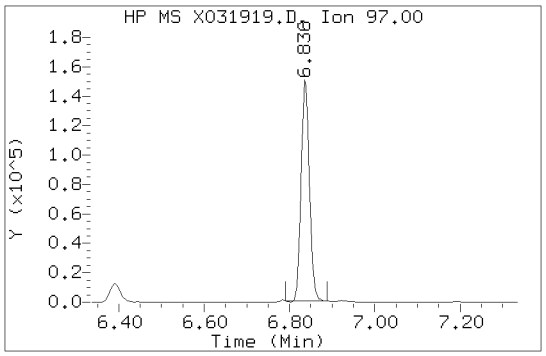
BEFORE

MASS
97
AREA
208599
HEIGHT
150236
22-Mar-2023
10:11
nieka
carson



AFTER

MASS
97
AREA
208599
HEIGHT
150236
22-Mar-2023
10:16
nieka
carson

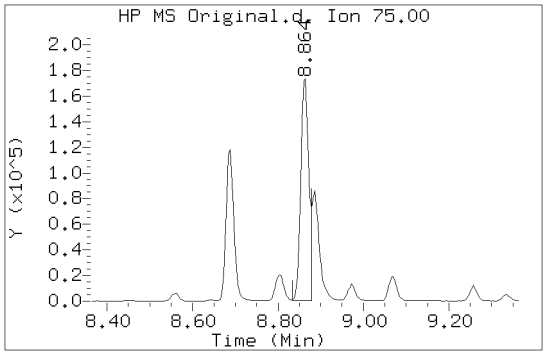


1,2,3-Trichloropropane (96-18-4)

Reason Code:

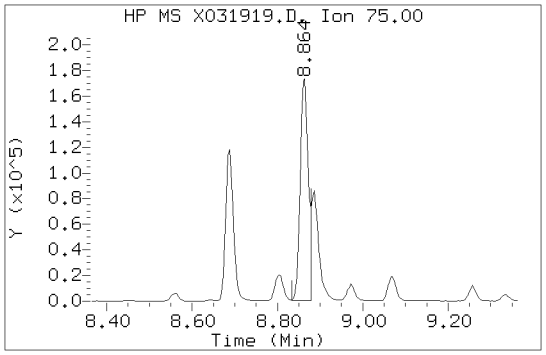
BEFORE

MASS
75
AREA
238631
HEIGHT
173061
22-Mar-2023
10:11
nieka
carson



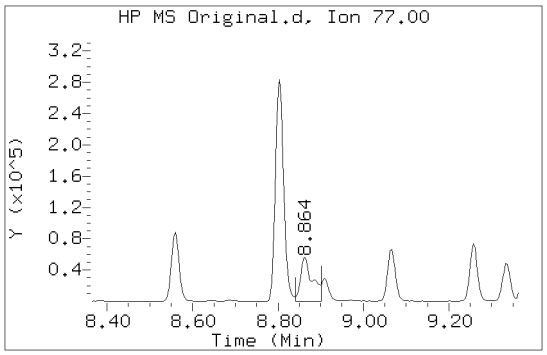
AFTER

MASS
75
AREA
238631
HEIGHT
173061
22-Mar-2023
10:16
nieka
carson



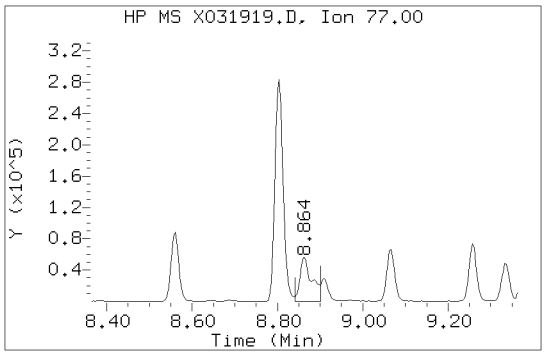
BEFORE

MASS
77
AREA
112722
HEIGHT
55725
22-Mar-2023
10:11
nieka
carson



AFTER

MASS
77
AREA
112722
HEIGHT
55725
22-Mar-2023
10:16
nieka
carson



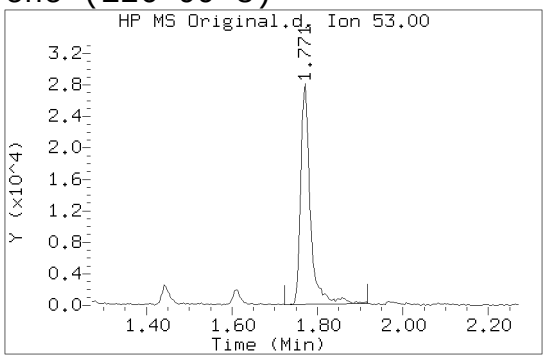
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031919.D
Inj Date : 19-MAR-2023 18:36
InstruID : voa6.i
LabSampID : CCV-END

Chloroprene (126-99-8)

Reason Code:

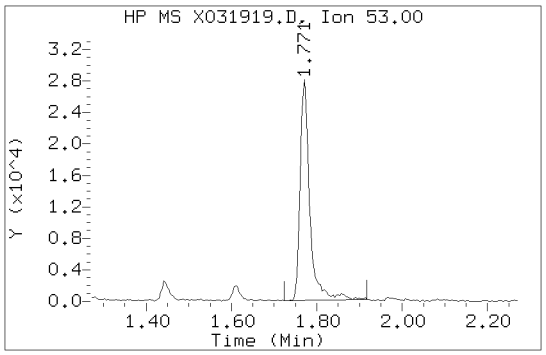
BEFORE

MASS
53
AREA
45122
HEIGHT
28019
22-Mar-2023
10:11
nieka
carson



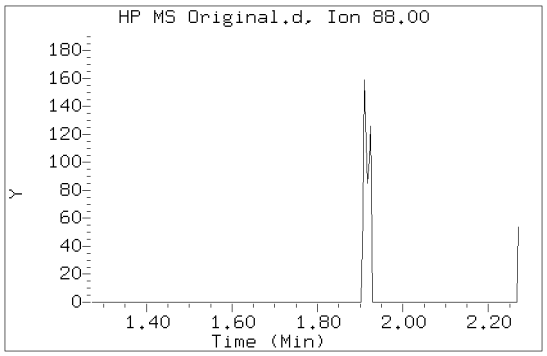
AFTER

MASS
53
AREA
45122
HEIGHT
28019
22-Mar-2023
10:16
nieka
carson



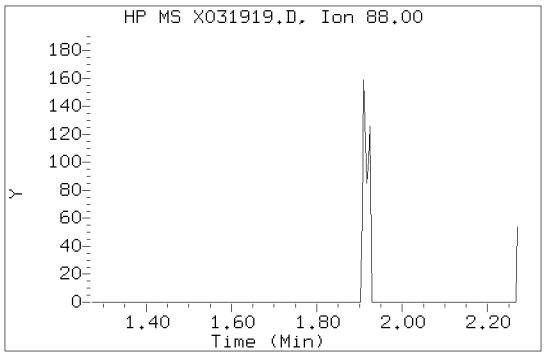
BEFORE

MASS
88
AREA
0
HEIGHT
0
22-Mar-2023
10:11
nieka
carson



AFTER

MASS
88
AREA
0
HEIGHT
0
22-Mar-2023
10:16
nieka
carson

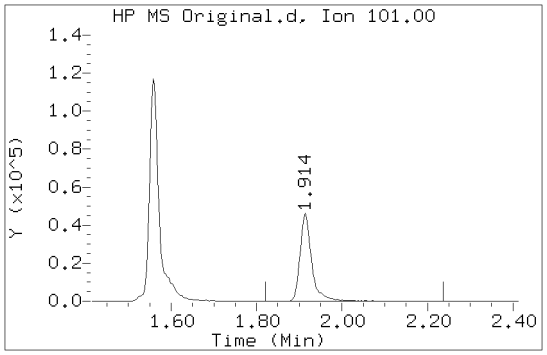


Freon TF (76-13-1)

Reason Code:

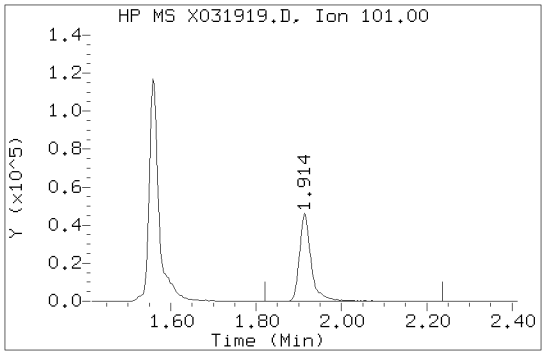
BEFORE

MASS
101
AREA
89261
HEIGHT
46248
22-Mar-2023
10:11
nieka
carson



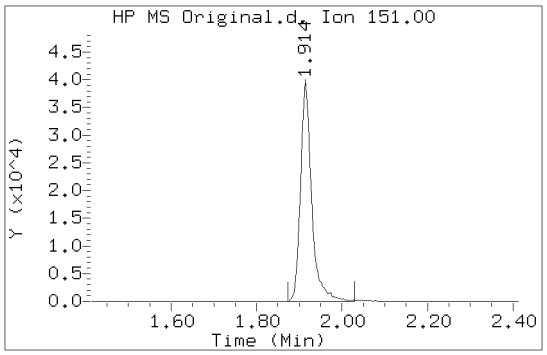
AFTER

MASS
101
AREA
89261
HEIGHT
46248
22-Mar-2023
10:16
nieka
carson



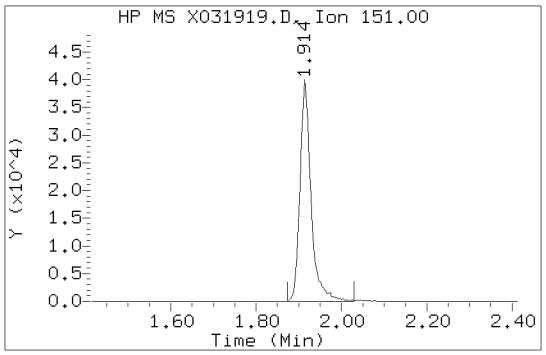
BEFORE

MASS
151
AREA
73769
HEIGHT
40008
22-Mar-2023
10:11
nieka
carson



AFTER

MASS
151
AREA
73769
HEIGHT
40008
22-Mar-2023
10:16
nieka
carson



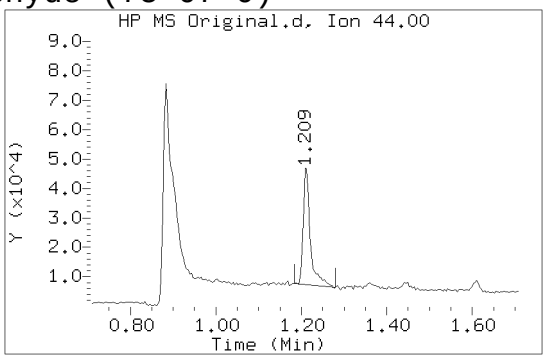
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230319.b\X031919.D
Inj Date : 19-MAR-2023 18:36
InstruID : voa6.i
LabSampID : CCV-END

Acetaldehyde (75-07-0)

Reason Code:

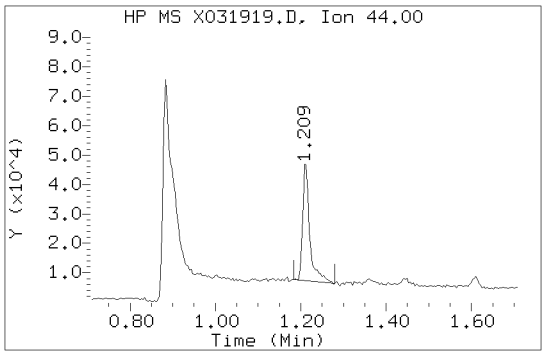
BEFORE

MASS
44
AREA
47164
HEIGHT
39433
22-Mar-2023
10:11
nieka
carson



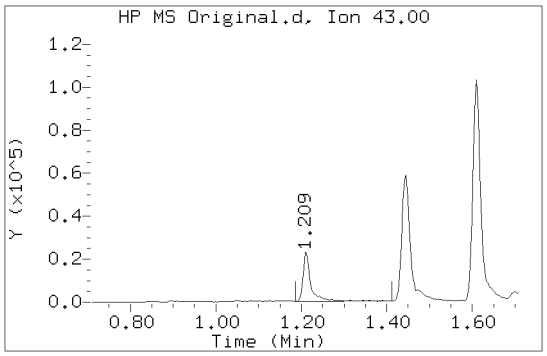
AFTER

MASS
44
AREA
47164
HEIGHT
39433
22-Mar-2023
10:16
nieka
carson



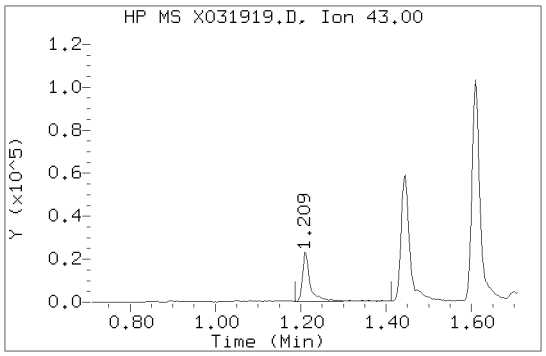
BEFORE

MASS
43
AREA
30599
HEIGHT
22950
22-Mar-2023
10:11
nieka
carson



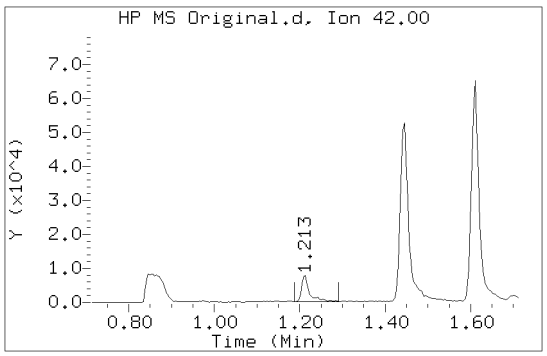
AFTER

MASS
43
AREA
30599
HEIGHT
22950
22-Mar-2023
10:16
nieka
carson



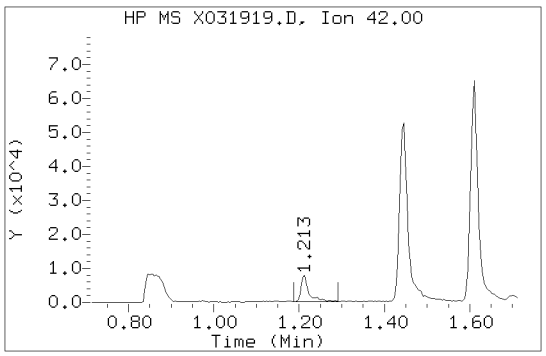
BEFORE

MASS
42
AREA
10229
HEIGHT
7647
22-Mar-2023
10:11
nieka
carson



AFTER

MASS
42
AREA
10229
HEIGHT
7647
22-Mar-2023
10:16
nieka
carson



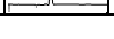
HS23030818 9056_W IC

ALS WO# HS23030818

Sequence: 032023
Last Update Operator: alshs.nouser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	STD1		Calibratio	RA1	1.00	1	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD2		Calibratio	RA2	1.00	2	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD3		Calibratio	RA3	1.00	3	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD4		Calibratio	RA4	1.00	4	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD5		Calibratio	RA5	1.00	5	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD6		Calibratio	RA6	1.00	6	Anions Program ISO37mM 150mm short 0.4 Constant current
	ICV		Unknown	RA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	ICB		Unknown	RA8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK	430426	Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS		Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23030537-01		Unknown	RA1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23030537-01MS		Unknown	RA2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23030537-01MSD		Unknown	RA3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23030818-01DF10		Unknown	RB1	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 032023
Last Update Operator: alshs.nouser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		STD1	5.0	Finished	3/19/2023 10:13:42 AM -05:00
Anions Processing Method ISO		STD2	5.0	Finished	3/19/2023 10:19:29 AM -05:00
Anions Processing Method ISO		STD3	5.0	Finished	3/19/2023 10:25:17 AM -05:00
Anions Processing Method ISO		STD4	5.0	Finished	3/19/2023 10:31:04 AM -05:00
Anions Processing Method ISO		STD5	5.0	Finished	3/19/2023 10:36:51 AM -05:00
Anions Processing Method ISO		STD6	5.0	Finished	3/19/2023 10:42:39 AM -05:00
Anions Processing Method ISO		ICV	5.0	Finished	3/19/2023 10:48:26 AM -05:00
Anions Processing Method ISO		ICB	5.0	Finished	3/19/2023 11:11:35 AM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	3/20/2023 9:17:26 AM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	3/20/2023 9:23:14 AM -05:00
Anions Processing Method ISO		MBLK	5.0	Finished	3/20/2023 9:34:48 AM -05:00
Anions Processing Method ISO		LCS	5.0	Finished	3/20/2023 9:40:36 AM -05:00
Anions Processing Method ISO		HS23030537-01	5.0	Finished	3/20/2023 9:46:34 AM -05:00
Anions Processing Method ISO		HS23030537-01MS	5.0	Finished	3/20/2023 9:52:22 AM -05:00
Anions Processing Method ISO		HS23030537-01MSD	5.0	Finished	3/20/2023 9:58:09 AM -05:00
Anions Processing Method ISO		CCV1	5.0	Finished	3/20/2023 10:38:42 AM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	3/20/2023 10:44:29 AM -05:00
Anions Processing Method ISO		HS23030818-01DF10	5.0	Finished	3/20/2023 10:56:04 AM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	3/20/2023 11:59:46 AM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	3/20/2023 12:11:20 PM -05:00

Sequence: 032023
Injection #6: STD6

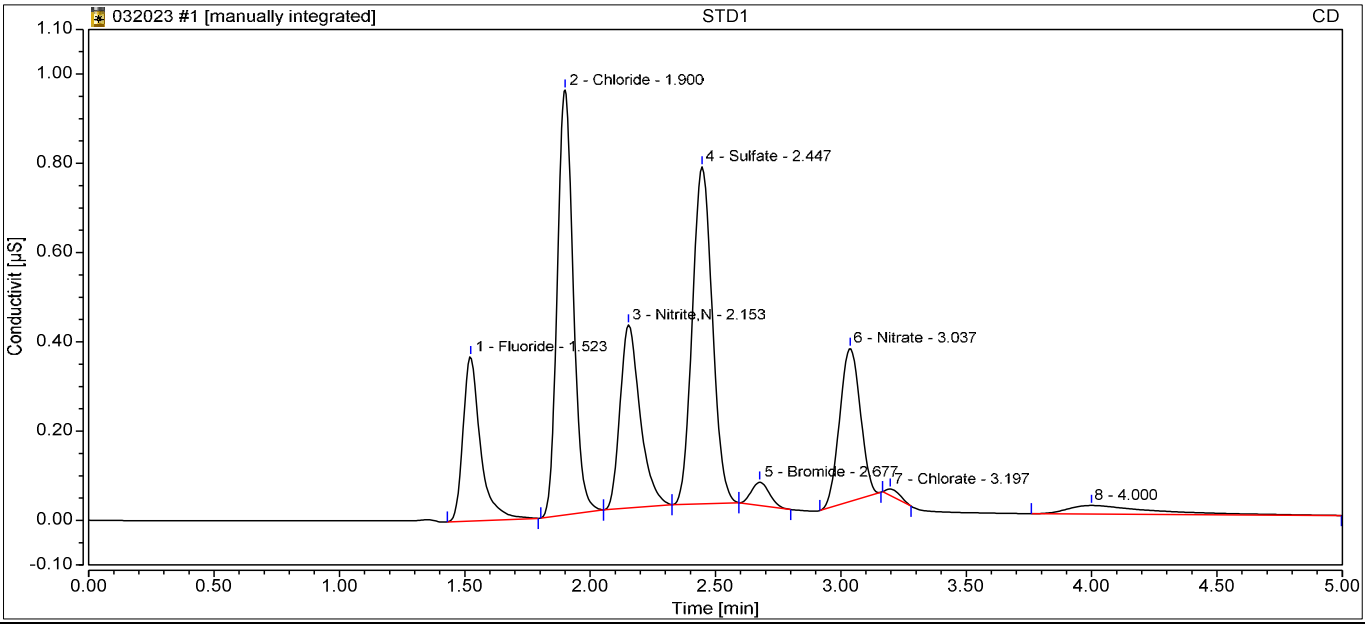
Calibration

Peak No.	Peak Name	Cal.Type	Eval.Type	Number of Points	Rel.Std.Dev. %	Coeff.of Determination	C0 (Offset)	C1 (Slope)	C2 (Curve)
1	***Fluoride***	***Lin, WithOffset, 1/A***	***Area***	***6***	***19.3947***	***0.99774***	***0.0075***	***0.2486***	***0.0000***
2	Chloride	Lin, WithOffset, 1/A	Area	6	4.9834	0.99988	-0.0176	0.1665	0.0000
3	Nitrite,N	Quad, WithOffset, 1/A	Area	6	7.4433	0.99971	0.0021	0.3589	-0.0048
4	Sulfate	Lin, WithOffset, 1/A	Area	6	5.7464	0.99981	0.0113	0.1162	0.0000
5	Bromide	Lin, WithOffset, 1/A	Area	6	4.7775	0.99990	-0.0022	0.0612	0.0000
6	Nitrate	Lin, WithOffset, 1/A	Area	6	6.2964	0.99979	-0.0007	0.3417	0.0000
7	Chlorate	Quad, WithOffset, 1/A	Area	6	8.6756	0.99960	-0.0013	0.0221	-0.0006
8	Phosphate	Lin, WithOffset, 1/A	Area	1	n.a.	n.a.	n.a.	n.a.	n.a.
Maximum					**19.3947**	0.99990			
Minimum					4.7775	**0.99774**			

1 STD1

Sample Name:	**STD1**	*Injection Volume:*	**5.00**
Vial Number:	**RA1**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/19/2023 10:13**	*Sample Weight:*	**1.0000**

Run Time:



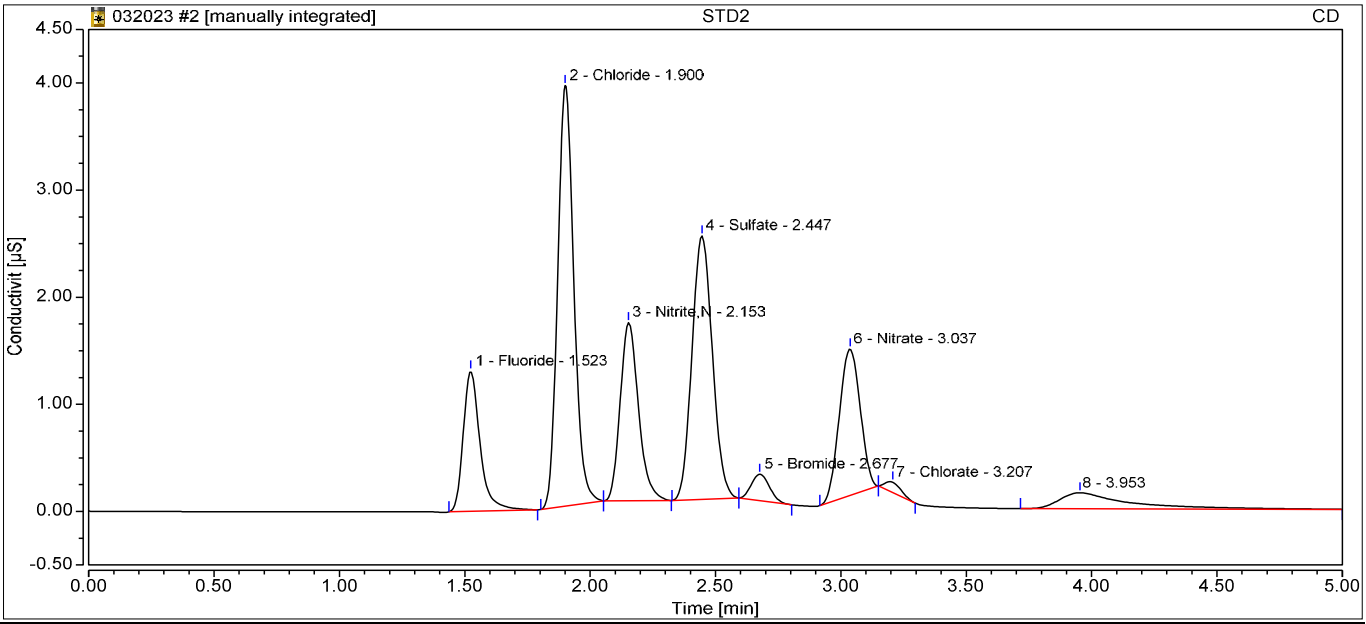
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB*	0.030	0.0895	0.0895	1.0000
2	1.90	Chloride	BMB	0.070	0.5271	0.5271	1.0000
3	2.15	Nitrite,N	BMB	0.038	0.1003	0.1003	1.0000
4	2.45	Sulfate	BMB	0.070	0.5043	0.5043	1.0000
5	2.68	Bromide	BMB	0.004	0.1069	0.1069	1.0000
6	3.04	Nitrate	BMB	0.033	0.0982	0.0982	1.0000
7	3.20	Chlorate	BMB*	0.001	0.1053	0.1053	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.246**		**1.53**	

2 STD2

Sample Name:	**STD2**	*Injection Volume:*	**5.00**
Vial Number:	**RA2**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/19/2023 10:19**	*Sample Weight:*	**1.0000**

Run Time:

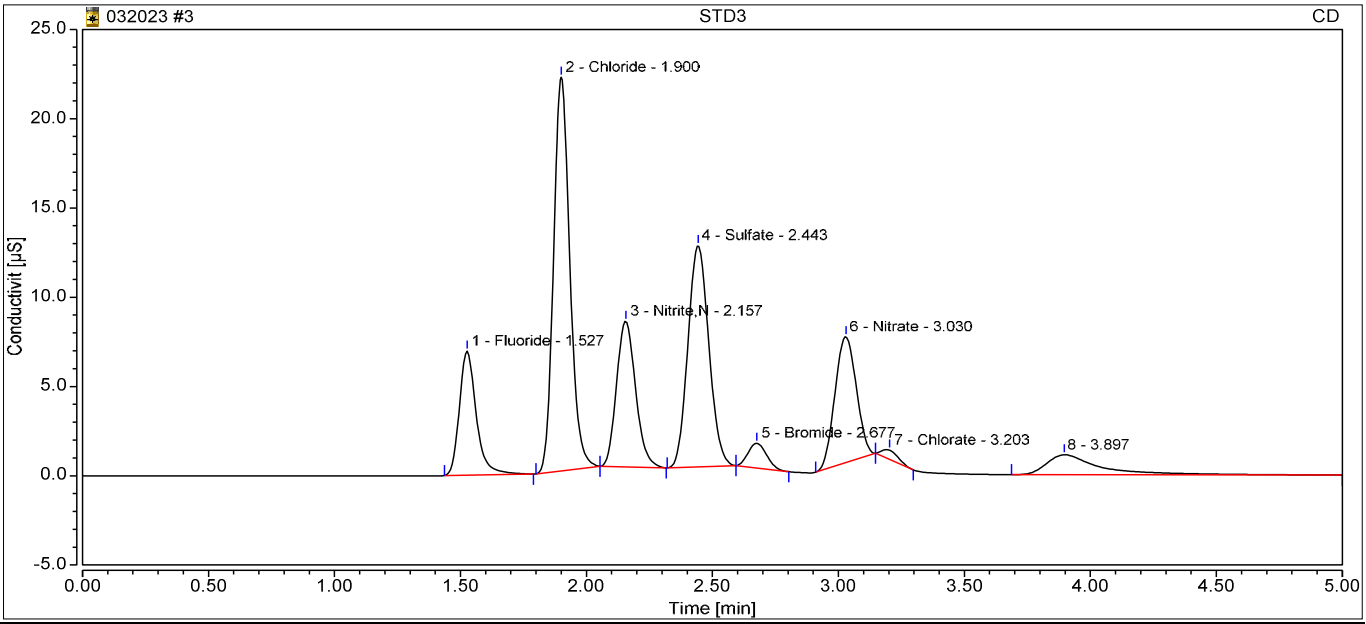


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB*	0.102	0.3811	0.3811	1.0000
2	1.90	Chloride	BMB	0.292	1.8613	1.8613	1.0000
3	2.15	Nitrite,N	BMB	0.141	0.3879	0.3879	1.0000
4	2.45	Sulfate	BMB	0.232	1.9023	1.9023	1.0000
5	2.68	Bromide	BMB	0.021	0.3749	0.3749	1.0000
6	3.04	Nitrate	BMB	0.133	0.3898	0.3898	1.0000
7	3.21	Chlorate	BMB	0.007	0.3834	0.3834	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.928**		**5.68**	

3 STD3			
Sample Name:	**STD3**	*Injection Volume:*	**5.00**
Vial Number:	**RA3**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/19/2023 10:25**	*Sample Weight:*	**1.0000**

Run Time:



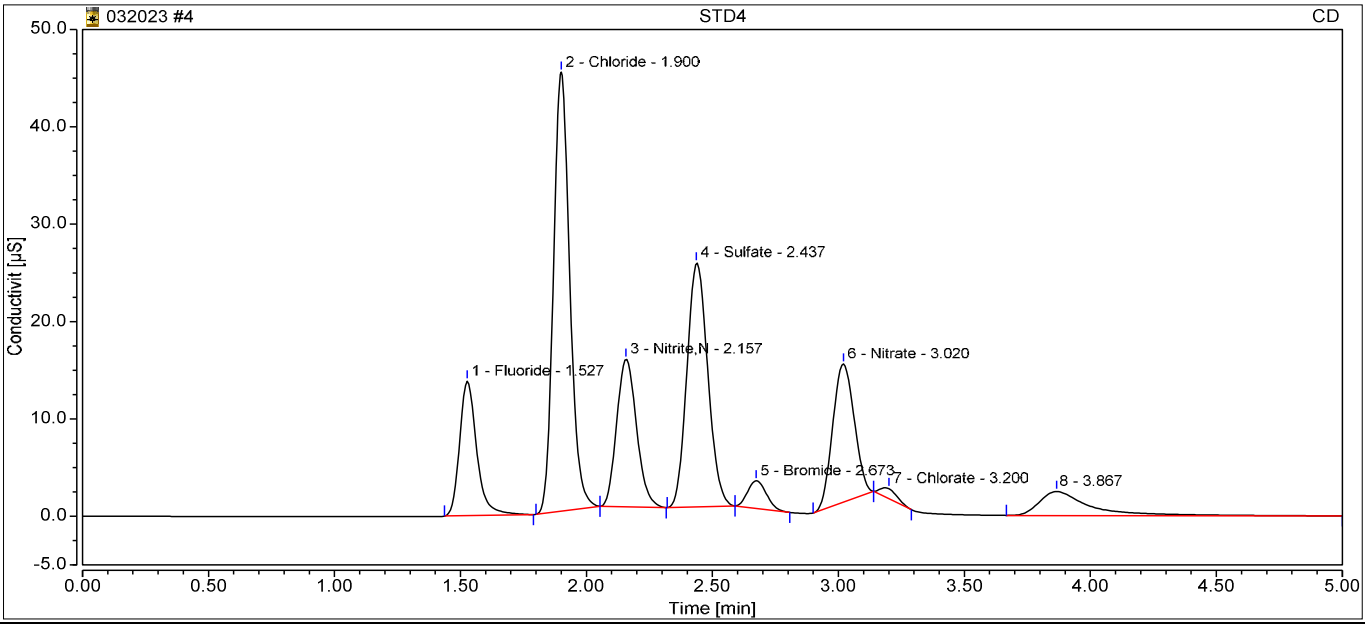
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.542	2.1500	2.1500	1.0000
2	1.90	Chloride	BMB	1.646	9.9922	9.9922	1.0000
3	2.16	Nitrite,N	BMB	0.717	2.0466	2.0466	1.0000
4	2.44	Sulfate	BMB	1.191	10.1520	10.1520	1.0000
5	2.68	Bromide	BMB	0.118	1.9686	1.9686	1.0000
6	3.03	Nitrate	BMB	0.695	2.0343	2.0343	1.0000
7	3.20	Chlorate	BMB	0.039	1.9258	1.9258	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**4.947**		**30.27**	

4 STD4

Sample Name:	**STD4**	*Injection Volume:*	**5.00**
Vial Number:	**RA4**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/19/2023 10:31**	*Sample Weight:*	**1.0000**

Run Time:

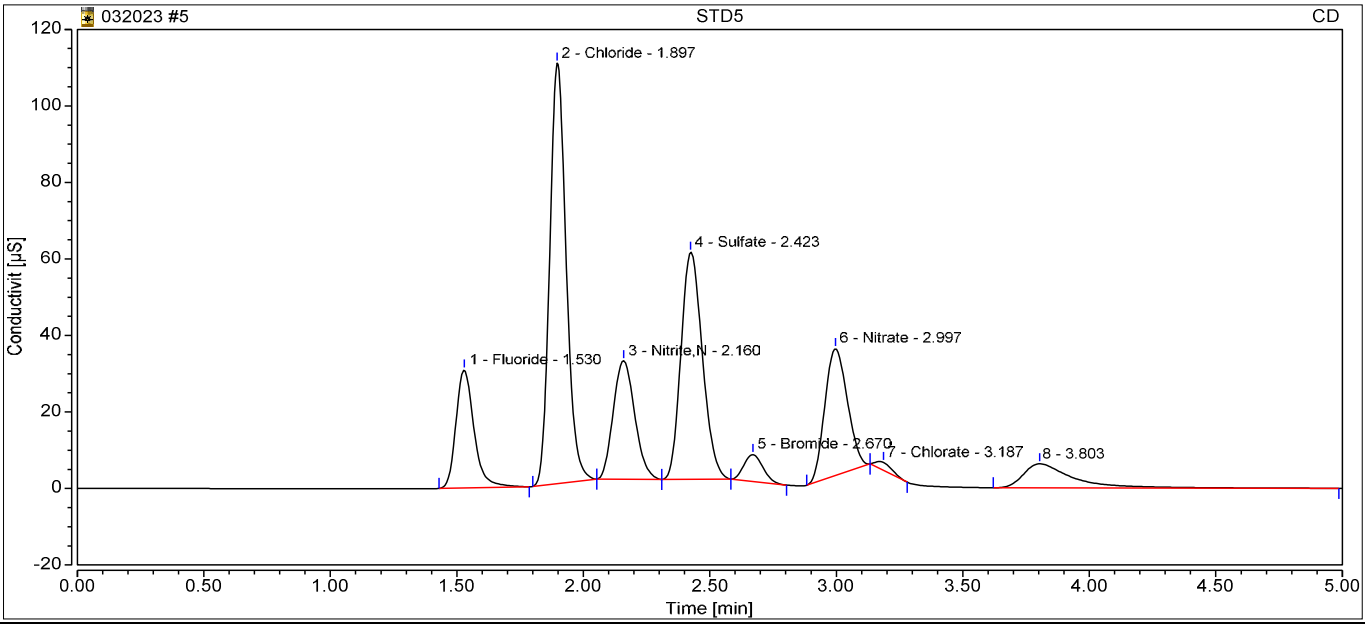


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	1.090	4.3548	4.3548	1.0000
2	1.90	Chloride	BMB	3.380	20.4101	20.4101	1.0000
3	2.16	Nitrite,N	BMB	1.390	4.0882	4.0882	1.0000
4	2.44	Sulfate	BMB	2.408	20.6257	20.6257	1.0000
5	2.67	Bromide	BMB	0.246	4.0453	4.0453	1.0000
6	3.02	Nitrate	BMB	1.411	4.1314	4.1314	1.0000
7	3.20	Chlorate	BMB	0.078	4.1090	4.1090	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**10.003**		**61.76**	

5 STD5			
Sample Name:	**STD5**	*Injection Volume:*	**5.00**
Vial Number:	**RA5**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/19/2023 10:36**	*Sample Weight:*	**1.0000**

Run Time:



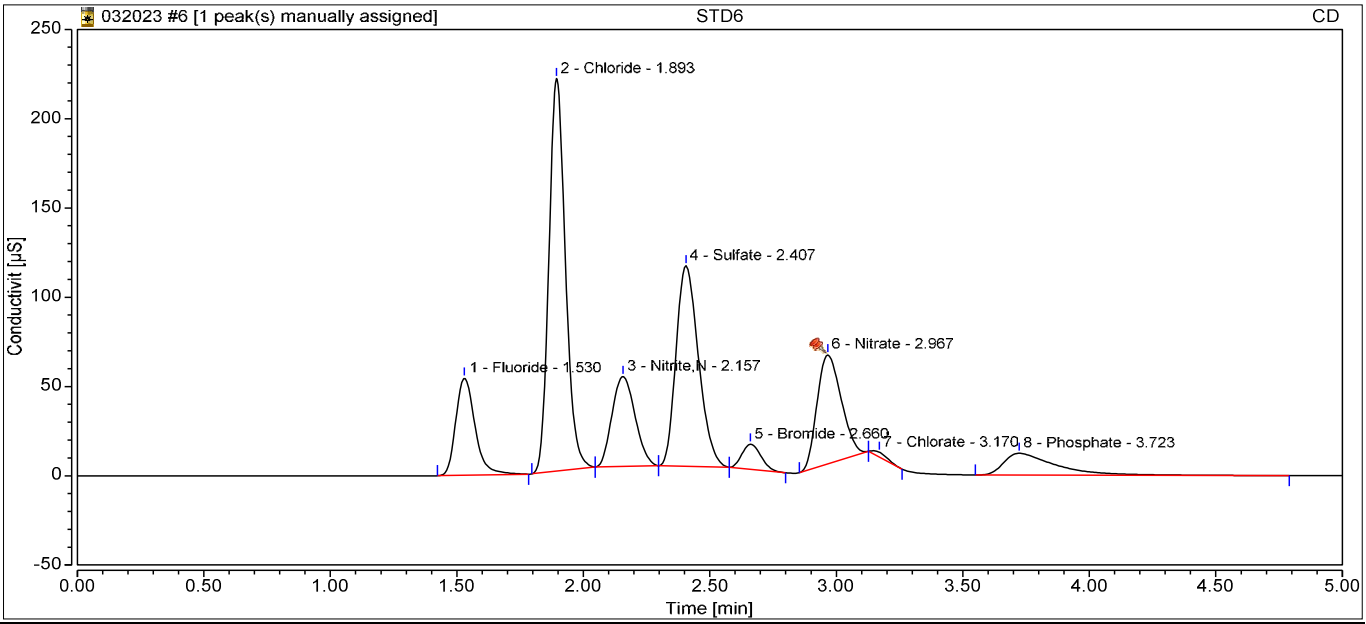
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	2.554	10.2452	10.2452	1.0000
2	1.90	Chloride	BMB	8.278	49.8363	49.8363	1.0000
3	2.16	Nitrite,N	BMB	3.051	9.7528	9.7528	1.0000
4	2.42	Sulfate	BMB	5.826	50.0534	50.0534	1.0000
5	2.67	Bromide	BMB	0.607	9.9510	9.9510	1.0000
6	3.00	Nitrate	BMB	3.428	10.0324	10.0324	1.0000
7	3.19	Chlorate	BMB	0.155	10.0158	10.0158	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**23.899**		**149.89**	

6 STD6

Sample Name:	**STD6**	*Injection Volume:*	**5.00**
Vial Number:	**RA6**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/19/2023 10:42**	*Sample Weight:*	**1.0000**

Run Time:



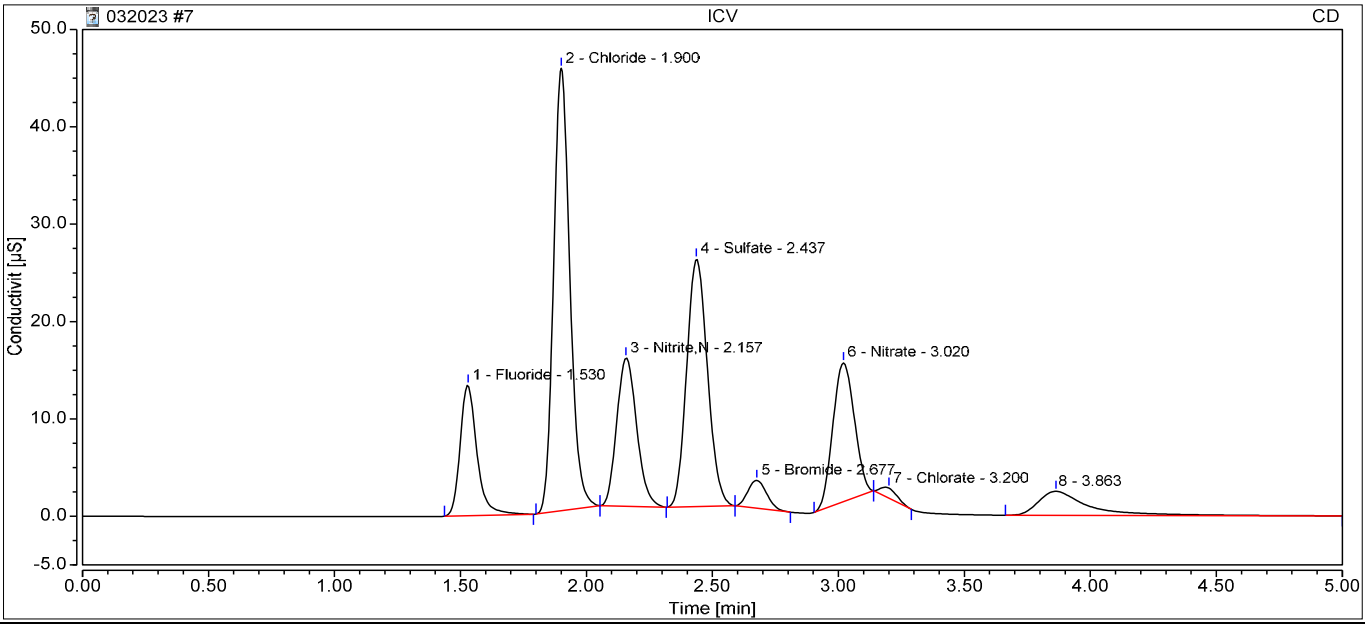
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	4.800	19.2794	19.2794	1.0000
2	1.89	Chloride	BMB	16.606	99.8730	99.8730	1.0000
3	2.16	Nitrite,N	BMB	5.305	20.1523	20.1523	1.0000
4	2.41	Sulfate	BMB	11.543	99.2623	99.2623	1.0000
5	2.66	Bromide	BMB	1.226	20.0532	20.0532	1.0000
6	2.97	Nitrate	BMB^	6.771	19.8140	19.8140	1.0000
7	3.17	Chlorate	BMB	0.182	20.0763	20.0763	1.0000
8	3.72	Phosphate	BMB	2.894	n.a.	n.a.	1.0000
Total:			**0.000**	**49.327**		**298.51**	

7 ICV

Sample Name:	**ICV**	*Injection Volume:*	**5.00**
Vial Number:	**RA7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/19/2023 10:48**	*Sample Weight:*	**1.0000**

Run Time:



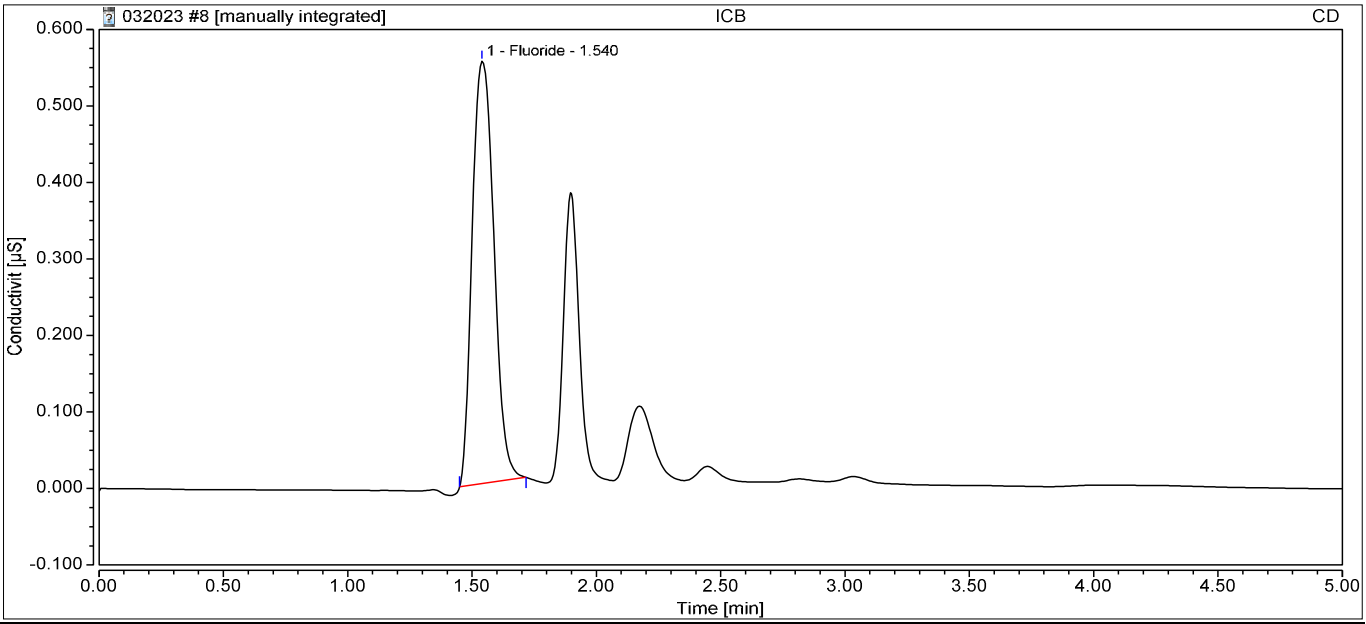
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	1.040	4.1532	4.1532	1.0000
2	1.90	Chloride	BMB	3.403	20.5507	20.5507	1.0000
3	2.16	Nitrite,N	BMB	1.398	4.1130	4.1130	1.0000
4	2.44	Sulfate	BMB	2.432	20.8355	20.8355	1.0000
5	2.68	Bromide	BMB	0.249	4.0943	4.0943	1.0000
6	3.02	Nitrate	BMB	1.414	4.1391	4.1391	1.0000
7	3.20	Chlorate	BMB	0.078	4.1039	4.1039	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**10.014**		**61.99**	

8 ICB

Sample Name:	**ICB**	*Injection Volume:*	**5.00**
Vial Number:	**RA8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/19/2023 11:11**	*Sample Weight:*	**1.0000**

Run Time:

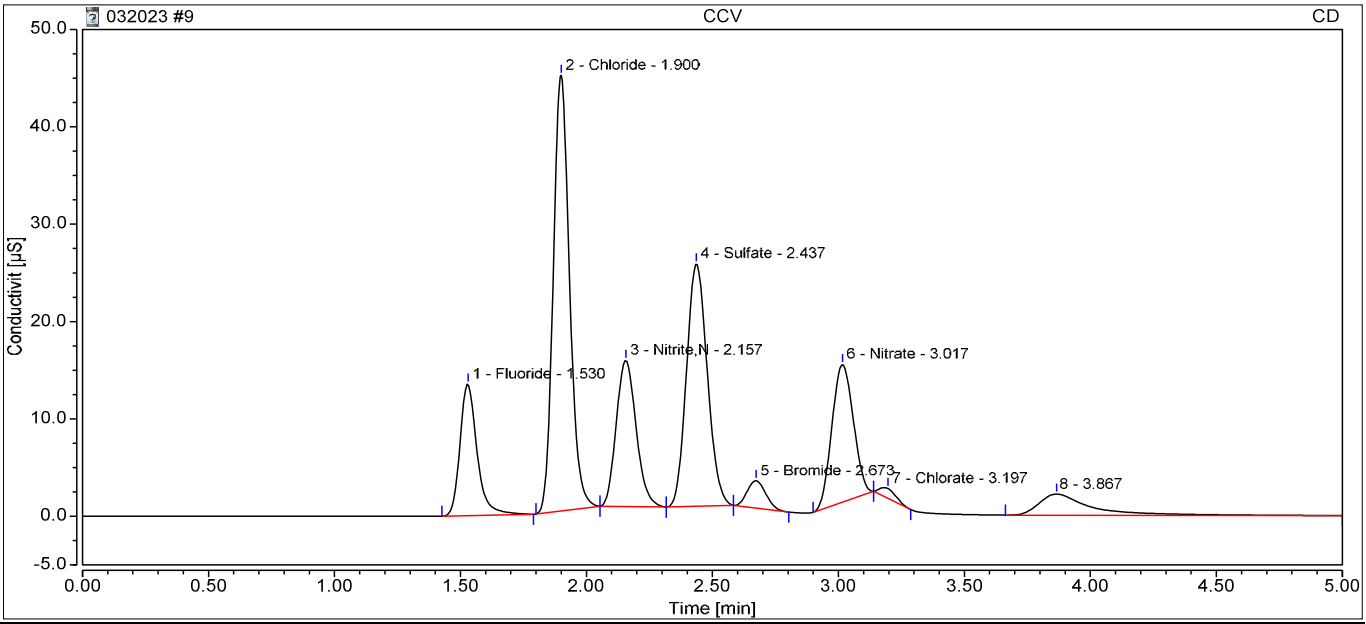


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.54	Fluoride	BMB*	0.056	0.1947	0.1947	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.056**		**0.19**	

9	*CCV*		
Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/20/2023 09:17**	*Sample Weight:*	**1.0000**

Run Time:



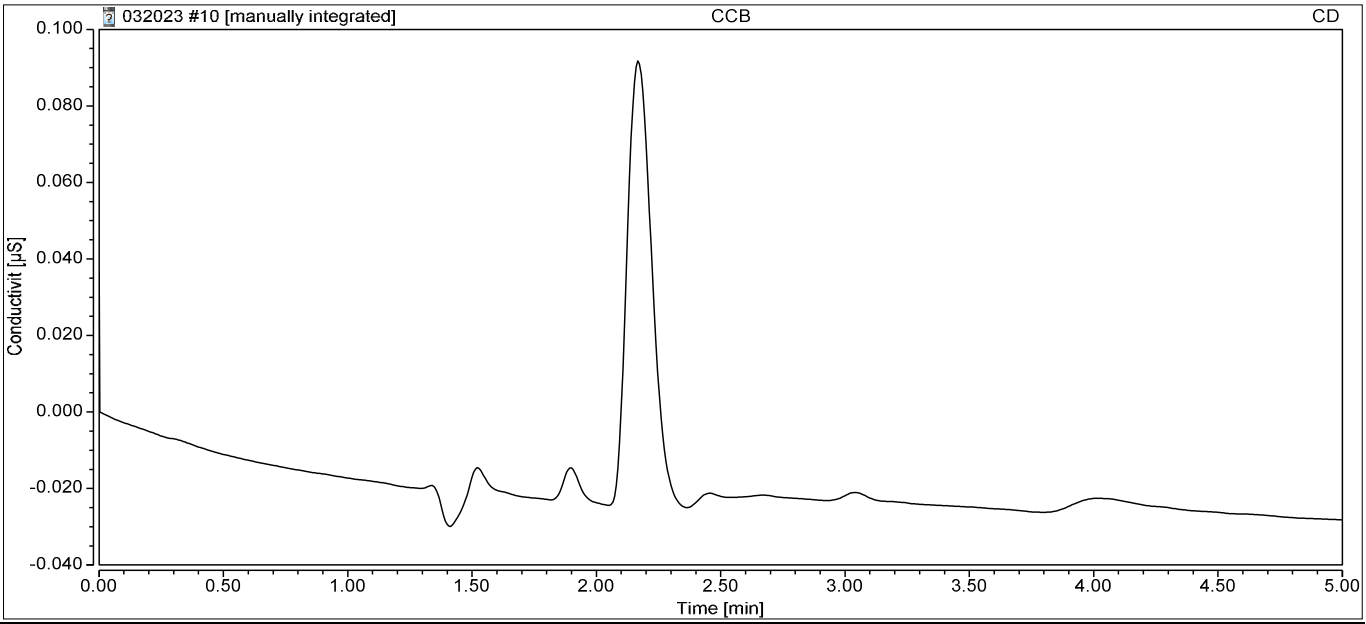
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	1.066	4.2565	4.2565	1.0000
2	1.90	Chloride	BMB	3.339	20.1676	20.1676	1.0000
3	2.16	Nitrite,N	BMB	1.373	4.0354	4.0354	1.0000
4	2.44	Sulfate	BMB	2.384	20.4191	20.4191	1.0000
5	2.67	Bromide	BMB	0.242	3.9872	3.9872	1.0000
6	3.02	Nitrate	BMB	1.398	4.0917	4.0917	1.0000
7	3.20	Chlorate	BMB	0.074	3.8363	3.8363	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.875**		**60.79**	

10 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/20/2023 09:23**	*Sample Weight:*	**1.0000**

Run Time:



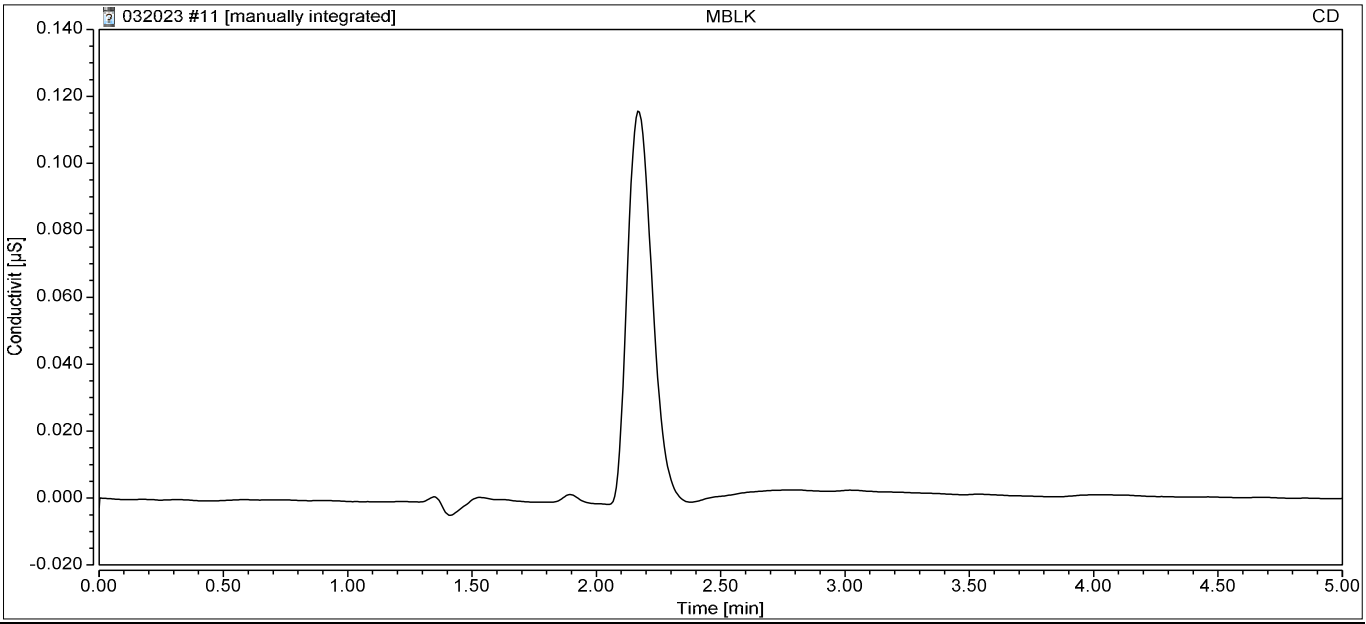
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

11 MBLK

Sample Name:	**MBLK**	*Injection Volume:*	**5.00**
Vial Number:	**R5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/20/2023 09:34**	*Sample Weight:*	**1.0000**

Run Time:



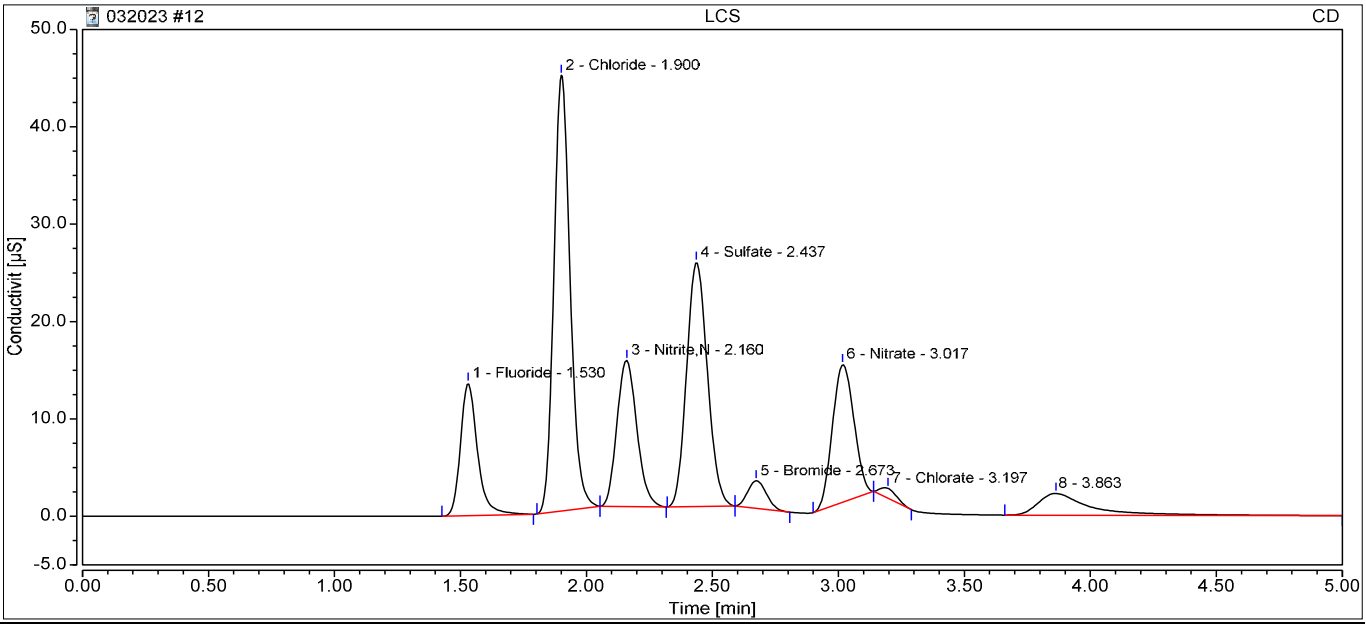
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

12 LCS

Sample Name:	**LCS**	*Injection Volume:*	**5.00**
Vial Number:	**R2**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/20/2023 09:40**	*Sample Weight:*	**1.0000**

Run Time:



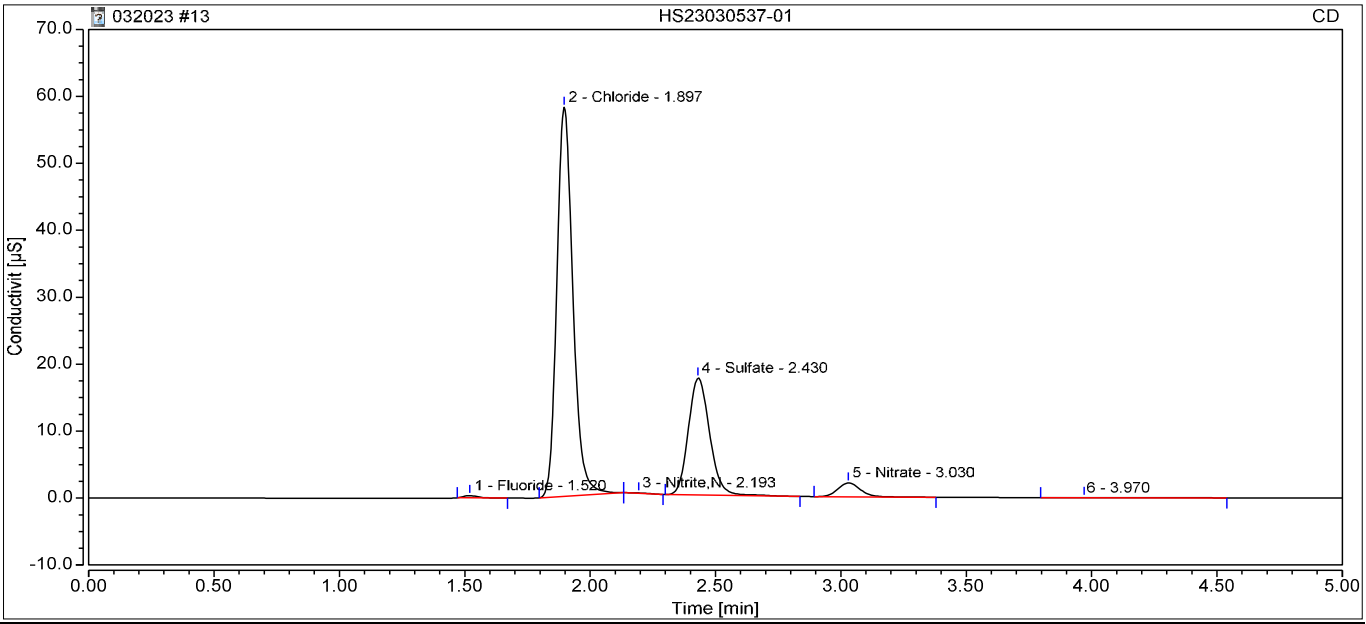
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	1.069	4.2714	4.2714	1.0000
2	1.90	Chloride	BMB	3.347	20.2143	20.2143	1.0000
3	2.16	Nitrite,N	BMB	1.375	4.0414	4.0414	1.0000
4	2.44	Sulfate	BMB	2.398	20.5422	20.5422	1.0000
5	2.67	Bromide	BMB	0.244	4.0204	4.0204	1.0000
6	3.02	Nitrate	BMB	1.398	4.0914	4.0914	1.0000
7	3.20	Chlorate	BMB	0.076	3.9731	3.9731	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.907**		**61.15**	

13 HS23030537-01

Sample Name:	**HS23030537-01**	*Injection Volume:*	**5.00**
Vial Number:	**RA1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/20/2023 09:46**	*Sample Weight:*	**1.0000**

Run Time:



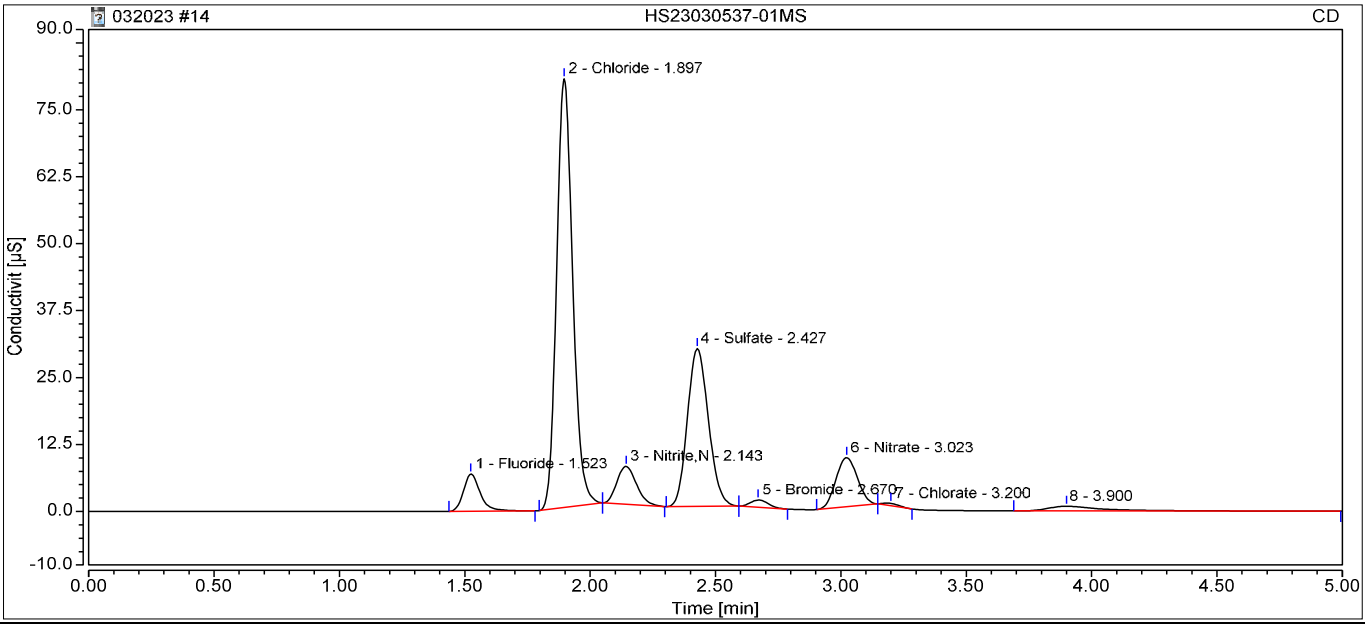
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	0.022	0.0580	0.0580	1.0000
2	1.90	Chloride	BMB	4.317	26.0426	26.0426	1.0000
3	2.19	Nitrite,N	BMB	0.005	0.0086	0.0086	1.0000
4	2.43	Sulfate	BMB	1.723	14.7367	14.7367	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
5	3.03	Nitrate	BMB	0.215	0.6312	0.6312	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**6.283**		**41.48**	

14 HS23030537-01MS

Sample Name:	**HS23030537-01MS**	*Injection Volume:*	**5.00**
Vial Number:	**RA2**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/20/2023 09:52**	*Sample Weight:*	**1.0000**

Run Time:

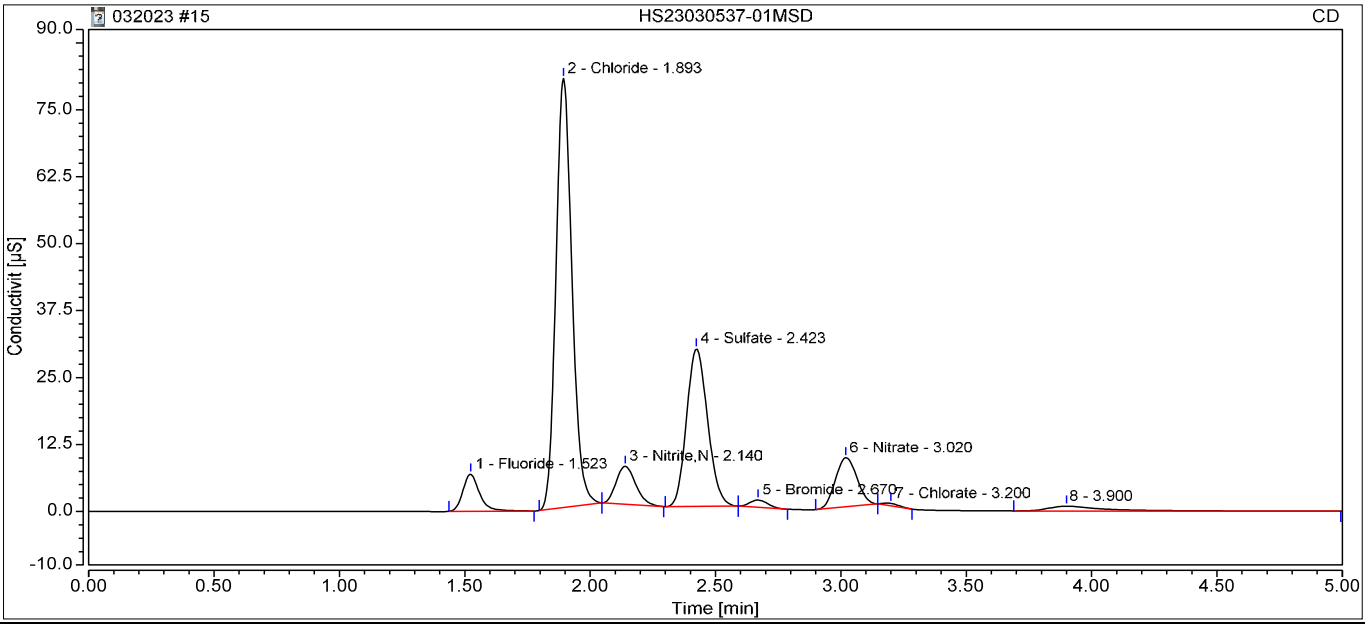


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	0.541	2.1467	2.1467	1.0000
2	1.90	Chloride	BMB	5.944	35.8163	35.8163	1.0000
3	2.14	Nitrite,N	BMB	0.645	1.8368	1.8368	1.0000
4	2.43	Sulfate	BMB	2.867	24.5800	24.5800	1.0000
5	2.67	Bromide	BMB	0.112	1.8711	1.8711	1.0000
6	3.02	Nitrate	BMB	0.909	2.6611	2.6611	1.0000
7	3.20	Chlorate	BMB	0.031	1.5424	1.5424	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**11.050**		**70.45**	

15 HS23030537-01MSD			
Sample Name:	**HS23030537-01MSD**	*Injection Volume:*	**5.00**
Vial Number:	**RA3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/20/2023 09:58**	*Sample Weight:*	**1.0000**

Run Time:

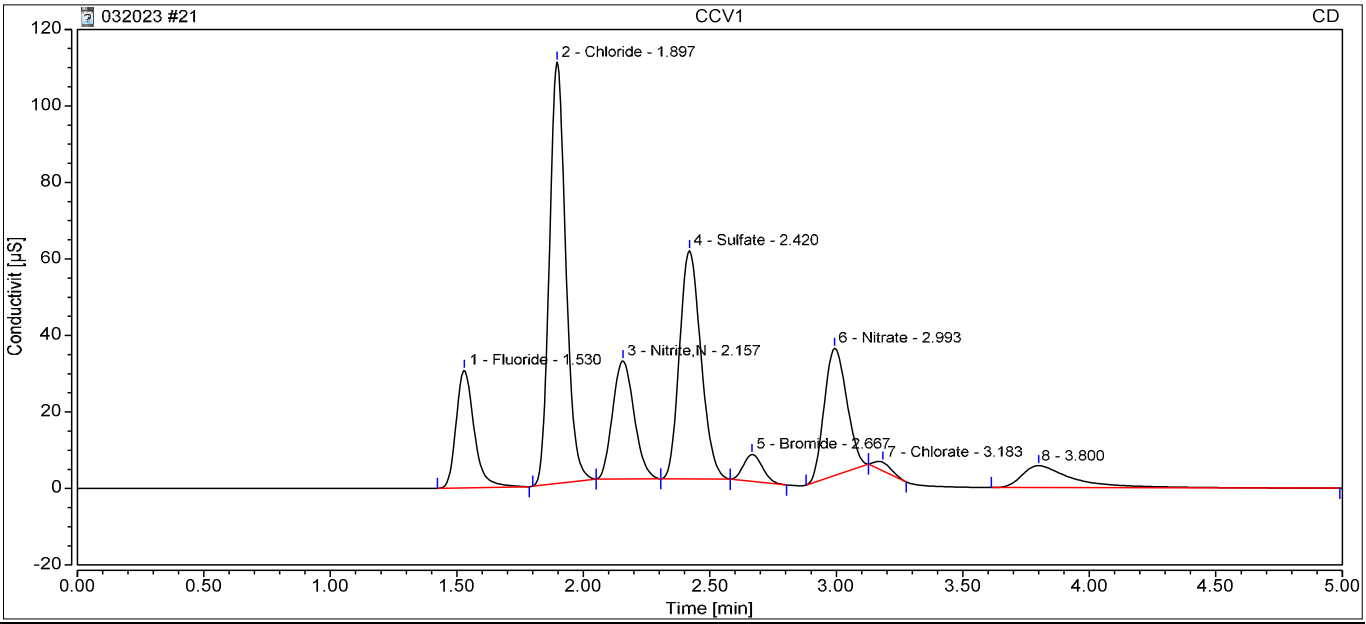


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	0.534	2.1192	2.1192	1.0000
2	1.89	Chloride	BMB	5.946	35.8299	35.8299	1.0000
3	2.14	Nitrite,N	BMB	0.646	1.8378	1.8378	1.0000
4	2.42	Sulfate	BMB	2.870	24.6027	24.6027	1.0000
5	2.67	Bromide	BMB	0.113	1.8822	1.8822	1.0000
6	3.02	Nitrate	BMB	0.910	2.6641	2.6641	1.0000
7	3.20	Chlorate	BMB	0.030	1.5019	1.5019	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**11.049**		**70.44**	

21 CCV1			
Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/20/2023 10:38**	*Sample Weight:*	**1.0000**

Run Time:



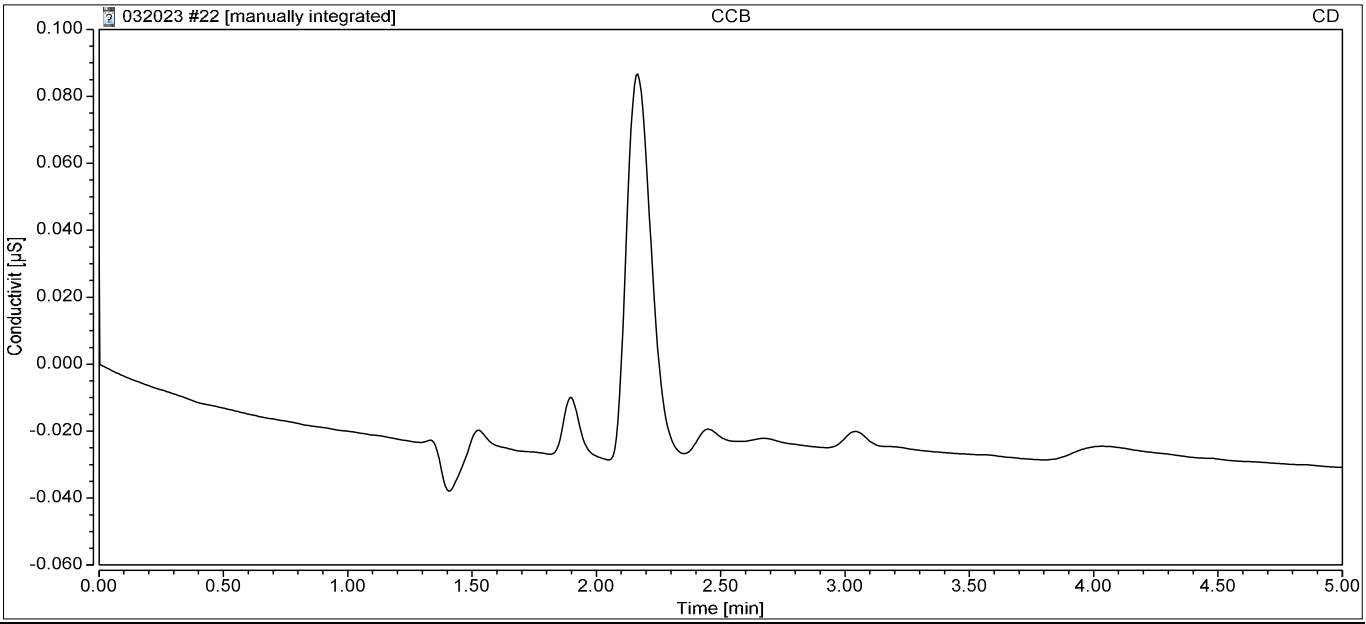
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	2.545	10.2095	10.2095	1.0000
2	1.90	Chloride	BMB	8.261	49.7375	49.7375	1.0000
3	2.16	Nitrite,N	BMB	3.036	9.6963	9.6963	1.0000
4	2.42	Sulfate	BMB	5.860	50.3428	50.3428	1.0000
5	2.67	Bromide	BMB	0.613	10.0467	10.0467	1.0000
6	2.99	Nitrate	BMB	3.424	10.0221	10.0221	1.0000
7	3.18	Chlorate	BMB	0.168	11.6785	11.6785	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**23.908**		**151.73**	

22 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/20/2023 10:44**	*Sample Weight:*	**1.0000**

Run Time:



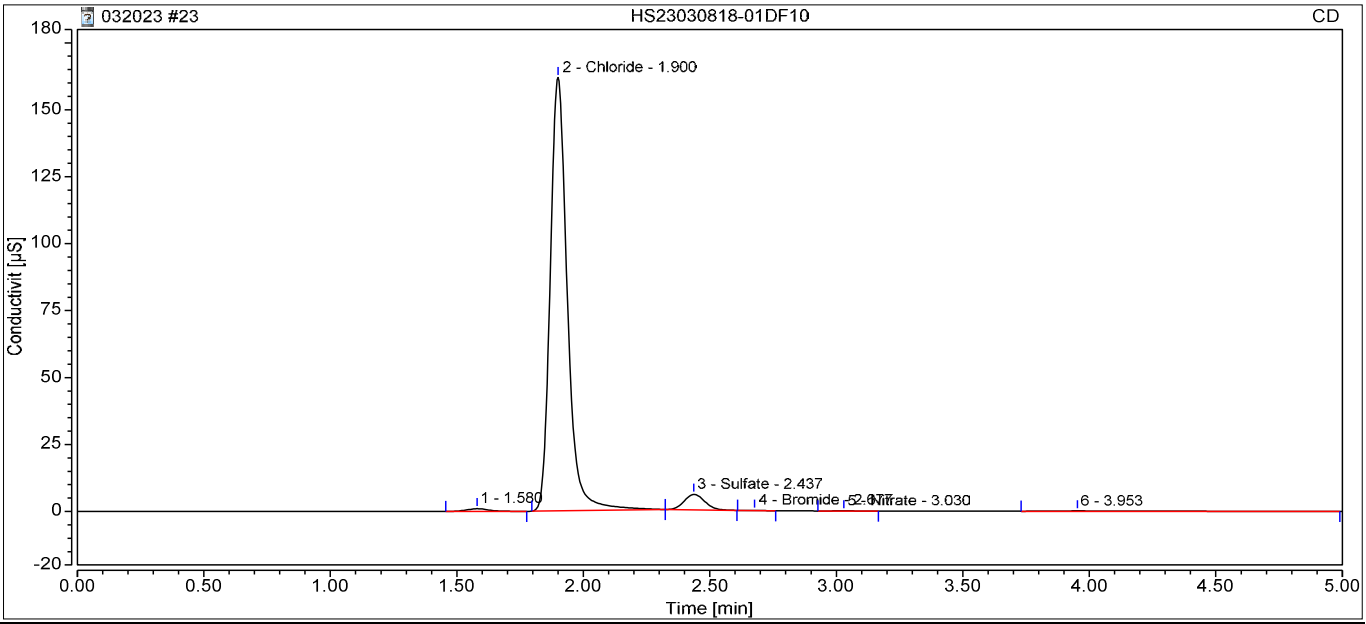
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

23 HS23030818-01DF10

Sample Name:	**HS23030818-01DF10**	*Injection Volume:*	**5.00**
Vial Number:	**RB1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**10.0000**
Recording Time:	**03/20/2023 10:56**	*Sample Weight:*	**1.0000**

Run Time:



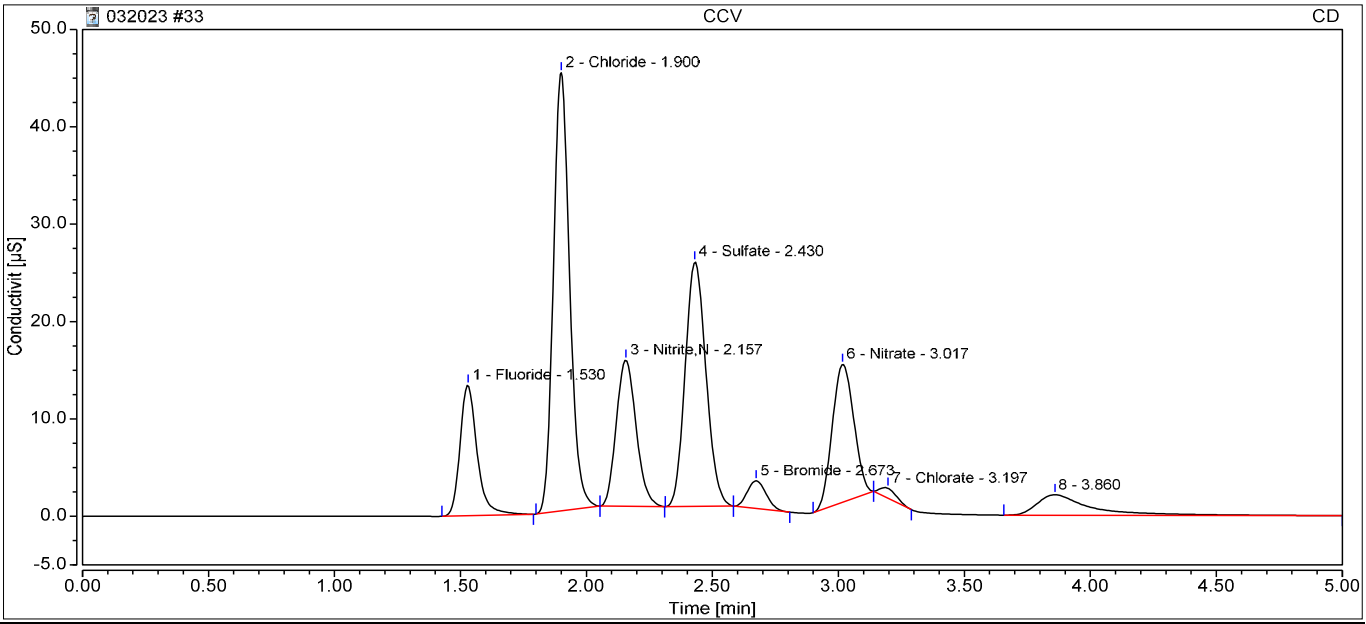
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	10.0000
2	1.90	Chloride	BMB	12.686	76.3173	763.1729	10.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	10.0000
3	2.44	Sulfate	BMB	0.545	4.5907	45.9074	10.0000
4	2.68	Bromide	BMB	0.004	0.0975	0.9748	10.0000
5	3.03	Nitrate	BMB	0.005	0.0154	0.1541	10.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	10.0000
Total:			**0.000**	**13.239**		**810.21**	

33 CCV

Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/20/2023 11:59**	*Sample Weight:*	**1.0000**

Run Time:



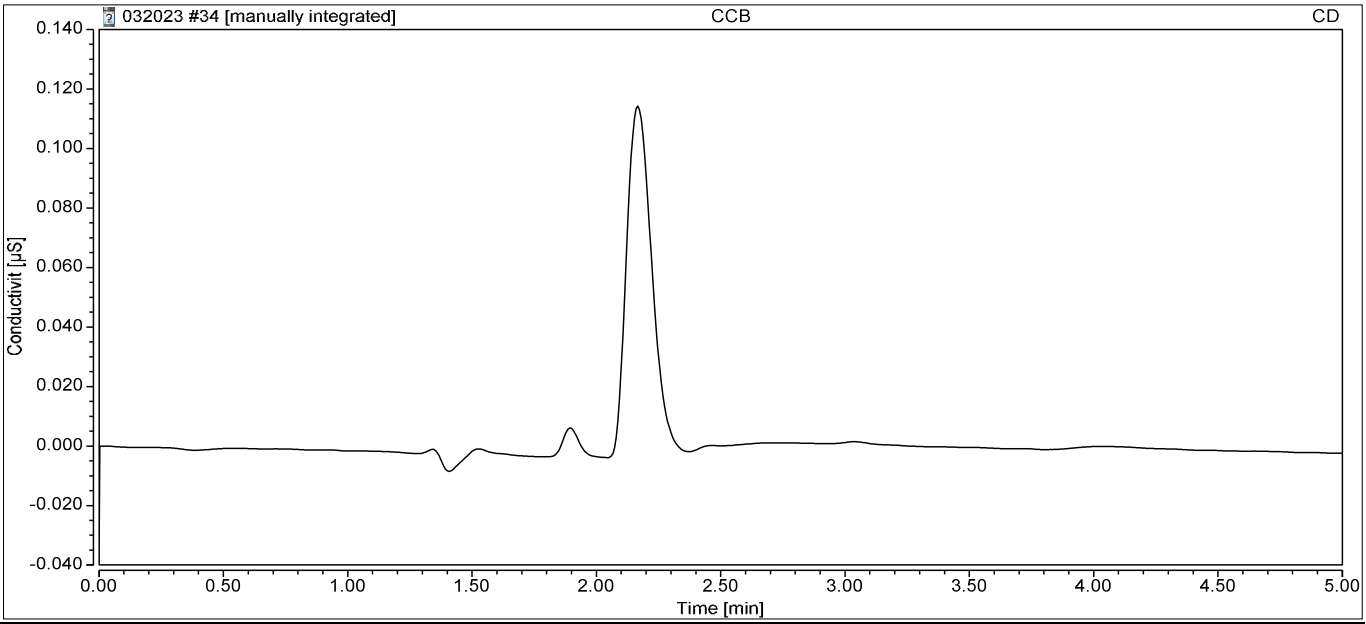
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	1.058	4.2271	4.2271	1.0000
2	1.90	Chloride	BMB	3.362	20.3011	20.3011	1.0000
3	2.16	Nitrite,N	BMB	1.375	4.0412	4.0412	1.0000
4	2.43	Sulfate	BMB	2.409	20.6339	20.6339	1.0000
5	2.67	Bromide	BMB	0.248	4.0831	4.0831	1.0000
6	3.02	Nitrate	BMB	1.404	4.1089	4.1089	1.0000
7	3.20	Chlorate	BMB	0.076	3.9530	3.9530	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.931**		**61.35**	

34 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R6**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/20/2023 12:11**	*Sample Weight:*	**1.0000**

Run Time:



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

HS23031257 Longhorn GW Treatment Plant
Weekly Samples Cover Page

ALS WO# HS23031257

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ALS Group USA, Corp
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  - Dates Report
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  - Acronyms
  - Certifications
  - SampleReceiptCheckList
  - COC
- HS23031257 Wet Chemistry

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right solutions.
right partner.

WorkOrder: HS23031257

Longhorn GW Treatment Plant Weekly Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

30-Mar-2023

HS23031257 Longhorn GW Treatment Plant Weekly Samples Final

ALS WO# HS23031257

10450 Stancliff Rd. Suite 210
Houston, TX 77099
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March 29, 2023

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS23031257**

Laboratory Results for: **Longhorn GW Treatment Plant Weekly Samples**

Dear Marcia Olive,

ALS Environmental received 1 sample(s) on Mar 22, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Dane J. Wacasey

ALS Houston, US Date: 29-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS23031257

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23031257-01	LH18/24-SP650_032123	Water		21-Mar-2023 13:00	22-Mar-2023 10:00	☐

ALS Houston, US Date: 29-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS23031257

CASE NARRATIVE

WetChemistry by Method E415.1

Batch ID: R431290

Sample ID: LH18/24-SP650_032123 (HS23031257-01MS)

- The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS may be due to sample matrix interference.

WetChemistry by Method E350.3

Batch ID: R431069

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E365.3

Batch ID: R430914

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US

Date: 29-Mar-23

Client: Bhate Environmental Associates, Inc.

ANALYTICAL REPORT

Project: Longhorn GW Treatment Plant Weekly Samples

WorkOrder:HS23031257

Sample ID: LH18/24-SP650_032123

Lab ID:HS23031257-01

Collection Date: 21-Mar-2023 13:00

Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
AMMONIA AS N BY E350.3(ISE)		**Method:E350.3**						Analyst: AB
Nitrogen, Ammonia (As N)	**6.9**	a	**0.10**	**0.10**	**0.20**	**mg/L**	1	27-Mar-2023 16:16
ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978		**Method:E365.3**						Analyst: MZD
Phosphorus, Total Orthophosphate (As P)	**2.72**	a	**0.100**	**0.125**	**0.250**	**mg/L**	10	23-Mar-2023 12:05
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: JAC
Organic Carbon, Total	**2.90**	a	**0.500**	**1.00**	**1.00**	**mg/L**	1	29-Mar-2023 11:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 29-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS23031257

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R430914 (0)	**Test Name :** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978				**Matrix:** Water	
HS23031257-01	LH18/24-SP650_032123	21 Mar 2023 13:00			23 Mar 2023 12:05	10
Batch ID: R431069 (0)	**Test Name :** AMMONIA AS N BY E350.3(ISE)				**Matrix:** Water	
HS23031257-01	LH18/24-SP650_032123	21 Mar 2023 13:00			27 Mar 2023 16:16	1
Batch ID: R431290 (0)	**Test Name :** TOTAL ORGANIC CARBON BY E415.1				**Matrix:** Water	
HS23031257-01	LH18/24-SP650_032123	21 Mar 2023 13:00			29 Mar 2023 11:44	1

ALS Houston, US Date: 29-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS23031257

QC BATCH REPORT

Batch ID: R430914 (0) **Instrument:** UV-2450 **Method:** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978

MBLK Sample ID: **MBLK-R430914** Units: **mg/L** Analysis Date: **23-Mar-2023 12:05**
Client ID: Run ID: **UV-2450_430914** SeqNo: **7193897** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.0125	0.0250								U

LCS Sample ID: **LCS-R430914** Units: **mg/L** Analysis Date: **23-Mar-2023 12:05**
Client ID: Run ID: **UV-2450_430914** SeqNo: **7193896** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.216	0.0250	0.25	0	86.4	85 - 115				

MS Sample ID: **HS23031257-01MS** Units: **mg/L** Analysis Date: **23-Mar-2023 12:05**
Client ID: **LH18/24-SP650_032123** Run ID: **UV-2450_430914** SeqNo: **7193899** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	5.2	0.250	2.5	2.72	99.2	80 - 120				

MSD Sample ID: **HS23031257-01MSD** Units: **mg/L** Analysis Date: **23-Mar-2023 12:05**
Client ID: **LH18/24-SP650_032123** Run ID: **UV-2450_430914** SeqNo: **7193898** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	5.2	0.250	2.5	2.72	99.2	80 - 120	5.2	0	20	

The following samples were analyzed in this batch: HS23031257-01

ALS Houston, US Date: 29-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS23031257

QC BATCH REPORT

Batch ID: R431069 (0) **Instrument: WetChem_HS** **Method: AMMONIA AS N BY E350.3(ISE)**

MBLK Sample ID: **MBLK-R431069** Units: **mg/L** Analysis Date: **27-Mar-2023 16:16**
Client ID: Run ID: **WetChem_HS_431069** SeqNo: **7197698** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	0.10	0.20								U

LCS Sample ID: **LCS-R431069** Units: **mg/L** Analysis Date: **27-Mar-2023 16:16**
Client ID: Run ID: **WetChem_HS_431069** SeqNo: **7197697** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	10	0.20	10	0	100	80 - 120				

MS Sample ID: **HS23030826-14MS** Units: **mg/L** Analysis Date: **27-Mar-2023 16:16**
Client ID: Run ID: **WetChem_HS_431069** SeqNo: **7197748** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	9.735	0.20	10	1.185	85.5	80 - 120				

MSD Sample ID: **HS23030826-14MSD** Units: **mg/L** Analysis Date: **27-Mar-2023 16:16**
Client ID: Run ID: **WetChem_HS_431069** SeqNo: **7197747** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	10.36	0.20	10	1.185	91.8	80 - 120	9.735	6.24	20	

The following samples were analyzed in this batch: HS23031257-01

ALS Houston, US Date: 29-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS23031257

QC BATCH REPORT

Batch ID: R431290 (0) **Instrument: TOC_04** **Method: TOTAL ORGANIC CARBON BY E415.1**

MBLK Sample ID: **MBLK-03292023** Units: **mg/L** Analysis Date: **29-Mar-2023 11:04**
Client ID: Run ID: **TOC_04_431290** SeqNo: **7203086** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	1.00	1.00								U

LCS Sample ID: **LCS-03292023** Units: **mg/L** Analysis Date: **29-Mar-2023 11:17**
Client ID: Run ID: **TOC_04_431290** SeqNo: **7203087** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.07	1.00	10	0	101	85 - 115				

LCSD Sample ID: **LCSD-03292023** Units: **mg/L** Analysis Date: **29-Mar-2023 11:31**
Client ID: Run ID: **TOC_04_431290** SeqNo: **7203088** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.2	1.00	10	0	102	85 - 115	10.07	1.28	20	

MS Sample ID: **HS23031257-01MS** Units: **mg/L** Analysis Date: **29-Mar-2023 11:57**
Client ID: **LH18/24-SP650_032123** Run ID: **TOC_04_431290** SeqNo: **7203090** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	15.02	1.00	10	2.902	121	80 - 120				S

The following samples were analyzed in this batch: HS23031257-01

ALS Houston, US Date: 29-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: **HS23031257**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
California	2919 2022-2023	30-Apr-2023
Dept of Defense	L21-682	31-Dec-2023
Florida	E87611-36	30-Jun-2023
Illinois	2000322022-9	09-May-2023
Kansas	E-10352; 2022-2023	31-Jul-2023
Kentucky	123043, 2022-2023	30-Apr-2023
Louisiana	03087, 2022-2023	30-Jun-2023
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2022-2023	30-Apr-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-22-29	30-Apr-2023
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US Date: 29-Mar-23

Sample Receipt Checklist

Work Order ID: HS23031257 **Date/Time Received:** 22-Mar-2023 10:00

Client Name: Bhate Environmental **Received by:** Paresh M. Giga

Completed By:	/S/ Corey Grandits	22-Mar-2023 15:34	**Reviewed by:**	/S/ Dane J. Wacasey	29-Mar-2023 17:01
	eSignature	Date/Time		eSignature	Date/Time

Matrices: W Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	1.4uc/0.9c	IR31
Cooler(s)/Kit(s):	43798	
Date/Time sample(s) sent to storage:	3/22/23	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stanciff Rd. Suite 210 Houston, TX, 77099 (281) 530-5656 ATTN: Dane Wacasey

Project: BHATE
LONGHORN ARMY AMMN. PLANT (LHAAP)
GROUNDWATER TREATMENT PLANT (GWTP)
KARNACK, TEXAS

Project No. NWO1312.0150.0 16.0001

Job: GROUNDWATER TREATMENT PLANT WEEKLY SAMPLES

Prepared By: Scott Beesinger

P.O. Number

HS23031257

Bhate Environmental Associates, Inc.
Longhorn GW Treatment Plant Weekly Samples

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analyses: AMMONIA-N	TOTAL ORGANIC CARBON	ORTHO-PHOSPHATE	PERCHLORATE						Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_032123	Water	03/21/23 / 13:00		3	X	X								H2SO4	
LH18/24-SP650_032123	Water	03/21/23 / 13:00		1			X							NONE	
LH18/24--SP650_032123_AIX	Water	03/21/23 / 13:00		1				X						NONE	
LH18/24-SP650_032123_BIX	Water	03/21/23 / 13:00		1				X						NONE	

Additional Remarks: 24 HR. TAT on Perchlorate Samples. Standard TAT on all other parameters

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	03/21/23	13:30		3/22/23	10:50						

For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition
43798 1.4° C									

Remarks: #31 Cl 10.5

(Word) S:\U-ces\Forms\Chain of Custody - BiWeekly

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5856
Fax. +1 281 530 5887

43798

CUSTODY SEAL

Date: 3/21/23 Time: 1330
Name: Scott Beesinger
Company: BHATE

Seal Broken By:
Date: 03/22/23

43798 MAR 2 2 2023

43798

ORIGIN ID:SGRA (903) 930-6193
SCOTT BEESINER
BHATE ENVIRONMENTAL ASSOCIATES
1203-B EAST GRAND AVE. PMB202

MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 08MAR23
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3702

TO SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099
(281) 530-5856
REF: PERCH-91462-DW

INV:
PO:

FedEx Express

FedEx 6230 2996 1150

WED - 22 MAR AA
PRIORITY OVERNIGHT

AB SGRA

77099
TX-US
IAH

3993907 21Mar2023 CGGA 5816/9982/C0D8

HS23031257 Wet Chemistry

ALS WO# HS23031257

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

NH_AMM_W_ISE
HS2303 1257

Logbook 32

Ion Selective Electrode Logbook

Analyst: AS/ MD					Date: 03/27/23		
Method: SM4500NH3-D/EPA 350.3 or SM4500 NH3 B-F							
Probe Calibration Date: 03/27/23		Cal Std ID: 3211041(09 -13)			Probe ID:		
Std Level		mV	Conc., mg/L:		Sodium Thiosulfate ID: NH3-8		
STD 1 (mg/L): 0.2		141.3	0.252		Std Level	mV	Conc., mg/L:
STD 2 (mg/L): 1		102.6	1.002		STD 4 (mg/L):	30.8	10.129
STD 3 (mg/L): 5		62.2	5.017		STD 5 (mg/L):	OL	60.580
LSC / MS Spike ID: 3100607123					ICAL Date & Slope: 121.3-10/-59.7		
ICV Cal STD ID: 3211041109							
DPD Reagent ID: 3100606413							

WO # / SX #	Bottle #	Initial g or ml	Final Vol. ml	Dilution Factor	Initial Conc. mg/L	Final Conc. mg/L	Chlorine Check (+/ –)	Comments
ICV					10.265			
ICB		50mL			0.006			
MBLK		~~50mL~~	50mL		0.009			
LCS		50mL			10.003			
HS2303 0700-01					0.892		-ve	
783-01					0.911		-ve	
826-13					0.819		-ve	
826-14					1.185		-ve	
826-15					0.820		-ve	
826-16 ~~826-17~~					0.742		-ve	
848-01					0.912		-ve	
1257-01					0.857		-ve	
CCV					9.005			
CCB					0.004			
HS23030 945-01					0.742		-ve	
1054-01					0.739		-ve	
1135-01					0.782		-ve	
1203-01					0.790	0.790	-ve	
1253-01					0.805	0.805	-ve	
1354-01					0.835	0.835	-ve	
1362-01					0.825	0.825	-ve	
1443-01					0.763		-ve	
826-14MS					9.735		-ve	
826-14MSD					10.342			
CCV					8.698			

Batch ID: 431075	Reported By:	Reviewed By:

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ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

NIT AMM_W

Logbook **32115**

Ion Selective Electrode Logbook

Analyst: AB / MD					Date:			
Method: SM4500NH3-D/EPA 350.3 or SM4500 NH3 B-F								
Probe Calibration Date:		Cal Std ID: cont. page 77			Probe ID:			
Std Level		mV	Conc., mg/L:		Sodium Thiosulfate ID:			
STD 1 (mg/L):					Std Level	mV	Conc., mg/L:	
STD 2 (mg/L):					STD 4 (mg/L):			
STD 3 (mg/L):					STD 5 (mg/L):			
LSC / MS Spike ID:					ICAL Date & Slope:			
ICV Cal STD ID:								
DPD Reagent ID:								

WO # / SX #	Bottle #	Initial g or ml	Final Vol. ml	Dilution Factor	Initial Conc. mg/L	Final Conc. mg/L	Chlorine Check (+/–)	Comments
CCB					0.008			

Batch ID:	Reported By	Reviewed By:

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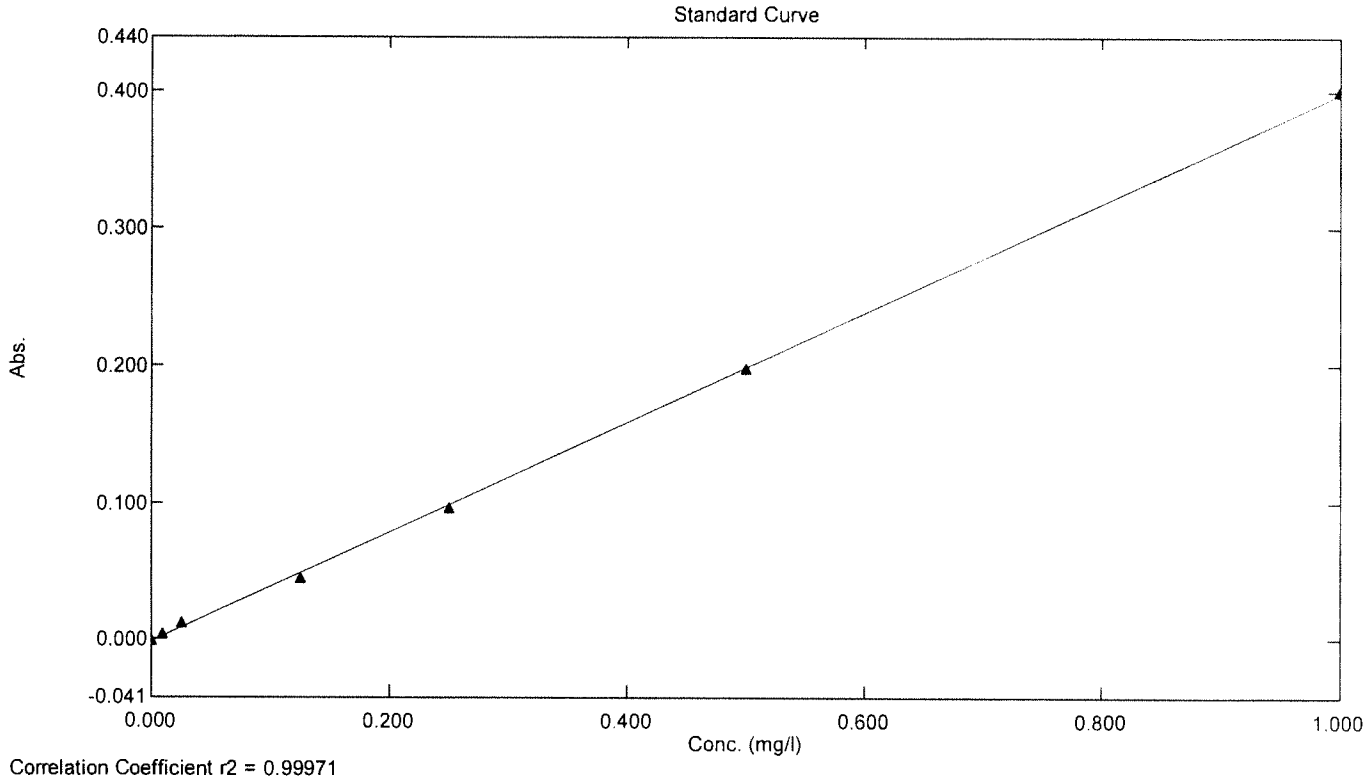
HS2303257

Standard Table Report

03/27/2023 07:17:56 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO (365.3 METHOD)\2023\03232023_P_ORTHO_W.pho



Correlation Coefficient r2 = 0.99971

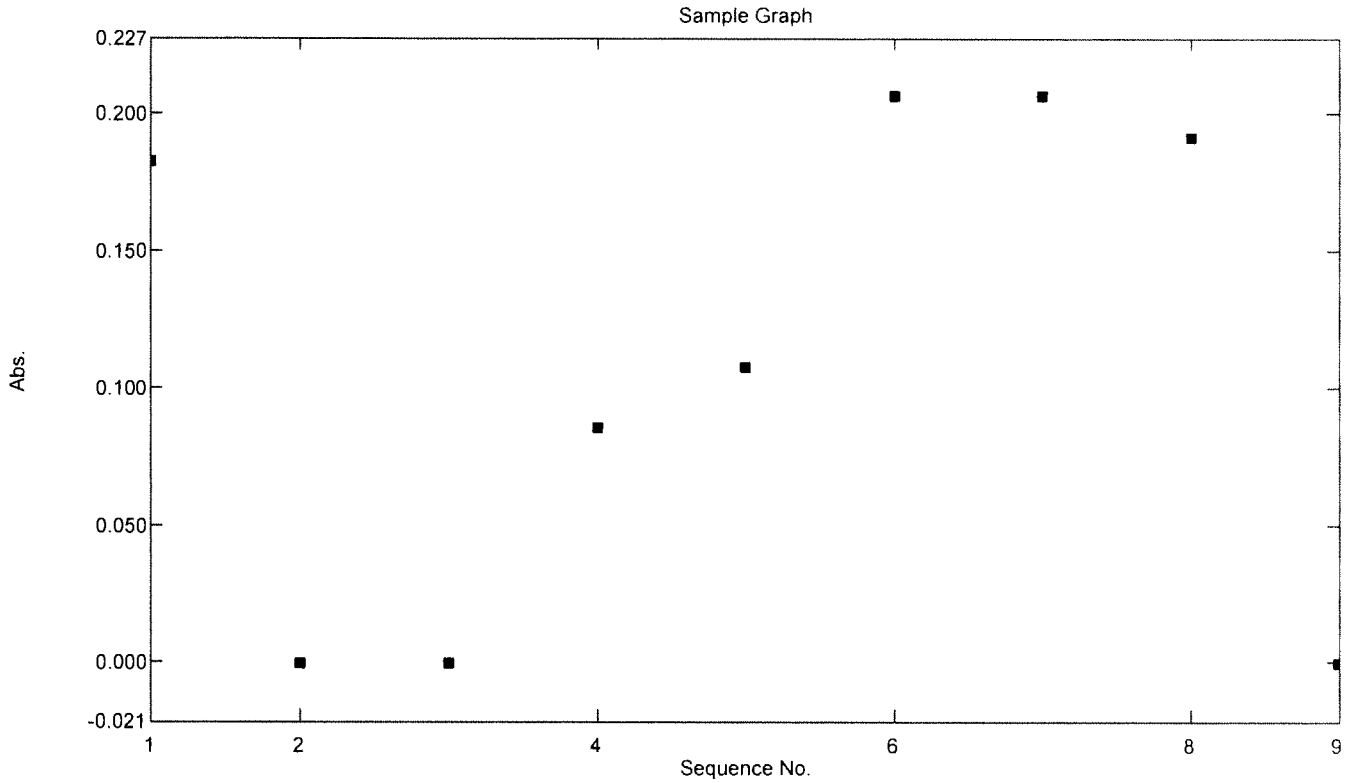
Standard Table

	Sample ID	Type	Ex	Conc	WL650.0	Wgt.Factor	Comments
1	STD1	Standard		0.000	-0.000	1.000	
2	STD2	Standard		0.010	0.005	1.000	
3	STD3	Standard		0.025	0.012	1.000	
4	STD4	Standard		0.125	0.045	1.000	
5	STD5	Standard		0.250	0.096	1.000	
6	STD6	Standard		0.500	0.197	1.000	
7	STD7	Standard		1.000	0.400	1.000	
8							

Sample Table Report

03/27/2023 07:17:57 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO (365.3 METHOD)\2023\03232023_P_ORTHO_W.pho



Sample Table

	Sample ID	Date	Time	Conc	WL650.	Comments
1	CCV	03/23/2023	12:05:07 PM	0.460	0.182	321103702 WC-20
2	CCB	03/23/2023	12:05:17 PM	0.002	-0.000	
3	MBLK	03/23/2023	12:05:19 PM	0.002	-0.000	3100606911 WC-13
4	LCS	03/23/2023	12:05:49 PM	0.216	0.085	321103701 WC-20
5	HS23031257.01	03/23/2023	12:06:30 PM	0.272	0.107	PF:10X
6	HS23031257.01MS	03/23/2023	12:06:46 PM	0.520	0.207	PF:10X
7	HS23031257.01MSD	03/23/2023	12:06:59 PM	0.520	0.206	PF:10X
8	CCV2	03/23/2023	12:07:38 PM	0.482	0.191	AM-321100712 WC-20
9	CCB2	03/23/2023	12:07:46 PM	0.002	-0.001	AS-321103703 WC-20
10						

C:\TOC-L\Data\2023_03_27_002.CAL.tlx

HS23031257

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Standard	NPOC	CAL	321104406	03_27_2023	1.000		
2	Unknown	NPOC	ICV	3100606923	03_27_2023	1.000	NPOC:10.39mg/L	
3	Unknown	NPOC	ICB		03_27_2023	1.000	NPOC:0.5513mg/	

C:\TOC-L\Data\2023_03_27_002.CAL.tlx

	Status	Date / Time	Vial
1	Completed	3/27/2023 2:55:48	1, 2, 3, 4, 5,
2	Completed	3/27/2023 3:09:01	8
3	Completed	3/27/2023 3:21:20	9

TOC-Control L Report

2023_03_27_002.CAL.tlx

Instr.Information

Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Cal. Curve

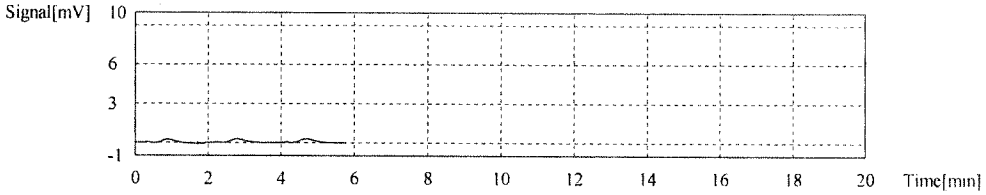
Sample Name:	CAL
Sample ID:	321104406
Cal. Curve:	03_27_2023_CAL.2023_03_27_13_24_18.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.6126	50uL	1.000	*******		3/27/2023 1:32:15 PM
2	0.6651	50uL	1.000	*******		3/27/2023 1:34:25 PM
3	0.7575	50uL	1.000	*******		3/27/2023 1:36:33 PM

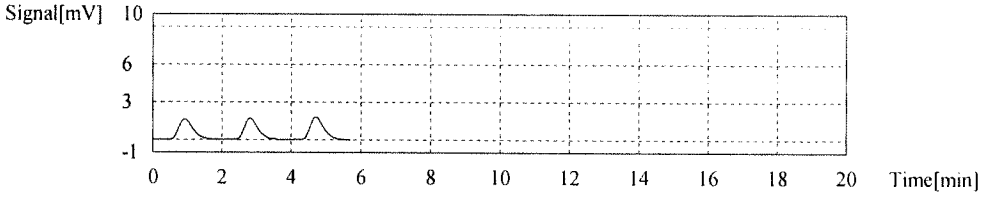
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	0.6784



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.693	50uL	1.000	*******		3/27/2023 1:44:37 PM
2	4.633	50uL	1.000	*******		3/27/2023 1:46:45 PM
3	4.978	50uL	1.000	*******		3/27/2023 1:48:53 PM

Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	4.768



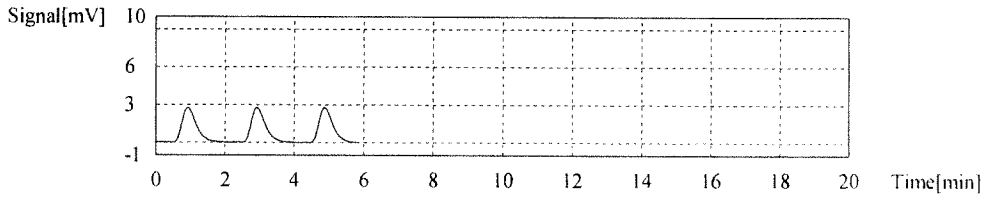
Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.890	50uL	1.000	*******		3/27/2023 1:57:04 PM
2	7.696	50uL	1.000	*******		3/27/2023 1:59:15 PM
3	7.919	50uL	1.000	*******		3/27/2023 2:01:23 PM

TOC-Control L Report

2023_03_27_002 CAL.tlx

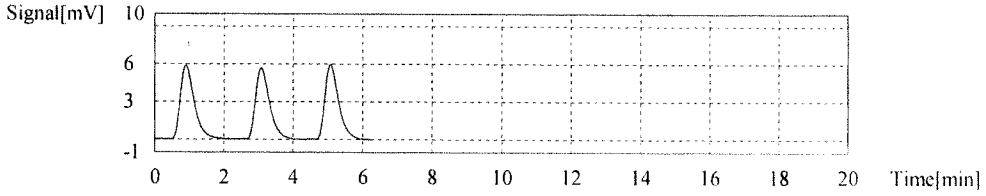
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 7.835



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	16.42	50uL	1.000	*******		3/27/2023 2:09:43 PM
2	16.08	50uL	1.000	*******		3/27/2023 2:11:58 PM
3	16.30	50uL	1.000	*******		3/27/2023 2:14:15 PM

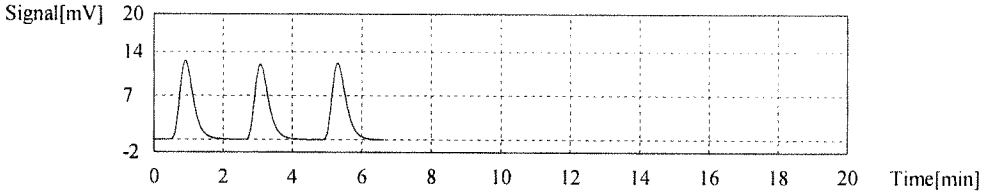
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 16.27



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	35.01	50uL	1.000	*******		3/27/2023 2:22:35 PM
2	34.18	50uL	1.000	*******		3/27/2023 2:25:03 PM
3	34.84	50uL	1.000	*******		3/27/2023 2:27:30 PM

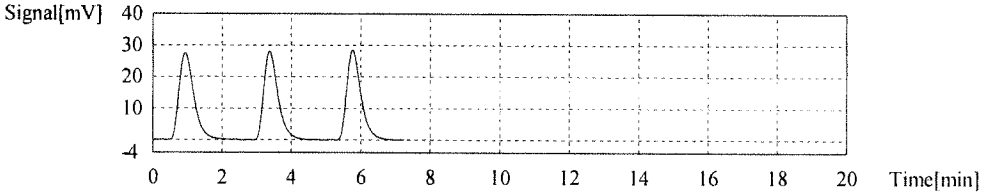
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 34.68



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	82.45	50uL	1.000	*******		3/27/2023 2:36:07 PM
2	80.86	50uL	1.000	*******		3/27/2023 2:38:45 PM
3	82.11	50uL	1.000	*******		3/27/2023 2:41:24 PM

Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 81.81



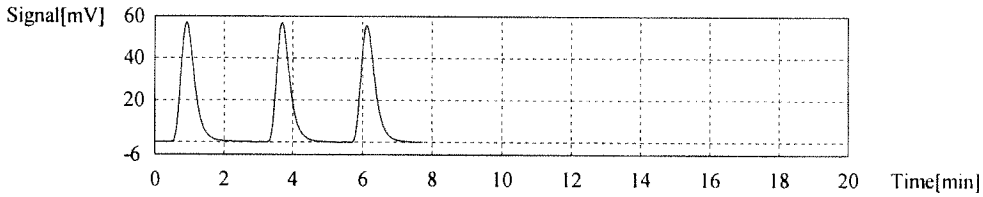
Conc: 50.00mg/L

TOC-Control L Report

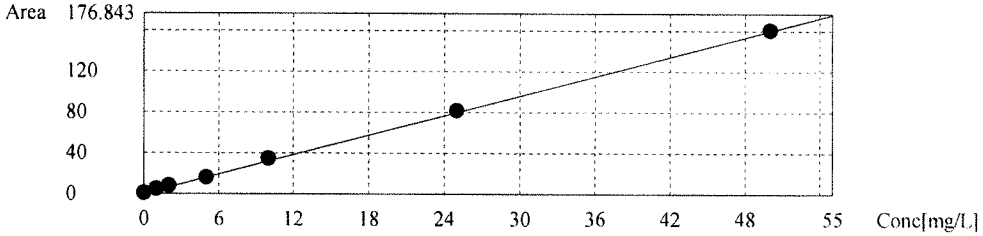
2023_03_27_002 CAL.tlx

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	161.9	50uL	1.000	*******		3/27/2023 2:50:21 PM
2	158.5	50uL	1.000	*******		3/27/2023 2:53:02 PM
3	161.9	50uL	1.000	*******		3/27/2023 2:55:48 PM

Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 160.8



Slope: 3.197
Intercept 0.000
r^2 0.9998
r 0.9999
RSE(%) N/A
Zero Shift Yes



Sample

Sample Name: ICV
Sample ID: 3100606923
Origin: 03_27_2023_CAL.cal
Status Completed
Chk. Result

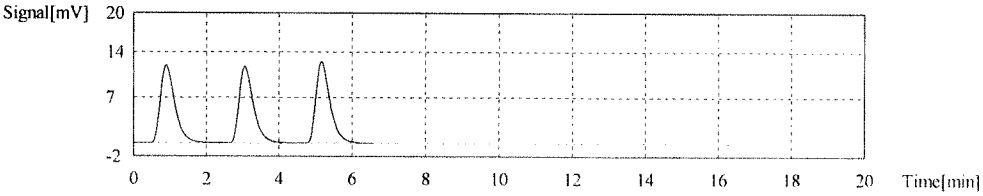
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 10.39mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	33.19	10.38mg/L	50uL	1.000		03_27_2023_CAL 2023_03_27_13_24_18.cal	3/27/2023 3:04:08 PM
2	32.30	10.10mg/L	50uL	1.000		03_27_2023_CAL 2023_03_27_13_24_18.cal	3/27/2023 3:06:30 PM
3	34.14	10.68mg/L	50uL	1.000		03_27_2023_CAL 2023_03_27_13_24_18.cal	3/27/2023 3:09:01 PM

Mean Area 33.21
Mean Conc. 10.39mg/L



Sample

TOC-Control L Report

2023_03_27_002.CAL.tlx

Sample Name: ICB
Sample ID:
Origin: 03_27_2023_CAL.cal
Status Completed
Chk. Result

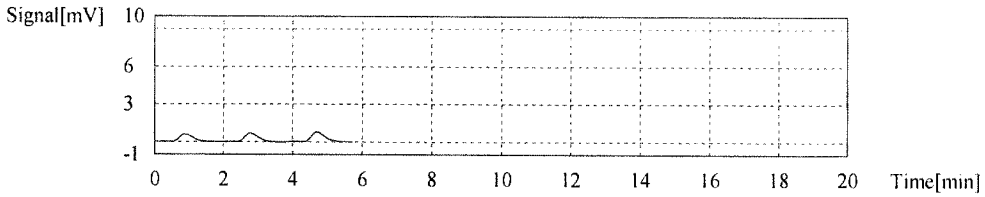
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 0.5513mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.462	0.4573mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/27/2023 3:17:05 PM
2	1.831	0.5727mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/27/2023 3:19:13 PM
3	1.994	0.6237mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/27/2023 3:21:20 PM

Mean Area 1.762
Mean Conc. 0.5513mg/L



C:\TOC-L\Data\2023_03_29_001.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Unknown	NPOC	CCV	321104406	03_27_2023	1.000	NPOC:26.30mg/L	
2	Unknown	NPOC	CCB		03_27_2023	1.000	NPOC:0.1065mg/	
3	Unknown	NPOC	MBLK-03292023		03_27_2023	1.000	NPOC:0.07474mg	
4	Unknown	NPOC	LCS-03292023	3100660692	03_27_2023	1.000	NPOC:10.07mg/L	
5	Unknown	NPOC	LCSD-03292023		03_27_2023	1.000	NPOC:10.20mg/L	
6	Unknown	NPOC	HS23031257-01		03_27_2023	1.000	NPOC:2.902mg/L	
7	Unknown	NPOC	HS23031257-01MS		03_27_2023	1.000	NPOC:15.02mg/L	
8	Unknown	NPOC	HS23031264-01		03_27_2023	1.000	NPOC:2.794mg/L	
9	Unknown	NPOC	HS23031264-02		03_27_2023	1.000	NPOC:1.413mg/L	
10	Unknown	NPOC	HS23031264-03		03_27_2023	1.000	NPOC:1.320mg/L	
11	Unknown	NPOC	HS23031264-04		03_27_2023	1.000	NPOC:1.858mg/L	
12	Unknown	NPOC	HS23031264-05		03_27_2023	1.000	NPOC:2.411mg/L	
13	Unknown	NPOC	CCV	321104406	03_27_2023	1.000	NPOC:25.82mg/L	
14	Unknown	NPOC	CCB		03_27_2023	1.000	NPOC:0.2673mg/	
15	Unknown	NPOC	HS23031264-06		03_27_2023	1.000	NPOC:1.141mg/L	
16	Unknown	NPOC	HS23031264-07		03_27_2023	1.000	NPOC:2.153mg/L	
17	Unknown	NPOC	HS23031264-08		03_27_2023	1.000	NPOC:2.698mg/L	
18	Unknown	NPOC	HS23031264-10		03_27_2023	1.000	NPOC:1.645mg/L	
19	Unknown	NPOC	CCV	321104406	03_27_2023	1.000	NPOC:25.61mg/L	
20	Unknown	NPOC	CCB		03_27_2023	1.000	NPOC:0.2848mg/	

C:\TOC-L\Data\2023_03_29_001.tlx

	Status	Date / Time	Vial
1	Completed	3/29/2023 10:39:22	1
2	Completed	3/29/2023 10:51:41	2
3	Completed	3/29/2023 11:04:01	3
4	Completed	3/29/2023 11:17:23	4
5	Completed	3/29/2023 11:31:35	5
6	Completed	3/29/2023 11:44:03	6
7	Completed	3/29/2023 11:57:27	7
8	Completed	3/29/2023 12:09:55	8
9	Completed	3/29/2023 12:22:18	9
10	Completed	3/29/2023 12:34:37	10
11	Completed	3/29/2023 12:47:03	11
12	Completed	3/29/2023 12:59:38	12
13	Completed	3/29/2023 1:13:54	1
14	Completed	3/29/2023 1:29:15	2
15	Completed	3/29/2023 1:41:53	13
16	Completed	3/29/2023 1:54:26	14
17	Completed	3/29/2023 2:07:01	15
18	Completed	3/29/2023 2:19:29	16
19	Completed	3/29/2023 2:33:50	1
20	Completed	3/29/2023 2:46:07	2

TOC-Control L Report

2023_03_29_001.tlx

Instr.Information

Instrument Options: TOC/ASI/IC Unit/
Catalyst: Regular Sensitivity

Sample

Sample Name: CCV
Sample ID: 321104406
Origin: 03_27_2023_CAL.cal
Status: Completed
Chk. Result:

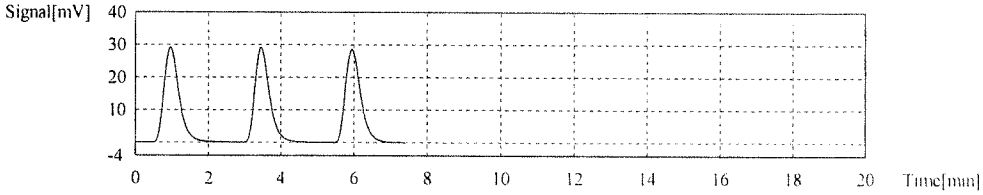
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.30mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	84.15	26.32mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 10:34:00 AM
2	83.10	25.99mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 10:36:44 AM
3	84.98	26.58mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 10:39:22 AM

Mean Area: 84.08
Mean Conc.: 26.30mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 03_27_2023_CAL.cal
Status: Completed
Chk. Result:

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1065mg/L

1. Det

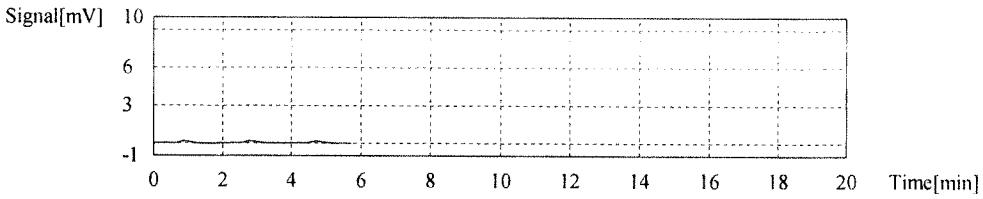
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3843	0.1202mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 10:47:26 AM
2	0.3824	0.1196mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 10:49:33 AM
3	0.2551	0.07979mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 10:51:41 AM

TOC-Control L Report

2023_03_29_001.tlx

Mean Area 0.3406
Mean Conc. 0.1065mg/L



Sample

Sample Name: MBLK-03292023
Sample ID:
Origin: 03_27_2023_CAL.cal
Status Completed
Chk. Result

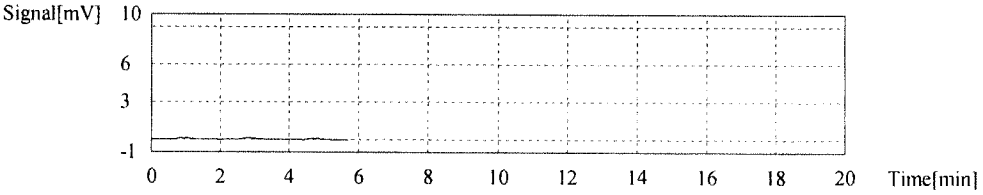
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.07474mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2260	0.07069mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 10:59:45 AM
2	0.2054	0.06425mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 11:01:53 AM
3	0.2854	0.08927mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 11:04:01 AM

Mean Area 0.2389
Mean Conc. 0.07474mg/L



Sample

Sample Name: LCS-03292023
Sample ID: 3100660692
Origin: 03_27_2023_CAL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.07mg/L

1. Det

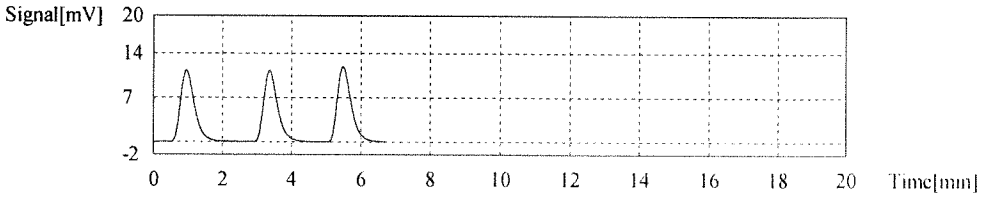
Anal.: NPOC

TOC-Control L Report

2023_03_29_001.tlx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	31.96	9.997mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 11:12:36 AM
2	31.56	9.872mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 11:15:00 AM
3	33.02	10.33mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 11:17:23 AM

Mean Area 32.18
Mean Conc. 10.07mg/L



Sample

Sample Name: LCSD-03292023
Sample ID:
Origin: 03_27_2023_CAL.cal
Status Completed
Chk. Result

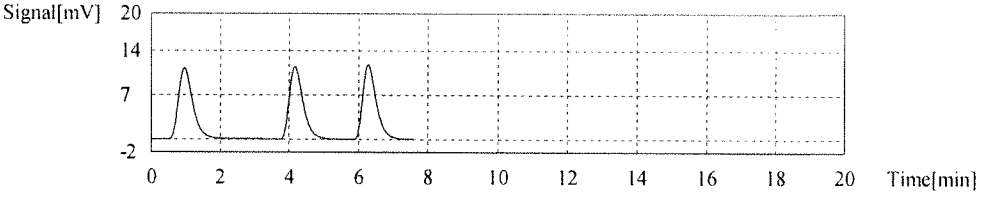
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 10.20mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	32.86	10.28mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 11:26:46 AM
2	32.10	10.04mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 11:29:09 AM
3	32.86	10.28mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 11:31:35 AM

Mean Area 32.61
Mean Conc. 10.20mg/L



Sample

Sample Name: HS23031257-01
Sample ID:
Origin: 03_27_2023_CAL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 2.902mg/L

1. Det

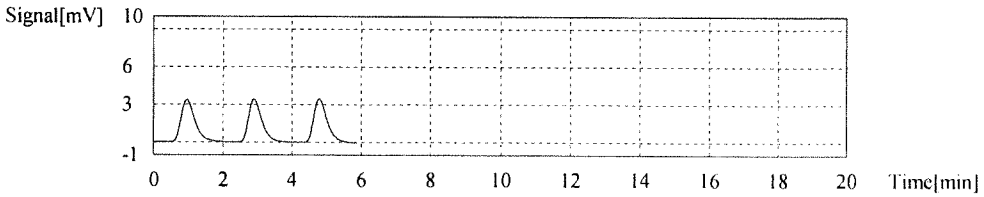
TOC-Control L Report

2023_03_29_001.tlx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.212	2.881mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 11:39:42 AM
2	9.160	2.865mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 11:41:50 AM
3	9.460	2.959mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 11:44:03 AM

Mean Area 9.277
Mean Conc. 2.902mg/L



Sample

Sample Name: HS23031257-01MS
Sample ID:
Origin: 03_27_2023_CAL.cal
Status Completed
Chk. Result

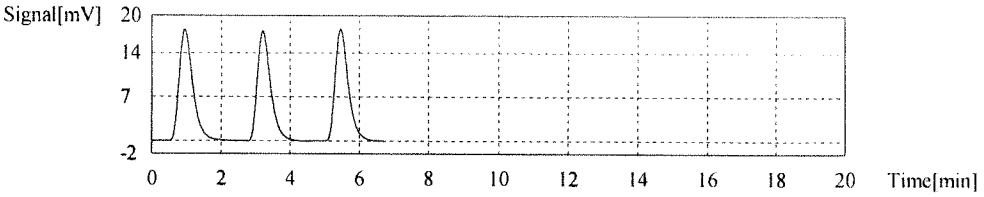
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 15.02mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	48.65	15.22mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 11:52:29 AM
2	47.68	14.91mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 11:54:58 AM
3	47.69	14.92mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 11:57:27 AM

Mean Area 48.01
Mean Conc. 15.02mg/L



Sample

Sample Name: CCV
Sample ID: 321104406
Origin: 03_27_2023_CAL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 25.82mg/L

TOC-Control L Report

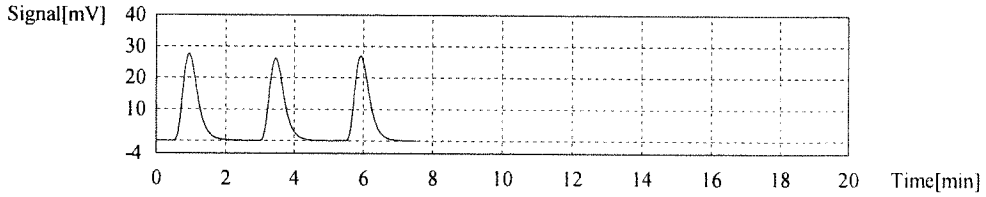
2023_03_29_001.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	84.10	26.31mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 1:08:25 PM
2	81.43	25.47mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 1:11:10 PM
3	82.14	25.69mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 1:13:54 PM

Mean Area 82.56
Mean Conc. 25.82mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 03_27_2023_CAL.cal
Status Completed
Chk. Result

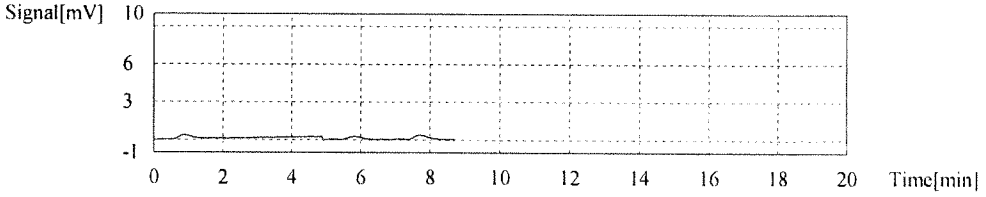
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 0.2673mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.056	0.3303mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 1:24:57 PM
2	0.5927	0.1854mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 1:27:06 PM
3	0.9149	0.2862mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 1:29:15 PM

Mean Area 0.8545
Mean Conc. 0.2673mg/L



Sample

Sample Name: CCV
Sample ID: 321104406
Origin: 03_27_2023_CAL.cal
Status Completed
Chk. Result

TOC-Control L Report

2023_03_29_001.tlx

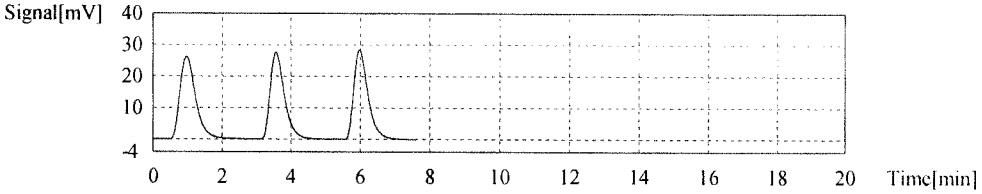
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 25.61mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	82.90	25.93mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 2:28:24 PM
2	80.55	25.20mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 2:31:03 PM
3	82.13	25.69mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 2:33:50 PM

Mean Area 81.86
Mean Conc. 25.61mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 03_27_2023_CAL.cal
Status Completed
Chk. Result

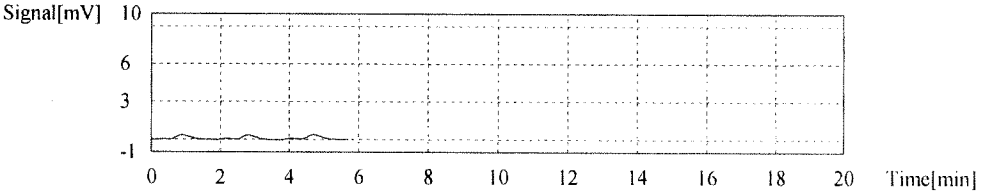
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 0.2848mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8529	0.2668mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 2:41:53 PM
2	0.8806	0.2755mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 2:44:00 PM
3	0.9984	0.3123mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/29/2023 2:46:07 PM

Mean Area 0.9106
Mean Conc. 0.2848mg/L



HS23031291 Groundwater Treatment Plant Quarterly Effluent Samples Cover Page

ALS WO# HS23031291

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right solutions.
right partner.

WorkOrder: HS23031291

Groundwater Treatment Plant Quarterly Effluent Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

31-Mar-2023

HS23031291 Groundwater Treatment Plant Quarterly Effluent Samples Final

ALS WO# HS23031291

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March 31, 2023

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS23031291**

Laboratory Results for: **Groundwater Treatment Plant Quarterly Effluent Samples**

Dear Marcia Olive,

ALS Environmental received 3 sample(s) on Mar 22, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: DAYNA.FISHER
Dane J. Wacasey

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
Work Order: HS23031291

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23031291-01	LH18/24-SP650_032123	Water		21-Mar-2023 13:00	22-Mar-2023 10:00	☐
HS23031291-02	LH18/24-SP650_032123_AIX	Water	CG-041121-124	21-Mar-2023 13:00	22-Mar-2023 10:00	☐
HS23031291-03	Trip Blank	Trip Blank	CG-041121-124	21-Mar-2023 13:00	22-Mar-2023 10:00	☐

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Groundwater Treatment Plant Quarterly Effluent Samples
Work Order: HS23031291

Work Order Comments

- The analysis for Perchlorate was subcontracted to ALS Houston High-Res Lab. Final report attached

GCMS Semivolatiles by Method SW8270SIM

Batch ID: 191255

Sample ID: LH18/24-SP650_032123 (HS23031291-01)

- High surrogate recovery for 4-terphenyl does not affect target anlyte 1,4-dioxane. Surrogate and target analyte belong to different surrogate and internal standard groups.

GCMS Volatiles by Method SW8260

Batch ID: R430844

Sample ID: LH18/24-SP650_032123 (HS23031291-01MS)

- MS/MSD failed QC limits for some compounds. No RPDs

Metals by Method SW7470A

Batch ID: 191507

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 191406

Sample ID: LH18/24-SP650_032123 (HS23031291-01MS)

- The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. Sodium.

WetChemistry by Method E1664A

Batch ID: R431158

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9056

Batch ID: R431099

Sample ID: HS23031330-10MS

- MS and MSD are for an unrelated sample (Chloride,Sulfate)

WetChemistry by Method E410.4

Batch ID: R431068

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Groundwater Treatment Plant Quarterly Effluent Samples WorkOrder:HS23031291
Sample ID: LH18/24-SP650_032123 Lab ID:HS23031291-01
Collection Date: 21-Mar-2023 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:57
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	23-Mar-2023 13:57
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:57
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:57
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:57
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	23-Mar-2023 13:57
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	23-Mar-2023 13:57
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:57
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:57
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	23-Mar-2023 13:57
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:57
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	23-Mar-2023 13:57
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:57
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:57
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:57
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	23-Mar-2023 13:57
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	23-Mar-2023 13:57
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:57
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	23-Mar-2023 13:57
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	23-Mar-2023 13:57
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	23-Mar-2023 13:57
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Groundwater Treatment Plant Quarterly Effluent Samples WorkOrder:HS23031291
Sample ID: LH18/24-SP650_032123 Lab ID:HS23031291-01
Collection Date: 21-Mar-2023 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:57
cis-1,2-Dichloroethene	**0.87**	J	**0.20**	**1.0**	**1.0**	**ug/L**	1	23-Mar-2023 13:57
cis-1,3-Dichloropropene	1.0	U	0.10	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	23-Mar-2023 13:57
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	23-Mar-2023 13:57
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:57
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:57
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:57
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:57
Surr: 1,2-Dichloroethane-d4	*83.4*			**0**	*81-118*	*%REC*	*1*	*23-Mar-2023 13:57*
Surr: 4-Bromofluorobenzene	*99.5*			**0**	*85-114*	*%REC*	*1*	*23-Mar-2023 13:57*
Surr: Dibromofluoromethane	*88.9*			**0**	*80-119*	*%REC*	*1*	*23-Mar-2023 13:57*
Surr: Toluene-d8	*109*			**0**	*89-112*	*%REC*	*1*	*23-Mar-2023 13:57*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 24-Mar-2023		Analyst: MBG
1,4-Dioxane	**1.3**		**0.10**	**0.050**	**0.10**	**ug/L**	10	30-Mar-2023 15:33
Surr: 2-Fluorobiphenyl	*104*			**0**	*40-140*	*%REC*	*10*	*30-Mar-2023 15:33*
Surr: 4-Terphenyl-d14	*286*	*S*		**0**	*40-140*	*%REC*	*10*	*30-Mar-2023 15:33*
Surr: Nitrobenzene-d5	*87.6*			**0**	*40-140*	*%REC*	*10*	*30-Mar-2023 15:33*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
Sample ID: LH18/24-SP650_032123
Collection Date: 21-Mar-2023 13:00

ANALYTICAL REPORT
WorkOrder:HS23031291
Lab ID:HS23031291-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 27-Mar-2023		Analyst: JC
Aluminum	**0.0125**		**0.00180**	**0.0150**	**0.0100**	**mg/L**	1	29-Mar-2023 11:22
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	29-Mar-2023 11:22
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	29-Mar-2023 11:22
Barium	**0.0924**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	29-Mar-2023 11:22
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	29-Mar-2023 11:22
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	29-Mar-2023 11:22
Calcium	**12.5**		**0.0340**	**1.00**	**0.500**	**mg/L**	1	29-Mar-2023 11:22
Chromium	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	29-Mar-2023 11:22
Cobalt	**0.000558**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	29-Mar-2023 11:22
Iron	**0.316**		**0.0120**	**1.00**	**0.200**	**mg/L**	1	29-Mar-2023 11:22
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	29-Mar-2023 11:22
Magnesium	**12.0**		**0.0100**	**1.00**	**0.200**	**mg/L**	1	29-Mar-2023 11:22
Manganese	**0.0648**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	29-Mar-2023 11:22
Nickel	**0.00350**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	29-Mar-2023 11:22
Potassium	**1.86**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	29-Mar-2023 11:22
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	29-Mar-2023 11:22
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	29-Mar-2023 11:22
Sodium	**574**		**0.700**	**50.0**	**10.0**	**mg/L**	50	29-Mar-2023 11:45
Thallium	**0.000335**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	29-Mar-2023 11:22
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	29-Mar-2023 11:22
Zinc	**0.0111**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	29-Mar-2023 11:22
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 29-Mar-2023		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	29-Mar-2023 13:03
OIL & GREASE (HEM) BY E1664A		**Method:E1664A**						Analyst: VD
Oil and Grease	**0.900**	J	**0.610**	**1.00**	**2.00**	**mg/L**	1	27-Mar-2023 08:00
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		**Method:E410.4**						Analyst: TH
Chemical Oxygen Demand	**25.0**		**5.00**	**7.50**	**15.0**	**mg/L**	1	27-Mar-2023 13:00
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**800**		**4.00**	**5.00**	**10.0**	**mg/L**	20	27-Mar-2023 14:24
Sulfate	**47.3**		**0.200**	**0.250**	**0.500**	**mg/L**	1	27-Mar-2023 14:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.

ANALYTICAL REPORT

Project: Groundwater Treatment Plant Quarterly Effluent Samples

WorkOrder:HS23031291

Sample ID: LH18/24-SP650_032123_AIX

Lab ID:HS23031291-02

Collection Date: 21-Mar-2023 13:00

Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	30-Mar-2023 12:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Quarterly Effluent Samples WorkOrder:HS23031291
Sample ID: Trip Blank Lab ID:HS23031291-03
Collection Date: 21-Mar-2023 13:00 Matrix:Trip Blank

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:15
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	23-Mar-2023 13:15
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:15
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:15
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:15
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	23-Mar-2023 13:15
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	23-Mar-2023 13:15
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:15
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:15
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	23-Mar-2023 13:15
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:15
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	23-Mar-2023 13:15
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:15
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:15
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:15
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	23-Mar-2023 13:15
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	23-Mar-2023 13:15
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:15
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	23-Mar-2023 13:15
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	23-Mar-2023 13:15
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	23-Mar-2023 13:15
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Quarterly Effluent Samples WorkOrder:HS23031291
Sample ID: Trip Blank Lab ID:HS23031291-03
Collection Date: 21-Mar-2023 13:00 Matrix:Trip Blank

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:15
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:15
cis-1,3-Dichloropropene	1.0	U	0.10	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	23-Mar-2023 13:15
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	23-Mar-2023 13:15
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:15
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:15
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:15
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Trichlorofluoromethane	**3.2**		**0.30**	**1.0**	**1.0**	**ug/L**	1	23-Mar-2023 13:15
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:15
Surr: 1,2-Dichloroethane-d4	*81.0*			**0**	*81-118*	*%REC*	*1*	*23-Mar-2023 13:15*
Surr: 4-Bromofluorobenzene	*100*			**0**	*85-114*	*%REC*	*1*	*23-Mar-2023 13:15*
Surr: Dibromofluoromethane	*87.2*			**0**	*80-119*	*%REC*	*1*	*23-Mar-2023 13:15*
Surr: Toluene-d8	*107*			**0**	*89-112*	*%REC*	*1*	*23-Mar-2023 13:15*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 31-Mar-23

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

Batch ID: 191255 **Start Date:** 24 Mar 2023 09:00 **End Date:** 24 Mar 2023 13:00
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23031291-01		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 191406 **Start Date:** 27 Mar 2023 14:00 **End Date:** 27 Mar 2023 18:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23031291-01		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 191507 **Start Date:** 29 Mar 2023 08:00 **End Date:** 29 Mar 2023 11:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23031291-01		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 191255 (0)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Water	
HS23031291-01	LH18/24-SP650_032123	21 Mar 2023 13:00		24 Mar 2023 07:48	30 Mar 2023 15:33	10
Batch ID: 191406 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Water	
HS23031291-01	LH18/24-SP650_032123	21 Mar 2023 13:00		27 Mar 2023 14:00	29 Mar 2023 11:45	50
HS23031291-01	LH18/24-SP650_032123	21 Mar 2023 13:00		27 Mar 2023 14:00	29 Mar 2023 11:22	1
Batch ID: 191507 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS23031291-01	LH18/24-SP650_032123	21 Mar 2023 13:00		29 Mar 2023 08:00	29 Mar 2023 13:03	1
Batch ID: R430844 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Trip Blank	
HS23031291-03	Trip Blank	21 Mar 2023 13:00			23 Mar 2023 13:15	1
Batch ID: R430844 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23031291-01	LH18/24-SP650_032123	21 Mar 2023 13:00			23 Mar 2023 13:57	1
Batch ID: R431068 (0)	**Test Name :** CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993				**Matrix:** Water	
HS23031291-01	LH18/24-SP650_032123	21 Mar 2023 13:00			27 Mar 2023 13:00	1
Batch ID: R431099 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS23031291-01	LH18/24-SP650_032123	21 Mar 2023 13:00			27 Mar 2023 14:24	20
HS23031291-01	LH18/24-SP650_032123	21 Mar 2023 13:00			27 Mar 2023 14:19	1
Batch ID: R431158 (0)	**Test Name :** OIL & GREASE (HEM) BY E1664A				**Matrix:** Water	
HS23031291-01	LH18/24-SP650_032123	21 Mar 2023 13:00			27 Mar 2023 08:00	1
Batch ID: R431373 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS23031291-02	LH18/24-SP650_032123_AIX	21 Mar 2023 13:00			30 Mar 2023 12:23	1

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID: 191406 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-191406** Units: **mg/L** Analysis Date: **29-Mar-2023 11:18**
Client ID: Run ID: **ICPMS06_431222** SeqNo: **7201895** PrepDate: **27-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.0150	0.0100								U
Antimony	0.00125	0.00500								U
Arsenic	0.00125	0.00500								U
Barium	0.00250	0.00500								U
Beryllium	0.000500	0.00200								U
Cadmium	0.000500	0.00200								U
Calcium	1.00	0.500								U
Chromium	0.00125	0.00500								U
Cobalt	0.000500	0.00500								U
Iron	1.00	0.200								U
Lead	0.00125	0.00500								U
Magnesium	1.00	0.200								U
Manganese	0.00250	0.00500								U
Nickel	0.00125	0.00500								U
Potassium	1.00	0.200								U
Selenium	0.00250	0.00500								U
Silver	0.000500	0.00500								U
Sodium	1.00	0.200								U
Thallium	0.000500	0.00200								U
Vanadium	0.00125	0.00500								U
Zinc	0.00250	0.00500								U

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID: 191406 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-191406** Units: **mg/L** Analysis Date: **29-Mar-2023 11:20**
Client ID: Run ID: **ICPMS06_431222** SeqNo: **7201896** PrepDate: **27-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.108	0.0100	0.1	0	108	84 - 117				
Antimony	0.05056	0.00500	0.05	0	101	85 - 117				
Arsenic	0.05137	0.00500	0.05	0	103	84 - 116				
Barium	0.05041	0.00500	0.05	0	101	86 - 114				
Beryllium	0.04955	0.00200	0.05	0	99.1	83 - 121				
Cadmium	0.05126	0.00200	0.05	0	103	87 - 115				
Calcium	4.936	0.500	5	0	98.7	87 - 118				
Chromium	0.04894	0.00500	0.05	0	97.9	85 - 116				
Cobalt	0.0505	0.00500	0.05	0	101	86 - 115				
Iron	5.006	0.200	5	0	100	87 - 118				
Lead	0.05175	0.00500	0.05	0	103	88 - 115				
Magnesium	5.158	0.200	5	0	103	83 - 118				
Manganese	0.05113	0.00500	0.05	0	102	87 - 115				
Nickel	0.05216	0.00500	0.05	0	104	85 - 117				
Potassium	5.055	0.200	5	0	101	87 - 115				
Selenium	0.05161	0.00500	0.05	0	103	80 - 120				
Silver	0.05031	0.00500	0.05	0	101	85 - 116				
Sodium	5.037	0.200	5	0	101	85 - 117				
Thallium	0.04259	0.00200	0.05	0	85.2	82 - 116				
Vanadium	0.05136	0.00500	0.05	0	103	86 - 115				
Zinc	0.05347	0.00500	0.05	0	107	83 - 119				

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID: 191406 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MS Sample ID: **HS23031291-01MS** Units: **mg/L** Analysis Date: **29-Mar-2023 11:26**
Client ID: **LH18/24-SP650_032123** Run ID: **ICPMS06_431222** SeqNo: **7201899** PrepDate: **27-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1077	0.0100	0.1	0.01248	95.3	84 - 117				
Antimony	0.04838	0.00500	0.05	0.000157	96.5	85 - 117				
Arsenic	0.05142	0.00500	0.05	0.00036	102	84 - 116				
Barium	0.1398	0.00500	0.05	0.09241	94.8	86 - 114				
Beryllium	0.04862	0.00200	0.05	0.000008	97.2	83 - 121				
Cadmium	0.0476	0.00200	0.05	0.000021	95.2	87 - 115				
Calcium	17.54	0.500	5	12.49	101	87 - 118				
Chromium	0.04708	0.00500	0.05	-0.000461	95.1	85 - 116				
Cobalt	0.04796	0.00500	0.05	0.000558	94.8	86 - 115				
Iron	5.063	0.200	5	0.3163	94.9	87 - 118				
Lead	0.05208	0.00500	0.05	0.000123	104	88 - 115				
Magnesium	16.78	0.200	5	11.96	96.5	83 - 118				
Manganese	0.1124	0.00500	0.05	0.06481	95.1	87 - 115				
Nickel	0.04921	0.00500	0.05	0.003503	91.4	85 - 117				
Potassium	6.871	0.200	5	1.861	100	87 - 115				
Selenium	0.04126	0.00500	0.05	0.000444	81.6	80 - 120				
Silver	0.04547	0.00500	0.05	0.000064	90.8	85 - 116				
Sodium	547	0.200	5	550.3	-66.2	85 - 117				SEO
Thallium	0.04427	0.00200	0.05	0.000335	87.9	82 - 116				
Vanadium	0.05099	0.00500	0.05	0.000041	102	86 - 115				
Zinc	0.06032	0.00500	0.05	0.01112	98.4	83 - 119				

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID: 191406 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS23031291-01MSD** Units: **mg/L** Analysis Date: **29-Mar-2023 11:28**
Client ID: **LH18/24-SP650_032123** Run ID: **ICPMS06_431222** SeqNo: **7201900** PrepDate: **27-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1098	0.0100	0.1	0.01248	97.3	84 - 117	0.1077	1.9	20	
Antimony	0.0469	0.00500	0.05	0.000157	93.5	85 - 117	0.04838	3.1	20	
Arsenic	0.0498	0.00500	0.05	0.00036	98.9	84 - 116	0.05142	3.2	20	
Barium	0.1437	0.00500	0.05	0.09241	103	86 - 114	0.1398	2.72	20	
Beryllium	0.04957	0.00200	0.05	0.000008	99.1	83 - 121	0.04862	1.93	20	
Cadmium	0.04819	0.00200	0.05	0.000021	96.3	87 - 115	0.0476	1.22	20	
Calcium	17.38	0.500	5	12.49	97.8	87 - 118	17.54	0.931	20	
Chromium	0.04588	0.00500	0.05	-0.000461	92.7	85 - 116	0.04708	2.59	20	
Cobalt	0.04621	0.00500	0.05	0.000558	91.3	86 - 115	0.04796	3.71	20	
Iron	4.922	0.200	5	0.3163	92.1	87 - 118	5.063	2.82	20	
Lead	0.05106	0.00500	0.05	0.000123	102	88 - 115	0.05208	1.99	20	
Magnesium	16.74	0.200	5	11.96	95.7	83 - 118	16.78	0.259	20	
Manganese	0.1111	0.00500	0.05	0.06481	92.6	87 - 115	0.1124	1.14	20	
Nickel	0.04854	0.00500	0.05	0.003503	90.1	85 - 117	0.04921	1.39	20	
Potassium	6.758	0.200	5	1.861	97.9	87 - 115	6.871	1.67	20	
Silver	0.04569	0.00500	0.05	0.000064	91.2	85 - 116	0.04547	0.472	20	
Sodium	544.7	0.200	5	550.3	-112	85 - 117	547	0.42	20	SEO
Thallium	0.0441	0.00200	0.05	0.000335	87.5	82 - 116	0.04427	0.387	20	
Vanadium	0.04966	0.00500	0.05	0.000041	99.2	86 - 115	0.05099	2.63	20	
Zinc	0.05873	0.00500	0.05	0.01112	95.2	83 - 119	0.06032	2.68	20	

MSD Sample ID: **HS23031291-01MSD** Units: **mg/L** Analysis Date: **29-Mar-2023 11:35**
Client ID: **LH18/24-SP650_032123** Run ID: **ICPMS06_431222** SeqNo: **7201903** PrepDate: **27-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	0.04086	0.00500	0.05	0	81.7	80 - 120	0.04126	0.972	20	

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID: 191406 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS23031291-01PDS** Units: **mg/L** Analysis Date: **29-Mar-2023 11:30**
Client ID: **LH18/24-SP650_032123** Run ID: **ICPMS06_431222** SeqNo: **7201901** PrepDate: **27-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1165	0.0100	0.1	0.01248	104	80 - 120				
Antimony	0.09728	0.00500	0.1	0.000157	97.1	80 - 120				
Arsenic	0.104	0.00500	0.1	0.00036	104	80 - 120				
Barium	0.1939	0.00500	0.1	0.09241	102	80 - 120				
Beryllium	0.1066	0.00200	0.1	0.000008	107	80 - 120				
Cadmium	0.1006	0.00200	0.1	0.000021	101	80 - 120				
Calcium	22.17	0.500	10	12.49	96.8	80 - 120				
Chromium	0.098	0.00500	0.1	-0.000461	98.5	80 - 120				
Cobalt	0.09723	0.00500	0.1	0.000558	96.7	80 - 120				
Iron	10.11	0.200	10	0.3163	98.0	80 - 120				
Lead	0.1022	0.00500	0.1	0.000123	102	80 - 120				
Magnesium	22.17	0.200	10	11.96	102	80 - 120				
Manganese	0.1667	0.00500	0.1	0.06481	102	80 - 120				
Nickel	0.0999	0.00500	0.1	0.003503	96.4	80 - 120				
Potassium	12.34	0.200	10	1.861	105	80 - 120				
Selenium	0.1046	0.00500	0.1	0.000444	104	80 - 120				
Thallium	0.1042	0.00200	0.1	0.000335	104	80 - 120				
Vanadium	0.1051	0.00500	0.1	0.000041	105	80 - 120				
Zinc	0.1105	0.00500	0.1	0.01112	99.4	80 - 120				

PDS Sample ID: **HS23031291-01PDS** Units: **mg/L** Analysis Date: **29-Mar-2023 11:49**
Client ID: **LH18/24-SP650_032123** Run ID: **ICPMS06_431222** SeqNo: **7201965** PrepDate: **27-Mar-2023** DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	1066	10.0	500	573.7	98.4	80 - 120				

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID: 191406 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS23031291-01SD** Units: **mg/L** Analysis Date: **29-Mar-2023 11:24**
Client ID: **LH18/24-SP650_032123** Run ID: **ICPMS06_431222** SeqNo: **7201898** PrepDate: **27-Mar-2023** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.0115	0.0500					0.01248	0	10	J
Antimony	0.00625	0.0250					0.000157	0	10	U
Arsenic	0.00625	0.0250					0.00036	0	10	U
Barium	0.08856	0.0250					0.09241	4.16	10	
Beryllium	0.00250	0.0100					0.000008	0	10	U
Cadmium	0.00250	0.0100					0.000021	0	10	U
Calcium	12.31	2.50					12.49	1.46	10	
Chromium	0.00625	0.0250					-0.000461	0	10	U
Cobalt	0.000542	0.0250					0.000558	0	10	J
Iron	0.3231	1.00					0.3163	0	10	J
Lead	0.00625	0.0250					0.000123	0	10	U
Magnesium	11.96	1.00					11.96	0.00394	10	
Manganese	0.06475	0.0250					0.06481	0.0849	10	
Nickel	0.003189	0.0250					0.003503	0	10	J
Potassium	1.851	1.00					1.861	0.527	10	
Selenium	0.0125	0.0250					0.000444	0	10	U
Silver	0.00250	0.0250					0.000064	0	10	U
Thallium	0.00250	0.0100					0.000335	0	10	U
Vanadium	0.00625	0.0250					0.000041	0	10	U
Zinc	0.01185	0.0250					0.01112	0	10	J

SD Sample ID: **HS23031291-01SD** Units: **mg/L** Analysis Date: **29-Mar-2023 11:47**
Client ID: **LH18/24-SP650_032123** Run ID: **ICPMS06_431222** SeqNo: **7201964** PrepDate: **27-Mar-2023** DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Sodium	579.8	50.0					573.7	1.06	10	

The following samples were analyzed in this batch: HS23031291-01

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID: 191507 (0) **Instrument: HG04** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-191507** Units: **mg/L** Analysis Date: **29-Mar-2023 13:00**
Client ID: Run ID: **HG04_431249** SeqNo: **7202355** PrepDate: **29-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.000100	0.000200								U

LCS Sample ID: **LCS-191507** Units: **mg/L** Analysis Date: **29-Mar-2023 13:02**
Client ID: Run ID: **HG04_431249** SeqNo: **7202356** PrepDate: **29-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00527	0.000200	0.005	0	105	82 - 119				

MS Sample ID: **HS23031294-01MS** Units: **mg/L** Analysis Date: **29-Mar-2023 13:07**
Client ID: Run ID: **HG04_431249** SeqNo: **7202359** PrepDate: **29-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00528	0.000200	0.005	0.000004000	106	82 - 119				

MSD Sample ID: **HS23031294-01MSD** Units: **mg/L** Analysis Date: **29-Mar-2023 13:08**
Client ID: Run ID: **HG04_431249** SeqNo: **7202360** PrepDate: **29-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00535	0.000200	0.005	0.000004000	107	82 - 119	0.005280	1.32	20	

The following samples were analyzed in this batch: HS23031291-01

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID: 191255 (0) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-191255** Units: **ug/L** Analysis Date: **30-Mar-2023 13:29**
Client ID: Run ID: **SV-6_431416** SeqNo: **7206036** PrepDate: **24-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.0050	0.030								U
Surr: 2-Fluorobiphenyl	*0.08506*	*0*	*0.08*	*0*	*106*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.08248*	*0*	*0.08*	*0*	*103*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.07096*	*0*	*0.08*	*0*	*88.7*	*40 - 140*				

LCS Sample ID: **LCS-191255** Units: **ug/L** Analysis Date: **30-Mar-2023 13:47**
Client ID: Run ID: **SV-6_431416** SeqNo: **7206037** PrepDate: **24-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.06655	0.030	0.08	0	83.2	40 - 140				
Surr: 2-Fluorobiphenyl	*0.08091*	*0*	*0.08*	*0*	*101*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.08731*	*0*	*0.08*	*0*	*109*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.08457*	*0*	*0.08*	*0*	*106*	*40 - 140*				

LCSD Sample ID: **LCSD-191255** Units: **ug/L** Analysis Date: **30-Mar-2023 14:05**
Client ID: Run ID: **SV-6_431416** SeqNo: **7206038** PrepDate: **24-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.06461	0.030	0.08	0	80.8	40 - 140	0.06655	2.96	20	
Surr: 2-Fluorobiphenyl	*0.08791*	*0*	*0.08*	*0*	*110*	*40 - 140*	*0.08091*	*8.29*	*20*	
Surr: 4-Terphenyl-d14	*0.08675*	*0*	*0.08*	*0*	*108*	*40 - 140*	*0.08731*	*0.639*	*20*	
Surr: Nitrobenzene-d5	*0.08762*	*0*	*0.08*	*0*	*110*	*40 - 140*	*0.08457*	*3.54*	*20*	

The following samples were analyzed in this batch: HS23031291-01

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID: R430844 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230323** Units: **ug/L** Analysis Date: **23-Mar-2023 12:33**
Client ID: Run ID: **VOA6_430844** SeqNo: **7192081** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0								U
1,1,1-Trichloroethane	1.0	1.0								U
1,1,2,2-Tetrachloroethane	1.0	1.0								U
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,1-Dichloropropene	1.0	1.0								U
1,2,3-Trichlorobenzene	1.0	1.0								U
1,2,3-Trichloropropane	1.0	1.0								U
1,2,4-Trichlorobenzene	1.0	1.0								U
1,2,4-Trimethylbenzene	1.0	1.0								U
1,2-Dibromo-3-chloropropane	1.0	1.0								U
1,2-Dibromoethane	1.0	1.0								U
1,2-Dichlorobenzene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
1,2-Dichloropropane	1.0	1.0								U
1,3,5-Trimethylbenzene	1.0	1.0								U
1,3-Dichlorobenzene	1.0	1.0								U
1,3-Dichloropropane	1.0	1.0								U
1,4-Dichlorobenzene	1.0	1.0								U
2,2-Dichloropropane	1.0	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	1.0	1.0								U
2-Hexanone	1.0	2.0								U
4-Chlorotoluene	1.0	1.0								U
4-Isopropyltoluene	1.0	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	1.0	2.0								U
Benzene	1.0	1.0								U
Bromobenzene	1.0	1.0								U
Bromochloromethane	1.0	1.0								U
Bromodichloromethane	1.0	1.0								U
Bromoform	1.0	1.0								U
Bromomethane	1.0	1.0								U

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID: R430844 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230323** Units: **ug/L** Analysis Date: **23-Mar-2023 12:33**
Client ID: Run ID: **VOA6_430844** SeqNo: **7192081** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	1.0	2.0								U
Carbon tetrachloride	1.0	1.0								U
Chlorobenzene	1.0	1.0								U
Chloroethane	1.0	1.0								U
Chloroform	1.0	1.0								U
Chloromethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
cis-1,3-Dichloropropene	1.0	1.0								U
Dibromochloromethane	1.0	1.0								U
Dibromomethane	1.0	1.0								U
Dichlorodifluoromethane	1.0	1.0								U
Ethylbenzene	1.0	1.0								U
Hexachlorobutadiene	1.0	1.0								U
Isopropylbenzene	1.0	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	1.0	2.0								U
Naphthalene	1.0	1.0								U
n-Butylbenzene	1.0	1.0								U
n-Propylbenzene	1.0	1.0								U
o-Xylene	1.0	1.0								U
sec-Butylbenzene	1.0	1.0								U
Styrene	1.0	1.0								U
tert-Butylbenzene	1.0	1.0								U
Tetrachloroethene	1.0	1.0								U
Toluene	1.0	1.0								U
trans-1,2-Dichloroethene	1.0	1.0								U
trans-1,3-Dichloropropene	1.0	1.0								U
Trichloroethene	1.0	1.0								U
Trichlorofluoromethane	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*41.11*	*1.0*	*50*	*0*	*82.2*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*49.06*	*1.0*	*50*	*0*	*98.1*	*85 - 114*				
Surr: Dibromofluoromethane	*43.75*	*1.0*	*50*	*0*	*87.5*	*80 - 119*				
Surr: Toluene-d8	*54.08*	*1.0*	*50*	*0*	*108*	*89 - 112*				

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID: R430844 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230323** Units: **ug/L** Analysis Date: **23-Mar-2023 11:50**
Client ID: Run ID: **VOA6_430844** SeqNo: **7192080** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.99	1.0	20	0	105	78 - 124				
1,1,1-Trichloroethane	18.76	1.0	20	0	93.8	74 - 131				
1,1,2,2-Tetrachloroethane	22.26	1.0	20	0	111	71 - 121				
1,1,2-Trichloroethane	21	1.0	20	0	105	80 - 119				
1,1-Dichloroethane	18.61	1.0	20	0	93.1	77 - 125				
1,1-Dichloroethene	17.17	1.0	20	0	85.9	71 - 131				
1,1-Dichloropropene	18.32	1.0	20	0	91.6	78 - 125				
1,2,3-Trichlorobenzene	20.07	1.0	20	0	100	69 - 129				
1,2,3-Trichloropropane	21.84	1.0	20	0	109	73 - 122				
1,2,4-Trichlorobenzene	20.14	1.0	20	0	101	69 - 130				
1,2,4-Trimethylbenzene	20.05	1.0	20	0	100	76 - 124				
1,2-Dibromo-3-chloropropane	22.86	1.0	20	0	114	62 - 128				
1,2-Dibromoethane	22.16	1.0	20	0	111	77 - 121				
1,2-Dichlorobenzene	21.18	1.0	20	0	106	80 - 119				
1,2-Dichloroethane	20.64	1.0	20	0	103	73 - 128				
1,2-Dichloropropane	20.25	1.0	20	0	101	78 - 122				
1,3,5-Trimethylbenzene	19.36	1.0	20	0	96.8	75 - 124				
1,3-Dichlorobenzene	19.9	1.0	20	0	99.5	80 - 119				
1,3-Dichloropropane	21.68	1.0	20	0	108	80 - 119				
1,4-Dichlorobenzene	19.95	1.0	20	0	99.8	79 - 118				
2,2-Dichloropropane	19.63	1.0	20	0	98.2	60 - 139				
2-Butanone	38.97	2.0	40	0	97.4	56 - 143				
2-Chlorotoluene	20.19	1.0	20	0	101	79 - 122				
2-Hexanone	44.37	2.0	40	0	111	57 - 139				
4-Chlorotoluene	20.56	1.0	20	0	103	78 - 122				
4-Isopropyltoluene	18.21	1.0	20	0	91.0	77 - 127				
4-Methyl-2-pentanone	44.92	2.0	40	0	112	67 - 130				
Acetone	37.9	2.0	40	0	94.7	39 - 160				
Benzene	19.82	1.0	20	0	99.1	79 - 120				
Bromobenzene	21.44	1.0	20	0	107	80 - 120				
Bromochloromethane	19.28	1.0	20	0	96.4	78 - 123				
Bromodichloromethane	20.72	1.0	20	0	104	79 - 125				
Bromoform	22.8	1.0	20	0	114	66 - 130				
Bromomethane	20.93	1.0	20	0	105	53 - 141				

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID: R430844 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230323** Units: **ug/L** Analysis Date: **23-Mar-2023 11:50**
Client ID: Run ID: **VOA6_430844** SeqNo: **7192080** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	33.54	2.0	40	0	83.9	64 - 133				
Carbon tetrachloride	18.13	1.0	20	0	90.6	72 - 136				
Chlorobenzene	20.62	1.0	20	0	103	82 - 118				
Chloroethane	16.54	1.0	20	0	82.7	60 - 138				
Chloroform	18.43	1.0	20	0	92.1	79 - 124				
Chloromethane	20.23	1.0	20	0	101	50 - 139				
cis-1,2-Dichloroethene	18.7	1.0	20	0	93.5	78 - 123				
cis-1,3-Dichloropropene	20.67	1.0	20	0	103	75 - 124				
Dibromochloromethane	21.06	1.0	20	0	105	74 - 126				
Dibromomethane	21.12	1.0	20	0	106	79 - 123				
Dichlorodifluoromethane	18.16	1.0	20	0	90.8	32 - 152				
Ethylbenzene	19.59	1.0	20	0	98.0	79 - 121				
Hexachlorobutadiene	18.36	1.0	20	0	91.8	66 - 134				
Isopropylbenzene	18.59	1.0	20	0	93.0	72 - 131				
m,p-Xylene	39.81	2.0	40	0	99.5	80 - 121				
Methylene chloride	19.41	2.0	20	0	97.0	74 - 124				
Naphthalene	21.65	1.0	20	0	108	61 - 128				
n-Butylbenzene	18.22	1.0	20	0	91.1	75 - 128				
n-Propylbenzene	18.81	1.0	20	0	94.1	76 - 126				
o-Xylene	20.25	1.0	20	0	101	78 - 122				
sec-Butylbenzene	17.29	1.0	20	0	86.5	77 - 126				
Styrene	21.56	1.0	20	0	108	78 - 123				
tert-Butylbenzene	18.6	1.0	20	0	93.0	78 - 124				
Tetrachloroethene	19.21	1.0	20	0	96.0	74 - 129				
Toluene	20.85	1.0	20	0	104	80 - 121				
trans-1,2-Dichloroethene	18.83	1.0	20	0	94.1	75 - 124				
trans-1,3-Dichloropropene	21.52	1.0	20	0	108	73 - 127				
Trichloroethene	19.49	1.0	20	0	97.5	79 - 123				
Trichlorofluoromethane	17.45	1.0	20	0	87.3	65 - 141				
Vinyl chloride	18.11	1.0	20	0	90.5	58 - 137				
Surr: 1,2-Dichloroethane-d4	*45.45*	*1.0*	*50*	*0*	*90.9*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*49.74*	*1.0*	*50*	*0*	*99.5*	*85 - 114*				
Surr: Dibromofluoromethane	*48.48*	*1.0*	*50*	*0*	*97.0*	*80 - 119*				
Surr: Toluene-d8	*48.54*	*1.0*	*50*	*0*	*97.1*	*89 - 112*				

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID: R430844 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23031291-01MS** Units: **ug/L** Analysis Date: **23-Mar-2023 15:00**
Client ID: **LH18/24-SP650_032123** Run ID: **VOA6_430844** SeqNo: **7192088** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	18.01	1.0	20	0	90.0	78 - 124				
1,1,1-Trichloroethane	16.77	1.0	20	0	83.9	74 - 131				
1,1,2,2-Tetrachloroethane	17.56	1.0	20	0	87.8	71 - 121				
1,1,2-Trichloroethane	17.27	1.0	20	0	86.3	80 - 119				
1,1-Dichloroethane	14.96	1.0	20	0	74.8	77 - 125				S
1,1-Dichloroethene	16.73	1.0	20	0	83.6	71 - 131				
1,1-Dichloropropene	18.71	1.0	20	0	93.5	78 - 125				
1,2,3-Trichlorobenzene	18.72	1.0	20	0	93.6	69 - 129				
1,2,3-Trichloropropane	17.3	1.0	20	0	86.5	73 - 122				
1,2,4-Trichlorobenzene	19.19	1.0	20	0	95.9	69 - 130				
1,2,4-Trimethylbenzene	20.25	1.0	20	0	101	76 - 124				
1,2-Dibromo-3-chloropropane	18.84	1.0	20	0	94.2	62 - 128				
1,2-Dibromoethane	18.26	1.0	20	0	91.3	77 - 121				
1,2-Dichlorobenzene	19.08	1.0	20	0	95.4	80 - 119				
1,2-Dichloroethane	15.76	1.0	20	0	78.8	73 - 128				
1,2-Dichloropropane	15.89	1.0	20	0	79.4	78 - 122				
1,3,5-Trimethylbenzene	20.5	1.0	20	0	102	75 - 124				
1,3-Dichlorobenzene	19.01	1.0	20	0	95.1	80 - 119				
1,3-Dichloropropane	17.92	1.0	20	0	89.6	80 - 119				
1,4-Dichlorobenzene	18.63	1.0	20	0	93.2	79 - 118				
2,2-Dichloropropane	16.69	1.0	20	0	83.4	60 - 139				
2-Butanone	25.45	2.0	40	0	63.6	56 - 143				
2-Chlorotoluene	19.49	1.0	20	0	97.5	79 - 122				
2-Hexanone	33.05	2.0	40	0	82.6	57 - 139				
4-Chlorotoluene	19.39	1.0	20	0	96.9	78 - 122				
4-Isopropyltoluene	21.84	1.0	20	0	109	77 - 127				
4-Methyl-2-pentanone	35.29	2.0	40	0	88.2	67 - 130				
Acetone	20.09	2.0	40	0	50.2	39 - 160				
Benzene	16.68	1.0	20	0	83.4	79 - 120				
Bromobenzene	18.67	1.0	20	0	93.4	80 - 120				
Bromochloromethane	13.81	1.0	20	0	69.0	78 - 123				S
Bromodichloromethane	15.76	1.0	20	0	78.8	79 - 125				S
Bromoform	18.21	1.0	20	0	91.1	66 - 130				
Bromomethane	13.6	1.0	20	0	68.0	53 - 141				

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID: R430844 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23031291-01MS** Units: **ug/L** Analysis Date: **23-Mar-2023 15:00**
Client ID: **LH18/24-SP650_032123** Run ID: **VOA6_430844** SeqNo: **7192088** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	33.03	2.0	40	0	82.6	64 - 133				
Carbon tetrachloride	19.9	1.0	20	0	99.5	72 - 136				
Chlorobenzene	18.5	1.0	20	0	92.5	82 - 118				
Chloroethane	14.05	1.0	20	0	70.2	60 - 138				
Chloroform	14.16	1.0	20	0	70.8	79 - 124				S
Chloromethane	17.24	1.0	20	0	86.2	50 - 139				
cis-1,2-Dichloroethene	16.06	1.0	20	0.8747	75.9	78 - 123				S
cis-1,3-Dichloropropene	15.64	1.0	20	0	78.2	75 - 124				
Dibromochloromethane	17.45	1.0	20	0	87.2	74 - 126				
Dibromomethane	15.96	1.0	20	0	79.8	79 - 123				
Dichlorodifluoromethane	18.39	1.0	20	0	91.9	32 - 152				
Ethylbenzene	19.42	1.0	20	0	97.1	79 - 121				
Hexachlorobutadiene	24.32	1.0	20	0	122	66 - 134				
Isopropylbenzene	20.7	1.0	20	0	103	72 - 131				
m,p-Xylene	39.47	2.0	40	0	98.7	80 - 121				
Methylene chloride	13.96	2.0	20	0	69.8	74 - 124				S
Naphthalene	18.87	1.0	20	0	94.3	61 - 128				
n-Butylbenzene	22.34	1.0	20	0	112	75 - 128				
n-Propylbenzene	21.04	1.0	20	0	105	76 - 126				
o-Xylene	19.18	1.0	20	0	95.9	78 - 122				
sec-Butylbenzene	21.84	1.0	20	0	109	77 - 126				
Styrene	19.22	1.0	20	0	96.1	78 - 123				
tert-Butylbenzene	21.92	1.0	20	0	110	78 - 124				
Tetrachloroethene	22.32	1.0	20	0	112	74 - 129				
Toluene	19.28	1.0	20	0	96.4	80 - 121				
trans-1,2-Dichloroethene	15.93	1.0	20	0	79.6	75 - 124				
trans-1,3-Dichloropropene	15.92	1.0	20	0	79.6	73 - 127				
Trichloroethene	18.51	1.0	20	0	92.5	79 - 123				
Trichlorofluoromethane	18.61	1.0	20	0	93.1	65 - 141				
Vinyl chloride	16.57	1.0	20	0	82.9	58 - 137				
Surr: 1,2-Dichloroethane-d4	*40.25*	*1.0*	*50*	*0*	*80.5*	*81 - 118*				S
Surr: 4-Bromofluorobenzene	*49.62*	*1.0*	*50*	*0*	*99.2*	*85 - 114*				
Surr: Dibromofluoromethane	*43.15*	*1.0*	*50*	*0*	*86.3*	*80 - 119*				
Surr: Toluene-d8	*53.23*	*1.0*	*50*	*0*	*106*	*89 - 112*				

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID: R430844 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23031291-01MSD** Units: **ug/L** Analysis Date: **23-Mar-2023 15:21**
Client ID: **LH18/24-SP650_032123** Run ID: **VOA6_430844** SeqNo: **7192089** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.31	1.0	20	0	102	78 - 124	18.01	12	20	
1,1,1-Trichloroethane	18.75	1.0	20	0	93.8	74 - 131	16.77	11.2	20	
1,1,2,2-Tetrachloroethane	18.9	1.0	20	0	94.5	71 - 121	17.56	7.31	20	
1,1,2-Trichloroethane	19.63	1.0	20	0	98.1	80 - 119	17.27	12.8	20	
1,1-Dichloroethane	17.5	1.0	20	0	87.5	77 - 125	14.96	15.6	20	
1,1-Dichloroethene	19.74	1.0	20	0	98.7	71 - 131	16.73	16.5	20	
1,1-Dichloropropene	21.3	1.0	20	0	107	78 - 125	18.71	13	20	
1,2,3-Trichlorobenzene	21.34	1.0	20	0	107	69 - 129	18.72	13	20	
1,2,3-Trichloropropane	18.25	1.0	20	0	91.3	73 - 122	17.3	5.38	20	
1,2,4-Trichlorobenzene	22.3	1.0	20	0	112	69 - 130	19.19	15	20	
1,2,4-Trimethylbenzene	22.88	1.0	20	0	114	76 - 124	20.25	12.2	20	
1,2-Dibromo-3-chloropropane	18.56	1.0	20	0	92.8	62 - 128	18.84	1.52	20	
1,2-Dibromoethane	20.19	1.0	20	0	101	77 - 121	18.26	10	20	
1,2-Dichlorobenzene	21.57	1.0	20	0	108	80 - 119	19.08	12.2	20	
1,2-Dichloroethane	18.81	1.0	20	0	94.1	73 - 128	15.76	17.7	20	
1,2-Dichloropropane	18.84	1.0	20	0	94.2	78 - 122	15.89	17	20	
1,3,5-Trimethylbenzene	23.13	1.0	20	0	116	75 - 124	20.5	12.1	20	
1,3-Dichlorobenzene	21.8	1.0	20	0	109	80 - 119	19.01	13.6	20	
1,3-Dichloropropane	19.89	1.0	20	0	99.4	80 - 119	17.92	10.4	20	
1,4-Dichlorobenzene	20.61	1.0	20	0	103	79 - 118	18.63	10.1	20	
2,2-Dichloropropane	18.92	1.0	20	0	94.6	60 - 139	16.69	12.6	20	
2-Butanone	27.2	2.0	40	0	68.0	56 - 143	25.45	6.67	20	
2-Chlorotoluene	22.22	1.0	20	0	111	79 - 122	19.49	13.1	20	
2-Hexanone	35.47	2.0	40	0	88.7	57 - 139	33.05	7.07	20	
4-Chlorotoluene	22.48	1.0	20	0	112	78 - 122	19.39	14.8	20	
4-Isopropyltoluene	25.11	1.0	20	0	126	77 - 127	21.84	13.9	20	
4-Methyl-2-pentanone	36.75	2.0	40	0	91.9	67 - 130	35.29	4.05	20	
Acetone	20.95	2.0	40	0	52.4	39 - 160	20.09	4.23	20	
Benzene	19.62	1.0	20	0	98.1	79 - 120	16.68	16.2	20	
Bromobenzene	21.2	1.0	20	0	106	80 - 120	18.67	12.6	20	
Bromochloromethane	16.09	1.0	20	0	80.4	78 - 123	13.81	15.2	20	
Bromodichloromethane	18.79	1.0	20	0	94.0	79 - 125	15.76	17.6	20	
Bromoform	19.75	1.0	20	0	98.8	66 - 130	18.21	8.12	20	
Bromomethane	15.29	1.0	20	0	76.5	53 - 141	13.6	11.7	20	

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID: R430844 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23031291-01MSD** Units: **ug/L** Analysis Date: **23-Mar-2023 15:21**
Client ID: **LH18/24-SP650_032123** Run ID: **VOA6_430844** SeqNo: **7192089** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	37.65	2.0	40	0	94.1	64 - 133	33.03	13.1	20	
Carbon tetrachloride	22.28	1.0	20	0	111	72 - 136	19.9	11.3	20	
Chlorobenzene	21.44	1.0	20	0	107	82 - 118	18.5	14.7	20	
Chloroethane	14.67	1.0	20	0	73.3	60 - 138	14.05	4.32	20	
Chloroform	16.85	1.0	20	0	84.2	79 - 124	14.16	17.3	20	
Chloromethane	20.76	1.0	20	0	104	50 - 139	17.24	18.5	20	
cis-1,2-Dichloroethene	18.45	1.0	20	0.8747	87.9	78 - 123	16.06	13.8	20	
cis-1,3-Dichloropropene	18.98	1.0	20	0	94.9	75 - 124	15.64	19.3	20	
Dibromochloromethane	19.85	1.0	20	0	99.2	74 - 126	17.45	12.9	20	
Dibromomethane	18.48	1.0	20	0	92.4	79 - 123	15.96	14.7	20	
Dichlorodifluoromethane	19.26	1.0	20	0	96.3	32 - 152	18.39	4.64	20	
Ethylbenzene	22.2	1.0	20	0	111	79 - 121	19.42	13.3	20	
Hexachlorobutadiene	27.2	1.0	20	0	136	66 - 134	24.32	11.2	20	S
Isopropylbenzene	23.5	1.0	20	0	117	72 - 131	20.7	12.7	20	
m,p-Xylene	44.76	2.0	40	0	112	80 - 121	39.47	12.6	20	
Methylene chloride	16.92	2.0	20	0	84.6	74 - 124	13.96	19.2	20	
Naphthalene	20.47	1.0	20	0	102	61 - 128	18.87	8.14	20	
n-Butylbenzene	26.12	1.0	20	0	131	75 - 128	22.34	15.6	20	S
n-Propylbenzene	23.7	1.0	20	0	119	76 - 126	21.04	11.9	20	
o-Xylene	21.58	1.0	20	0	108	78 - 122	19.18	11.8	20	
sec-Butylbenzene	24.73	1.0	20	0	124	77 - 126	21.84	12.4	20	
Styrene	22.14	1.0	20	0	111	78 - 123	19.22	14.1	20	
tert-Butylbenzene	24.24	1.0	20	0	121	78 - 124	21.92	10.1	20	
Tetrachloroethene	24.99	1.0	20	0	125	74 - 129	22.32	11.3	20	
Toluene	22.11	1.0	20	0	111	80 - 121	19.28	13.7	20	
trans-1,2-Dichloroethene	18.2	1.0	20	0	91.0	75 - 124	15.93	13.3	20	
trans-1,3-Dichloropropene	18.9	1.0	20	0	94.5	73 - 127	15.92	17.1	20	
Trichloroethene	20.72	1.0	20	0	104	79 - 123	18.51	11.3	20	
Trichlorofluoromethane	20.31	1.0	20	0	102	65 - 141	18.61	8.72	20	
Vinyl chloride	18.4	1.0	20	0	92.0	58 - 137	16.57	10.4	20	
Surr: 1,2-Dichloroethane-d4	*39.96*	*1.0*	*50*	*0*	*79.9*	*81 - 118*	*40.25*	*0.709*	*20*	S
Surr: 4-Bromofluorobenzene	*49.59*	*1.0*	*50*	*0*	*99.2*	*85 - 114*	*49.62*	*0.0436*	*20*	
Surr: Dibromofluoromethane	*42.74*	*1.0*	*50*	*0*	*85.5*	*80 - 119*	*43.15*	*0.943*	*20*	
Surr: Toluene-d8	*52.74*	*1.0*	*50*	*0*	*105*	*89 - 112*	*53.23*	*0.923*	*20*	

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID:	R430844 (0)	Instrument:	VOA6	Method:	VOLATILES ORGANICS BY METHOD 8260C

The following samples were analyzed in this batch: HS23031291-01 HS23031291-03

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID: R431068 (0) **Instrument:** WetChem_HS **Method:** CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993

MBLK Sample ID: **MBLK-R431068** Units: **mg/L** Analysis Date: **27-Mar-2023 13:00**
Client ID: Run ID: **WetChem_HS_431068** SeqNo: **7197687** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	7.50	15.0								U

LCS Sample ID: **LCS-R431068** Units: **mg/L** Analysis Date: **27-Mar-2023 13:00**
Client ID: Run ID: **WetChem_HS_431068** SeqNo: **7197686** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	99	15.0	100	0	99.0	85 - 115				

MS Sample ID: **HS23031129-02MS** Units: **mg/L** Analysis Date: **27-Mar-2023 13:00**
Client ID: Run ID: **WetChem_HS_431068** SeqNo: **7197689** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	76	15.0	50	26	100	80 - 120				

MSD Sample ID: **HS23031129-02MSD** Units: **mg/L** Analysis Date: **27-Mar-2023 13:00**
Client ID: Run ID: **WetChem_HS_431068** SeqNo: **7197688** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	74	15.0	50	26	96.0	80 - 120	76	2.67	20	

The following samples were analyzed in this batch: HS23031291-01

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID: R431099 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **27-Mar-2023 12:46**
Client ID: Run ID: **ICS-Integrion_431099** SeqNo: **7198775** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.250	0.500								U
Sulfate	0.250	0.500								U

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **27-Mar-2023 12:57**
Client ID: Run ID: **ICS-Integrion_431099** SeqNo: **7198776** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.44	0.500	20	0	102	80 - 120				
Sulfate	20.88	0.500	20	0	104	80 - 120				

MS Sample ID: **HS23031330-10MS** Units: **mg/L** Analysis Date: **27-Mar-2023 16:09**
Client ID: Run ID: **ICS-Integrion_431099** SeqNo: **7198803** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	104.8	0.500	10	99	57.6	80 - 120				SEO
Sulfate	107.6	0.500	10	99.89	77.2	80 - 120				SEO

MSD Sample ID: **HS23031330-10MSD** Units: **mg/L** Analysis Date: **27-Mar-2023 16:15**
Client ID: Run ID: **ICS-Integrion_431099** SeqNo: **7198804** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	105.8	0.500	10	99	67.9	80 - 120	104.8	0.984	20	SEO
Sulfate	109	0.500	10	99.89	90.8	80 - 120	107.6	1.25	20	EO

The following samples were analyzed in this batch: HS23031291-01

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

QC BATCH REPORT

Batch ID: R431158 (0) **Instrument: Balance1** **Method: OIL & GREASE (HEM) BY E1664A**

MBLK Sample ID: **WBLKW-032723** Units: **mg/L** Analysis Date: **27-Mar-2023 08:00**
Client ID: Run ID: **Balance1_431158** SeqNo: **7200135** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	1.00	2.00								U

LCS Sample ID: **WLCSW-032723** Units: **mg/L** Analysis Date: **27-Mar-2023 08:00**
Client ID: Run ID: **Balance1_431158** SeqNo: **7200137** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	40.3	2.00	40	0	101	78 - 114				

LCSD Sample ID: **WLCSDW-032723** Units: **mg/L** Analysis Date: **27-Mar-2023 08:00**
Client ID: Run ID: **Balance1_431158** SeqNo: **7200136** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	43.7	2.00	40	0	109	78 - 114	40.3	8.1	18	

MS Sample ID: **HS23031245-01MS** Units: **mg/L** Analysis Date: **27-Mar-2023 08:00**
Client ID: Run ID: **Balance1_431158** SeqNo: **7200119** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	43.3	2.00	40	1.667	104	78 - 114				

The following samples were analyzed in this batch: HS23031291-01

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: **HS23031291**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

ALS Houston, US Date: 31-Mar-23

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
California	2919 2022-2023	30-Apr-2023
Dept of Defense	L21-682	31-Dec-2023
Florida	E87611-36	30-Jun-2023
Illinois	2000322022-9	09-May-2023
Kansas	E-10352; 2022-2023	31-Jul-2023
Kentucky	123043, 2022-2023	30-Apr-2023
Louisiana	03087, 2022-2023	30-Jun-2023
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2022-2023	30-Apr-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-22-29	30-Apr-2023
Utah	TX026932022-13	31-Jul-2023

01184226

ALS Houston, US Date: 31-Mar-23

Sample Receipt Checklist

Work Order ID: HS23031291 **Date/Time Received:** 22-Mar-2023 10:00

Client Name: Bhate Environmental **Received by:** Paresh M. Giga

Completed By:	/S/ Jared R. Makan	22-Mar-2023 20:49	**Reviewed by:**		
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **Water** Carrier name: **FedEx Priority Overnight**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:-
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	1.4°C/0.9°C UC/C	IR31
Cooler(s)/Kit(s):	43798	
Date/Time sample(s) sent to storage:	03/22/2023 20:55	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd., Suite 210 Houston, Tx. 77099 ATTN: Dane Wacasey

Project: BHATE
LONGHORN ARMY AMMN. PLANT (LHAAP)
GROUNDWATER TREATMENT PLANT (GWTP)
KARNACK, TEXAS

Project No. NWO1312.0150.0 16.0001

Job: GROUNDWATER TREATMENT PLANT QUARTERLY EFFLUENT SAMPLES

Prepared By: Scott Beesinger

P. O. Number

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analyses: ROD Volatiles	Total Metals	Oil & Grease	Chemical Oxygen Demand	Chloride & Sulfate	1, 4 - DIOXANE	PERCHLORATE				Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_032123	Water	03/21/23 / 13:00		4	3		1								HCL	
LH18/24-SP650_032123	Water	03/21/23 / 13:00		1		1									HNO3	
LH18/24-SP650_032123	Water	03/21/23 / 13:00		2					1	1					NONE	
LH18/24-SP650_032123	Water	03/21/23 / 13:00		1				1							H2SO4	
LH18/24-SP650_032123_AIX	Water	03/21/23 / 13:00		1							1				NONE	
Trip Blank	Water	03/21/23		2	2										HCL	

Additional Remarks: **Standard TAT**

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	03/21/23	13:30		3/22/23	10:30						

For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition
43798 1.4° C -4131									

Remarks: Cl(-2)

HS23031291

Bhate Environmental Associates, Inc.
Groundwater Treatment Plant Quarterly Effluent Sar

01184228

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

43798

CUSTODY SEAL

Date: 3/21/23 Time: 1330
Name: Scott Beesinger
Company: BHATE

Seal Broken By: Sony
Date: 03/22/23

43798 Mar 22 2023

43798

ORIGIN ID:SGRA (903) 930-6193
SCOTT BEESINGER
BHATE ENVIRONMENTAL ASSOCIATES
1203-B EAST GRAND AVE.
MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 09MAR23
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3702

TO SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: PERCH - 91462 - DW

FedEx Express
E

FedEx 6230 2996 1150
WED - 22 MAR AA
PRIORITY OVERNIGHT

AB SGRA
77099
TX-US
IAH

3923/07 21Mar2023 GGGA 581G7/9980/C8B8

ALS

March 29, 2023 Service Request No:E2300287

Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS23031291

Dear Dane,

Enclosed are the results of the sample(s) submitted to our laboratory March 27, 2023
For your reference, these analyses have been assigned our service request number **E2300287.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300287
Project:	HS23031291	**Date Received:**	03/27/23
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 03/27/23.

The sample was received in good condition and are consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2300157: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2300287
Project: HS23031291

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300287-001	LH18/24-SP650_032123_AIX	3/21/2023	1300

Service Request Summary

Folder #: **E2300287**
Client Name: ALS Environmental - US
Project Name: HS23031291
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 03/27/23
Internal Due Date: 3/29/2023
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23031291
EDD: BASIC_WQC_CASNo_LOD

1 100 mL-Plastic Bottle NM CLEAR Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:
Rush

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2300287-001	LH18/24-SP650_032123_AIX	Water	03/21/23 1300	**IV**

Service Request Summary

Folder #: **E2300287**
Client Name: ALS Environmental - US
Project Name: HS23031291
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 03/27/23
Internal Due Date: 3/29/2023
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23031291
EDD: BASIC_WQC_CASNo_LOD

1 100 mL-Plastic Bottle NM CLEAR Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:
Rush

Test Comments:

Group	Test/Method	Samples	Comments
Semivoa GCMS	ClO4 DOD/6850	1	IV due 4/5

Data Qualifiers

HRMS Qualifier Set

*	Indicates the samples were extracted outside of the recommended holding time.
B	Indicates the associated analyte was found in the method blank at >1/10th the reported value.
E	Estimated value. The reported concentration is above the calibration range of the instrument.
J	Estimated value. The reported concentration is below the MRL.
K	The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits.The concentration of this analyte should be considered as an estimate.
P	Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.
Q	Monitored lock-mass indicates matrix-interference. Reported result is estimated.
S	Signal saturated detector. Result reported from dilution.
U	Compound was analyzed for, but was not detected (ND).
X	See Case Narrative.
Y	Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-nois ratios are greater than 10:1, making the recoveries acceptable.
i	The MDL/MRL have been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

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ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793	5/27/2023
California Department of Health Services	2919-2023	4/30/2023
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Hawaii Department of Health	2022	4/30/2023
Illinois Environmental Protection Agency	2000322022-9	5/9/2023
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Michigan Depratment of Environmental Quality	9971-2022	4/30/2023
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2023
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209422	4/24/2023
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	11707	3/31/2023
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002	5/15/2023
Pennsylvania Department of Environmental Protection	68-03441-016	6/30/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	04016-2022	4/30/2023
Texas Commision on Environmental Quality	T104704231-22-29	4/30/2023
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

ALS

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
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Subcontract Chain of Custody

SAMPLING STATE: Colorado **COC ID:** 21214

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS23031291
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23031291-02**	**LH18/24-SP650_032123_AIX**	**Water**	**21 Mar 2023 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			29 Mar 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: NP Date/Time:

Received By: Date/Time: 3-23-23 0800

Cooler ID(s): Temperature(s):

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Environmental

Cooler Receipt Form

Project Chemist JA

Client/Project ALS-H

Thermometer ID IR1

Date/Time Received: 3.22.23 Initials: CH

Date/Time Logged in: 3.23.23 Initials CH

1. Method of delivery: ◯ US Mail ◯ Fed Ex ◯ UPS ◯ DHL ◉ Courier (ALS) ◯ Client

2. Samples received in: ◉ Cooler ◯ Box ◯ Envelope ◯ Other

3. Were custody seals on coolers? ◯ Yes ◉ No

Were they intact? ◯ Yes ◯ No ◉ N/A

Were they signed and dated? ◯ Yes ◯ No ◉ N/A

If yes, how many and where?

4. Packing Material: ◯ Inserts ◉ Baggies ◯ Bubble Wrap ◯ Gel Packs ◉ Wet Ice ◯ Sleeves ◯ Other

5. Foreign or Regulated Soil? ◯ Yes ◯ No Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
NA		3.23.23	0900	CH	1.2	☑
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ◉ Yes ◯ No

7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ◉ Yes ◯ No

8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ◉ Yes ◯ No

9. Were appropriate bottles/containers and volumes received for the requested tests? ◉ Yes ◯ No

10. Did sample labels and tags agree with custody documents? ◉ Yes ◯ No

Notes, Discrepancies, & Resolutions:

Service request Label:

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Houston, TX 77099
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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 417279 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** **Prep Date/Time:** 3/28/23 08:36

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300255-001	GW-MW-66D2-20230313-01	.01	6850/ClO4			Ground Water	10mL	
2	E2300255-002	GW-MW-29D-20230313-01	.01	6850/ClO4			Ground Water	10mL	
3	E2300281-001	46DP02-GP01-4247-021523	.01	6850/ClO4 DOD			Water	10mL	
4	E2300281-002	46DP02-GP01P-4247-021523	.01	6850/ClO4 DOD			Water	10mL	
5	E2300281-003	WO-EB01-021523	.01	6850/ClO4 DOD			Water	10mL	
6	E2300281-004	46DP02-GP02-7277-021523	.01	6850/ClO4 DOD			Water	10mL	
7	E2300282-001	46DP03-GP01-4247-021623	.02	6850/ClO4 DOD			Water	10mL	
8	E2300282-002	WO-EB01-021623	.01	6850/ClO4 DOD			Water	10mL	
9	E2300282-003	46DP03-GP02-7277-021623	.01	6850/ClO4 DOD			Water	10mL	
10	E2300286-001	LH18/24-SP140_032123	.01	6850/ClO4 DOD			Water	10mL	
11	E2300287-001	LH18/24-SP650_032123_AIX	.01	6850/ClO4 DOD			Water	10mL	
12	EQ2300157-01	MB		6850/ClO4 DOD			Liquid	10mL	
13	EQ2300157-02	LCS		6850/ClO4 DOD			Liquid	10mL	
14	EQ2300157-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
15	EQ2300157-04	46DP03-GP01-4247-021623 MS	.02	6850/ClO4 DOD			Liquid	10mL	
16	EQ2300157-05	46DP03-GP01-4247-021623 DMS	.02	6850/ClO4 DOD			Liquid	10mL	
17	K2303259-001	LGAC-INT1-032023	.01	6850/ClO4			Water	10mL	
18	K2303261-001	LGAC-INF-032023	.01	6850/ClO4			Water	10mL	
19	R2302279-005	2303150909A BW-1-268	.01	6850/ClO4			Water	10mL	
20	R2302281-012	2303150953 STGT-SB-9	.01	6850/ClO4			Water	10mL	
21	R2302352-012	2303191303 100L-SB-20	.01	6850/ClO4			Water	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300157-02	1.00µL	EQ2300157-03	1.00µL	EQ2300157-04	1.00µL	EQ2300157-05	1.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 227244 Logbook Ref: Perchlorate Internal Standard Expires On: 07/31/2023

E2300255-001	100.00µL	E2300255-002	100.00µL	E2300281-001	100.00µL	E2300281-002	100.00µL	E2300281-003	100.00µL	E2300281-004	100.00µL
E2300282-001	100.00µL	E2300282-002	100.00µL	E2300282-003	100.00µL	E2300286-001	100.00µL	E2300287-001	100.00µL	EQ2300157-01	100.00µL
EQ2300157-02	100.00µL	EQ2300157-03	100.00µL	EQ2300157-04	100.00µL	EQ2300157-05	100.00µL	K2303259-001	100.00µL	K2303261-001	100.00µL
R2302279-005	100.00µL	R2302281-012	100.00µL	R2302352-012	100.00µL						

Preparation Information Benchsheet

Prep Run#: 417279 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** **Prep Date/Time:** 3/28/23 08:36

Preparation Materials

Water HPLC Grade	01/04/2023 Water (226857)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 0.45um syringe filters	6850 Syringe Filters (224414)
6850 Luer-Lok Syringes	luer-lock syringes (228116)				

Preparation Steps

Step: Preparation
Started: 3/28/23 08:36
Finished: 3/28/23 09:37
By: XMI
Comments

Comments: _____

Reviewed By: XMI Date: 03/28/23

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
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www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300287
Project:	HS23031291	**Date Collected:**	3/21/23 1300
Sample Matrix:	Water	**Date Received:**	3/27/23
Sample Name:	LH18/24-SP650_032123_AIX	**Units:**	µg/L
Lab Code:	E2300287-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0471**		0.100	0.0500	0.0250	1	3/28/23	3/28/23 14:10	417279	799088	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300287
Project:	HS23031291	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300157-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND		0.100	0.0500	0.0250	1	3/28/23	3/28/23 12:30	417279	799088	

Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23031291
Sample Matrix: Water

Service Request: E2300287
Date Analyzed: 3/28/23

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 417279

	Lab Control Sample EQ2300157-02			Duplicate Lab Control Sample EQ2300157-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0918	0.100	92	0.0860	0.100	86	84 - 119	7	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300287
Project:	HS23031291	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300157-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0918**		0.100	0.0500	0.0250	1	3/28/23	3/28/23 12:36	417279	799088	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300287
Project:	HS23031291	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300157-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0860**		0.100	0.0500	0.0250	1	3/28/23	3/28/23 12:42	417279	799088	

HS23031291-MSVOA-SW8260

ALS WO# HS23031291

01184253

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA 8260

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

Volatiles by EPA 8260

HS23031291-01	Collected	Received	Matrix	Basis
LH18/24-SP650_032123	03/21/23 13:00	03/22/23 10:00	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

Volatiles by EPA 8260

HS23031291-01	Collected	Received	Matrix	Basis
LH18/24-SP650_032123	03/21/23 13:00	03/22/23 10:00	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
cis-1,2-Dichloroethene	ug/L	0.87	J	0.20	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
cis-1,3-Dichloropropene	ug/L	1.0	U	0.10	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:57	VOA6_430844_R43084	X032311

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

Volatiles by EPA 8260

HS23031291-03	Collected	Received	Matrix	Basis
Trip Blank	03/21/23 13:00	03/22/23 10:00	Trip Blank	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

Volatiles by EPA 8260

HS23031291-03	Collected	Received	Matrix	Basis
Trip Blank	03/21/23 13:00	03/22/23 10:00	Trip Blank	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
cis-1,3-Dichloropropene	ug/L	1.0	U	0.10	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Trichlorofluoromethane	ug/L	3.2		0.30	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:15	VOA6_430844_R43084	X032309

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

Volatiles by EPA 8260

VBLKW-230323	Collected	Received	Matrix	Basis
VBLKW-230323	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

Volatiles by EPA 8260

VBLKW-230323	Collected	Received	Matrix	Basis
VBLKW-230323	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA 8260

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

RunID
VOA6_430844_R430844

Volatiles by EPA 8260

CCV	Analyzed 03/23/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	45.98	50	92.0	80-120	
4-Bromofluorobenzene	51.4	50	103	80-120	
Dibromofluoromethane	48.79	50	97.6	80-120	
Toluene-d8	48.82	50	97.6	80-120	

CCB	Analyzed 03/23/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	38.74	50	77.5	80-120	*
4-Bromofluorobenzene	49.6	50	99.2	80-120	
Dibromofluoromethane	42.71	50	85.4	80-120	
Toluene-d8	53.51	50	107	80-120	

VLCSW-230323	Analyzed 03/23/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	45.45	50	90.9	81-118	
4-Bromofluorobenzene	49.74	50	99.5	85-114	
Dibromofluoromethane	48.48	50	97.0	80-119	
Toluene-d8	48.54	50	97.1	89-112	

VBLKW-230323	Analyzed 03/23/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	41.11	50	82.2	81-118	
4-Bromofluorobenzene	49.06	50	98.1	85-114	
Dibromofluoromethane	43.75	50	87.5	80-119	
Toluene-d8	54.08	50	108	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

RunID
VOA6_430844_R430844

Volatiles by EPA 8260

HS23031291-03	Analyzed 03/23/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	41	50	81.0	81-118	
4-Bromofluorobenzene	50	50	100	85-114	
Dibromofluoromethane	44	50	87.2	80-119	
Toluene-d8	53	50	107	89-112	

HS23031291-01	Analyzed 03/23/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	42	50	83.4	81-118	
4-Bromofluorobenzene	50	50	99.5	85-114	
Dibromofluoromethane	44	50	88.9	80-119	
Toluene-d8	54	50	109	89-112	

HS23031291-01MS	Analyzed 03/23/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	40.25	50	80.5	81-118	*
4-Bromofluorobenzene	49.62	50	99.2	85-114	
Dibromofluoromethane	43.15	50	86.3	80-119	
Toluene-d8	53.23	50	106	89-112	

HS23031291-01MSD	Analyzed 03/23/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	39.96	50	79.9	81-118	*
4-Bromofluorobenzene	49.59	50	99.2	85-114	
Dibromofluoromethane	42.74	50	85.5	80-119	
Toluene-d8	52.74	50	105	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA 8260

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23031291**

LH18/24-SP650_032123	HS23031291-01	HS23031291-01MS	HS23031291-01MSD	
Sample Matrix Aqueous	**Run Date** 03/23/23	03/23/23	03/23/23	
Units µg/L	**Run Time** 13:57	15:00	15:21	
	Data File X032311.D	X032314.D	X032315.D	

Analyte	%R Limits	DF	Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	1	0	18.01	20.00	90		20.31	20.00	102		20	12.0	
1,1,1-Trichloroethane	74-131	1	0	16.77	20.00	84		18.75	20.00	94		20	11.2	
1,1,2,2-Tetrachloroethane	71-121	1	0	17.56	20.00	88		18.9	20.00	95		20	7.30	
1,1,2-Trichloroethane	80-119	1	0	17.27	20.00	86		19.63	20.00	98		20	12.8	
1,1-Dichloroethane	77-125	1	0	14.96	20.00	75	*	17.5	20.00	88		20	15.6	
1,1-Dichloroethene	71-131	1	0	16.73	20.00	84		19.74	20.00	99		20	16.5	
1,1-Dichloropropene	78-125	1	0	18.71	20.00	94		21.3	20.00	107		20	13.0	
1,2,3-Trichlorobenzene	69-129	1	0	18.72	20.00	94		21.34	20.00	107		20	13.0	
1,2,3-Trichloropropane	73-122	1	0	17.30	20.00	87		18.25	20.00	91		20	5.40	
1,2,4-Trichlorobenzene	69-130	1	0	19.19	20.00	96		22.3	20.00	112		20	15.0	
1,2,4-Trimethylbenzene	76-124	1	0	20.25	20.00	101		22.88	20.00	114		20	12.2	
1,2-Dibromo-3-chloropropane	62-128	1	0	18.84	20.00	94		18.56	20.00	93		20	1.50	
1,2-Dibromoethane	77-121	1	0	18.26	20.00	91		20.19	20.00	101		20	10.0	
1,2-Dichlorobenzene	80-119	1	0	19.08	20.00	95		21.57	20.00	108		20	12.2	
1,2-Dichloroethane	73-128	1	0	15.76	20.00	79		18.81	20.00	94		20	17.7	
1,2-Dichloropropane	78-122	1	0	15.89	20.00	79		18.84	20.00	94		20	17.0	
1,3,5-Trimethylbenzene	75-124	1	0	20.50	20.00	102		23.13	20.00	116		20	12.1	
1,3-Dichlorobenzene	80-119	1	0	19.01	20.00	95		21.8	20.00	109		20	13.6	
1,3-Dichloropropane	80-119	1	0	17.92	20.00	90		19.89	20.00	99		20	10.4	
1,4-Dichlorobenzene	79-118	1	0	18.63	20.00	93		20.61	20.00	103		20	10.1	
2,2-Dichloropropane	60-139	1	0	16.69	20.00	83		18.92	20.00	95		20	12.6	
2-Butanone	56-143	1	0	25.45	40.00	64		27.2	40.00	68		20	6.70	
2-Chlorotoluene	79-122	1	0	19.49	20.00	98		22.22	20.00	111		20	13.1	
2-Hexanone	57-139	1	0	33.05	40.00	83		35.47	40.00	89		20	7.10	
4-Chlorotoluene	78-122	1	0	19.39	20.00	97		22.48	20.00	112		20	14.8	
4-Isopropyltoluene	77-127	1	0	21.84	20.00	109		25.11	20.00	126		20	13.9	
4-Methyl-2-pentanone	67-130	1	0	35.29	40.00	88		36.75	40.00	92		20	4.10	
Acetone	39-160	1	0	20.09	40.00	50		20.95	40.00	52		20	4.20	
Benzene	79-120	1	0	16.68	20.00	83		19.62	20.00	98		20	16.2	
Bromobenzene	80-120	1	0	18.67	20.00	93		21.2	20.00	106		20	12.6	
Bromochloromethane	78-123	1	0	13.81	20.00	69	*	16.09	20.00	80		20	15.2	
Bromodichloromethane	79-125	1	0	15.76	20.00	79	*	18.79	20.00	94		20	17.6	
Bromoform	66-130	1	0	18.21	20.00	91		19.75	20.00	99		20	8.10	
Bromomethane	53-141	1	0	13.60	20.00	68		15.29	20.00	77		20	11.7	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder **HS23031291**

LH18/24-SP650_032123	HS23031291-01	HS23031291-01MS	HS23031291-01MSD	
Sample Matrix Aqueous	**Run Date** 03/23/23	03/23/23	03/23/23	
Units µg/L	**Run Time** 13:57	15:00	15:21	
	Data File X032311.D	X032314.D	X032315.D	

Analyte	%R Limits	DF	Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Carbon disulfide	64-133	1	0	33.03	40.00	83		37.65	40.00	94		20	13.1	
Carbon tetrachloride	72-136	1	0	19.90	20.00	100		22.28	20.00	111		20	11.3	
Chlorobenzene	82-118	1	0	18.50	20.00	93		21.44	20.00	107		20	14.7	
Chloroethane	60-138	1	0	14.05	20.00	70		14.67	20.00	73		20	4.30	
Chloroform	79-124	1	0	14.16	20.00	71	*	16.85	20.00	84		20	17.3	
Chloromethane	50-139	1	0	17.24	20.00	86		20.76	20.00	104		20	18.5	
cis-1,2-Dichloroethene	78-123	1	0.8747	16.06	20.00	76	*	18.45	20.00	88		20	13.8	
cis-1,3-Dichloropropene	75-124	1	0	15.64	20.00	78		18.98	20.00	95		20	19.3	
Dibromochloromethane	74-126	1	0	17.45	20.00	87		19.85	20.00	99		20	12.9	
Dibromomethane	79-123	1	0	15.96	20.00	80		18.48	20.00	92		20	14.7	
Dichlorodifluoromethane	32-152	1	0	18.39	20.00	92		19.26	20.00	96		20	4.60	
Ethylbenzene	79-121	1	0	19.42	20.00	97		22.2	20.00	111		20	13.3	
Hexachlorobutadiene	66-134	1	0	24.32	20.00	122		27.2	20.00	136	*	20	11.2	
Isopropylbenzene	72-131	1	0	20.70	20.00	103		23.5	20.00	117		20	12.7	
m,p-Xylene	80-121	1	0	39.47	40.00	99		44.76	40.00	112		20	12.6	
Methylene chloride	74-124	1	0	13.96	20.00	70	*	16.92	20.00	85		20	19.2	
n-Butylbenzene	75-128	1	0	22.34	20.00	112		26.12	20.00	131	*	20	15.6	
n-Propylbenzene	76-126	1	0	21.04	20.00	105		23.7	20.00	119		20	11.9	
Naphthalene	61-128	1	0	18.87	20.00	94		20.47	20.00	102		20	8.10	
o-Xylene	78-122	1	0	19.18	20.00	96		21.58	20.00	108		20	11.8	
sec-Butylbenzene	77-126	1	0	21.84	20.00	109		24.73	20.00	124		20	12.4	
Styrene	78-123	1	0	19.22	20.00	96		22.14	20.00	111		20	14.1	
tert-Butylbenzene	78-124	1	0	21.92	20.00	110		24.24	20.00	121		20	10.1	
Tetrachloroethene	74-129	1	0	22.32	20.00	112		24.99	20.00	125		20	11.3	
Toluene	80-121	1	0	19.28	20.00	96		22.11	20.00	111		20	13.7	
trans-1,2-Dichloroethene	75-124	1	0	15.93	20.00	80		18.2	20.00	91		20	13.3	
trans-1,3-Dichloropropene	73-127	1	0	15.92	20.00	80		18.9	20.00	95		20	17.1	
Trichloroethene	79-123	1	0	18.51	20.00	93		20.72	20.00	104		20	11.3	
Trichlorofluoromethane	65-141	1	0	18.61	20.00	93		20.31	20.00	102		20	8.70	
Vinyl chloride	58-137	1	0	16.57	20.00	83		18.4	20.00	92		20	10.4	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA 8260

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

Volatiles by EPA 8260

VOA6_430844_R430844		QC ID	LCS-R430844
QC Matrix Aqueous	Units	Run Date	03/23/23
	ug/L	Run Time	11:50

Analyte	%R Limits	Spike Added	LCS Result	%R	Q
1,1,1,2-Tetrachloroethane	78-124	20	20.99	105	
1,1,1-Trichloroethane	74-131	20	18.76	94	
1,1,2,2-Tetrachloroethane	71-121	20	22.26	111	
1,1,2-Trichloroethane	80-119	20	21	105	
1,1-Dichloroethane	77-125	20	18.61	93	
1,1-Dichloroethene	71-131	20	17.17	86	
1,1-Dichloropropene	78-125	20	18.32	92	
1,2,3-Trichlorobenzene	69-129	20	20.07	100	
1,2,3-Trichloropropane	73-122	20	21.84	109	
1,2,4-Trichlorobenzene	69-130	20	20.14	101	
1,2,4-Trimethylbenzene	76-124	20	20.05	100	
1,2-Dibromo-3-chloropropane	62-128	20	22.86	114	
1,2-Dibromoethane	77-121	20	22.16	111	
1,2-Dichlorobenzene	80-119	20	21.18	106	
1,2-Dichloroethane	73-128	20	20.64	103	
1,2-Dichloroethane-d4	81-118	50	45.45	91	
1,2-Dichloropropane	78-122	20	20.25	101	
1,3,5-Trimethylbenzene	75-124	20	19.36	97	
1,3-Dichlorobenzene	80-119	20	19.9	100	
1,3-Dichloropropane	80-119	20	21.68	108	
1,4-Dichlorobenzene	79-118	20	19.95	100	
2,2-Dichloropropane	60-139	20	19.63	98	
2-Butanone	56-143	40	38.97	97	
2-Chlorotoluene	79-122	20	20.19	101	
2-Hexanone	57-139	40	44.37	111	
4-Bromofluorobenzene	85-114	50	49.74	100	
4-Chlorotoluene	78-122	20	20.56	103	
4-Isopropyltoluene	77-127	20	18.21	91	
4-Methyl-2-pentanone	67-130	40	44.92	112	
Acetone	39-160	40	37.9	95	
Benzene	79-120	20	19.82	99	
Bromobenzene	80-120	20	21.44	107	
Bromochloromethane	78-123	20	19.28	96	
Bromodichloromethane	79-125	20	20.72	104	
Bromoform	66-130	20	22.8	114	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

Volatiles by EPA 8260

VOA6_430844_R430844		QC ID	LCS-R430844
QC Matrix Aqueous	Units	Run Date	03/23/23
	ug/L	Run Time	11:50

Analyte	%R Limits	Spike Added	LCS Result	%R	Q
Bromomethane	53-141	20	20.93	105	
Carbon disulfide	64-133	40	33.54	84	
Carbon tetrachloride	72-136	20	18.13	91	
Chlorobenzene	82-118	20	20.62	103	
Chloroethane	60-138	20	16.54	83	
Chloroform	79-124	20	18.43	92	
Chloromethane	50-139	20	20.23	101	
cis-1,2-Dichloroethene	78-123	20	18.7	94	
cis-1,3-Dichloropropene	75-124	20	20.67	103	
Dibromochloromethane	74-126	20	21.06	105	
Dibromofluoromethane	80-119	50	48.48	97	
Dibromomethane	79-123	20	21.12	106	
Dichlorodifluoromethane	32-152	20	18.16	91	
Ethylbenzene	79-121	20	19.59	98	
Hexachlorobutadiene	66-134	20	18.36	92	
Isopropylbenzene	72-131	20	18.59	93	
m,p-Xylene	80-121	40	39.81	100	
Methylene chloride	74-124	20	19.41	97	
Naphthalene	61-128	20	21.65	108	
n-Butylbenzene	75-128	20	18.22	91	
n-Propylbenzene	76-126	20	18.81	94	
o-Xylene	78-122	20	20.25	101	
sec-Butylbenzene	77-126	20	17.29	86	
Styrene	78-123	20	21.56	108	
tert-Butylbenzene	78-124	20	18.6	93	
Tetrachloroethene	74-129	20	19.21	96	
Toluene	80-121	20	20.85	104	
Toluene-d8	89-112	50	48.54	97	
trans-1,2-Dichloroethene	75-124	20	18.83	94	
trans-1,3-Dichloropropene	73-127	20	21.52	108	
Trichloroethene	79-123	20	19.49	98	
Trichlorofluoromethane	65-141	20	17.45	87	
Vinyl chloride	58-137	20	18.11	90	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

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Form 4

Method Blank Summary

Volatiles by EPA 8260

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230323	X032307.D	03/23/23 12:33	VOA6_430844_R430844
VLCSW-230323	LCS	VLCSW-230323	X032305.D	03/23/23 11:50	VOA6_430844_R430844
Trip Blank	SAMP	HS23031291-03	X032309.D	03/23/23 13:15	VOA6_430844_R430844
LH18/24-SP650_032123	SAMP	HS23031291-01	X032311.D	03/23/23 13:57	VOA6_430844_R430844
LH18/24-SP650_032123	MS	HS23031291-01MS	X032314.D	03/23/23 15:00	VOA6_430844_R430844
LH18/24-SP650_032123	MSD	HS23031291-01MSD	X032315.D	03/23/23 15:21	VOA6_430844_R430844

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Form 5

Instrument Performance Check

Volatiles by EPA 8260

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
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www.alsglobal.com

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

RunID
VOA6_430425

Tune File X031701.D 03/17/23 11:08

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	15.2 (15.2)
75	30.0 - 60.0% of mass 95	44.4 (44.4)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.9 (6.87)
173	Less than 2.0% of mass 174	0.7 (0.806) 1
174	50.0 - 120.0% of mass 95	82.7 (82.7)
175	4.0 - 9.0% of mass 174	6 (7.26) 1
176	93.0 - 101.0% of mass 174	81.9 (99.1) 1
177	5.0 - 9.0% of mass 176	5.1 (6.23) 2

Value is % of mass 1) 174 2) 176 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	ICAL1	03/17/23 11:29	X031702	VSTD000.25
2	ICAL2	03/17/23 12:11	X031703	VSTD000.5
3	ICAL3	03/17/23 12:32	X031704	VSTD001
4	ICAL4	03/17/23 12:53	X031705	VSTD002
5	ICAL5	03/17/23 13:14	X031706	VSTD005
6	ICAL6	03/17/23 13:35	X031707	VSTD020
7	ICAL7	03/17/23 13:55	X031708	VSTD050
8	ICAL8	03/17/23 14:16	X031709	VSTD100
9	ICAL9	03/17/23 14:37	X031710	VSTD150
10	ICAL	03/17/23 14:58	X031711	VSTD200
11	ICV	03/17/23 15:40	X031713	CCV

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

RunID
VOA6_430844

Tune File X032301.D 03/23/23 10:26

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	15 (15)
75	30.0 - 60.0% of mass 95	43.7 (43.7)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.7 (6.69)
173	Less than 2.0% of mass 174	0.4 (0.443) 1
174	50.0 - 120.0% of mass 95	93.8 (93.8)
175	4.0 - 9.0% of mass 174	7 (7.5) 1
176	93.0 - 101.0% of mass 174	92.3 (98.4) 1
177	5.0 - 9.0% of mass 176	6 (6.53) 2

Value is % of mass 1) 174 2) 176 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	03/23/23 11:08	X032303	CCV
2	CCB	03/23/23 11:29	X032304	CCB
3	LCS	03/23/23 11:50	X032305	VLCSW-230323
4	MBLK	03/23/23 12:33	X032307	VBLKW-230323
5	SAMP	03/23/23 13:15	X032309	Trip Blank
6	SAMP	03/23/23 13:57	X032311	LH18/24-SP650_032123
7	MS	03/23/23 15:00	X032314	HS23031291-01MS
8	MSD	03/23/23 15:21	X032315	HS23031291-01MSD
9	CCV_EN	03/23/23 15:42	X032316	CCV-END

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Form 6

Initial Calibration Data

Volatiles by EPA 8260

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129

ICAL End Date 17-MAR-2023 1458

Calibration Files

Level 1 ..voa6.i\X230317.b\X031702.D
Level 2 ..voa6.i\X230317.b\X031703.D
Level 3 ..voa6.i\X230317.b\X031704.D
Level 4 ..voa6.i\X230317.b\X031705.D
Level 5 ..voa6.i\X230317.b\X031706.D
Level 6 ..voa6.i\X230317.b\X031707.D
Level 7 ..voa6.i\X230317.b\X031708.D
Level 8 ..voa6.i\X230317.b\X031709.D
Level 9 ..voa6.i\X230317.b\X031710.D
Level 10 ..voa6.i\X230317.b\X031711.D

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Dichlorodifluoromethane	NE 117977	1644 277552	2581 404362	5239 NE	9602	49131	QUAD	0.01170	3.00325	-0.32334	0.99876	
Chloromethane	NE 0.44767	0.52882 0.47768	0.44328 0.50506	0.42183 0.48835	0.40199	0.42464	AVRG		0.45993		9.22052	
Propionitrile	NE 0.07225	0.07162 0.06705	0.08328 0.06253	0.06867 0.06930	0.07298	0.06639	AVRG		0.07045		8.25720	
Vinyl Chloride	NE 0.39920	0.42741 0.43351	0.35353 0.42226	0.40661 0.39814	0.32884	0.37489	AVRG		0.39382		8.94531	
Bromomethane	NE 0.23372	0.22648 0.23091	0.22809 0.23372	0.21383 NE	0.22055	0.22415	AVRG		0.22643		3.02149	
Chloroethane	NE 0.27457	0.33361 0.26536	0.31290 0.25345	0.29534 0.23826	0.26635	0.27379	AVRG		0.27929		10.66890	
Trichlorofluoromethane	NE 0.44131	0.52203 0.51302	0.47567 0.50556	0.46921 0.47503	0.34616	0.45614	AVRG		0.46712		11.26602	
Acrolein	NE 19125	179 43228	474 65230	794 87434	1386	7235	LINR	0.06233	0.02933		0.99811	
Acetone	NE 109249	2266 202318	2978 258914	5122 386486	12577	45236	LINR	-0.10404	0.12437		0.99647	
1,1-Dichloroethene	NE 0.28641	0.33823 0.29732	0.33665 0.29251	0.31845 0.27983	0.25876	0.29417	AVRG		0.30026		8.75947	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Isobutyl Alcohol	NE	0.04807	0.07135	0.07350	0.07205	0.06923						
	0.07036	0.06883	0.06417	0.07641			AVRG		0.06822		12.13006	
Acetonitrile	NE	0.04489	0.05402	0.04508	0.04417	0.04455						
	0.04839	0.04708	0.04478	0.04586			AVRG		0.04653		6.69442	
Allyl Chloride	NE	1.23465	1.28620	1.20030	1.14657	1.06036						
	1.15153	1.12223	1.06223	1.09513			AVRG		1.15102		6.71360	
Iodomethane	NE	1037	1627	2950	7971	49371						
	207928	585867	998873	1450729			QUAD	0.18536	2.69908	-0.17861	0.99452	
Acrylonitrile	NE	0.16259	0.17203	0.17163	0.14550	0.16669						
	0.17540	0.16940	0.16448	0.17396			AVRG		0.16685		5.44145	
Methylene Chloride	NE	2729	4854	8273	22035	76634						
	192572	376597	522386	711938			LINR	-0.03460	0.47251		0.99853	
Methyl tert-butyl ether	NE	1.87250	1.75350	1.74224	1.58536	1.47207						
	1.51899	1.48183	1.39555	1.40673			AVRG		1.58098		10.74933	
Carbon Disulfide	NE	1.24824	1.07163	1.14727	0.91974	1.00894						
	1.04077	1.16653	1.18572	1.13989			AVRG		1.10319		9.20968	
trans-1,2-Dichloroethene	NE	0.48015	0.45234	0.44967	0.39337	0.40283						
	0.41318	0.41980	0.40841	0.39167			AVRG		0.42349		7.19260	
Vinyl Acetate	NE	1.19101	1.17318	1.24812	1.35121	1.29926						
	1.37711	1.32703	1.24455	1.27332			AVRG		1.27609		5.44297	
1,1-Dichloroethane	NE	0.80832	0.79859	0.83084	0.71414	0.74169						
	0.77338	0.76084	0.74101	0.73400			AVRG		0.76698		5.06212	
Chloroprene	NE	0.15797	0.15233	0.15035	0.12853	0.12172						
	0.11812	0.13923	0.13748	0.12833			AVRG		0.13712		10.29751	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
2-Butanone	NE	0.14492	0.17464	0.16738	0.18277	0.17916						
	0.20265	0.18775	0.17682	0.19514			AVRG		0.17902		9.32872	
Methacrylonitrile	NE	0.47961	0.50874	0.46304	0.45981	0.44912						
	0.47291	0.44657	0.40953	0.45807			AVRG		0.46082		5.83293	
2,2-Dichloropropane	NE	2270	4259	9195	21125	89332						
	222642	466243	659792	905769			LINR	-0.00507	0.60113		0.99932	
cis-1,2-Dichloroethene	NE	0.56607	0.53866	0.54421	0.48693	0.48900						
	0.51187	0.50480	0.48720	0.48364			AVRG		0.51249		5.89360	
Chloroform	NE	1.06526	0.89370	0.90907	0.82447	0.79702						
	0.82178	0.79907	0.77111	0.77989			AVRG		0.85126		10.96560	
Bromochloromethane	NE	0.34747	0.31208	0.31221	0.28652	0.27224						
	0.28100	0.27176	0.26212	0.26476			AVRG		0.29002		9.78295	
1,1,1-Trichloroethane	NE	0.70881	0.63528	0.69613	0.54594	0.60592						
	0.59600	0.65244	0.64488	0.64378			AVRG		0.63658		7.84280	
1,1-Dichloropropene	NE	0.37001	0.37886	0.37422	0.32360	0.32672						
	0.32541	0.37427	0.37465	0.36304			AVRG		0.35675		6.73568	
1,2-Dichloroethane	NE	0.49578	0.43027	0.41447	0.39204	0.39261						
	0.41424	0.39760	0.39827	0.40563			AVRG		0.41566		7.82096	
Carbon Tetrachloride	NE	0.38512	0.37621	0.36020	0.31858	0.29724						
	0.29421	0.34865	0.35346	0.33997			AVRG		0.34151		9.47408	
Benzene	NE	1.36837	1.31455	1.30883	1.11213	1.15853						
	1.18290	1.21513	1.21268	1.19201			AVRG		1.22946		6.78629	
Trichloroethene	NE	0.37499	0.34162	0.34158	0.29240	0.30874						
	0.31254	0.33993	0.34226	0.32635			AVRG		0.33116		7.33053	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Bromodichloromethane	NE 0.42403	0.50192 0.42979	0.44325 0.42750	0.43356 0.43696	0.41657	0.41421	AVRG		0.43642		6.01375	
Methyl Methacrylate	NE 0.45468	0.47227 0.43739	0.44671 0.40542	0.42094 0.49066	0.44389	0.44056	AVRG		0.44584		5.68680	
2-Chloroethylvinyl ether	NE 0.14073	0.12154 0.13903	0.13088 0.13558	0.12336 0.14218	0.13070	0.13017	AVRG		0.13269		5.51544	
1,2-Dichloropropane	NE 0.32307	0.37615 0.32517	0.35844 0.31847	0.33371 0.32560	0.30960	0.31171	AVRG		0.33133		6.67382	
2-Nitropropane	NE 0.15278	0.15579 0.14676	0.17580 0.14210	0.17304 0.17749	0.14859	0.14043	AVRG		0.15698		9.34615	
Dibromomethane	NE 0.21088	0.21416 0.20453	0.22034 0.20083	0.22768 0.20439	0.21298	0.20627	AVRG		0.21134		4.06226	
4-Methyl-2-Pentanone	NE 0.32803	0.32067 0.31028	0.28645 0.29815	0.32186 0.33845	0.32581	0.31752	AVRG		0.31636		5.03158	
cis-1,3-Dichloropropene	NE 0.54728	0.61789 0.55999	0.51064 0.56057	0.54139 0.57565	0.52144	0.52623	AVRG		0.55123		5.90538	
Ethyl Methacrylate	NE 0.34518	0.37532 0.34442	0.40046 0.34169	0.36790 0.38217	0.39437	0.36115	AVRG		0.36808		5.93608	
Toluene	NE 1.31784	1.36360 1.33486	1.35460 1.30924	1.34294 1.30143	1.22572	1.25621	AVRG		1.31183		3.47950	
trans-1,3-Dichloropropene	NE 0.46881	0.45524 0.46750	0.43480 0.47187	0.45335 0.48925	0.43511	0.44268	AVRG		0.45762		4.01514	
2-Hexanone	NE 0.22814	0.21920 0.21427	0.19213 0.20591	0.21529 0.23764	0.22029	0.22128	AVRG		0.21713		5.95075	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
1,1,2-Trichloroethane	NE 0.28140	0.32249 0.27242	0.29066 0.26403	0.30279 0.27503	0.28685	0.27117	AVRG		0.28521		6.39221	
1,3-Dichloropropane	NE 0.57930	0.58721 0.55987	0.58401 0.54766	0.55929 0.56200	0.56249	0.55961	AVRG		0.56683		2.36109	
Dibromochloromethane	NE 0.40359	0.45755 0.40217	0.39816 0.40171	0.39690 0.40940	0.38257	0.37405	AVRG		0.40290		5.77788	
Tetrachloroethene	NE 0.24481	0.30927 0.27864	0.26475 0.27518	0.27730 0.26060	0.21975	0.23646	AVRG		0.26297		10.10817	
1,2-Dibromoethane	NE 0.36394	0.36078 0.35450	0.33495 0.34546	0.34900 0.35852	0.35755	0.34806	AVRG		0.35253		2.56635	
1-Chlorohexane	NE 119361	1701 288303	3010 412465	5763 638798	10247	49375	LINR	0.04477	0.24989		0.99823	
Chlorobenzene	NE 0.92404	1.02126 0.93372	0.97096 0.93315	0.93772 0.92768	0.88987	0.89884	AVRG		0.93747		4.16730	
1,1,1,2-Tetrachloroethane	NE 0.35307	0.43057 0.36128	0.35450 0.36587	0.34011 0.37191	0.33324	0.34080	AVRG		0.36126		8.01239	
Ethylbenzene	NE 0.43812	0.54631 0.46539	0.48701 0.46890	0.46674 0.45227	0.40163	0.42592	AVRG		0.46137		8.87817	
m,p-Xylenes	NE 0.56015	0.65300 0.58544	0.60028 0.58238	0.61865 0.57932	0.50462	0.54179	AVRG		0.58063		7.40819	
o-Xylene	NE 0.56178	0.68241 0.57988	0.61521 0.57471	0.58560 0.56951	0.53785	0.54396	AVRG		0.58343		7.47056	
Styrene	NE 0.98499	0.97967 0.99427	0.91923 0.99127	0.96004 0.97711	0.90632	0.96351	AVRG		0.96405		3.25239	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Bromoform	NE 0.29082	0.30996 0.28454	0.25650 0.28902	0.24947 0.29596	0.26157	0.26945	AVRG		0.27859		7.27750	
Isopropylbenzene	NE 1.24429	1.42556 1.38661	1.45286 1.37809	1.47212 1.35267	1.12383	1.19028	AVRG		1.33626		9.14543	
1,1,2,2-Tetrachloroethane	NE 0.85932	0.99715 0.82772	0.84918 0.81837	0.88045 0.88925	0.89221	0.82734	AVRG		0.87122		6.27988	
1,2,3-Trichloropropane	NE 0.67077	0.70191 0.61192	0.64722 0.69479	0.66016 0.64266	0.64496	0.61845	AVRG		0.65476		4.69619	
trans-1,4-Dichloro-2-butene	NE 62606	541 125897	1007 181079	1998 NE	5471	23270	LINR	0.01057	0.11249		0.99985	
n-Propylbenzene	NE 2.59864	3.07273 2.98014	2.81938 2.97016	2.96967 2.86997	2.25283	2.47692	AVRG		2.77894		9.93810	
Bromobenzene	NE 0.78640	0.82667 0.82135	0.81792 0.82414	0.81212 0.83253	0.76727	0.74640	AVRG		0.80387		3.75046	
1,3,5-Trimethylbenzene	NE 2.03282	2.33558 2.25975	2.24733 2.24397	2.27828 2.22495	1.83105	1.94518	AVRG		2.15544		8.10253	
2-Chlorotoluene	NE 1.76962	1.89176 1.85674	2.04730 1.88892	1.99410 1.86296	1.74847	1.75572	AVRG		1.86840		5.54193	
4-Chlorotoluene	NE 2.03979	2.20002 2.17419	2.01524 2.17083	2.18800 2.20748	1.93389	2.02354	AVRG		2.10589		4.85891	
tert-Butylbenzene	NE 1.55788	1.89653 1.84581	1.87243 1.82858	1.87631 1.69495	1.38270	1.49567	AVRG		1.71676		11.23010	
1,2,4-Trimethylbenzene	NE 2.10068	2.54669 2.30265	2.23258 2.29594	2.27654 2.17064	1.93041	2.03887	AVRG		2.21056		8.07996	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
sec-Butylbenzene	NE 2.06318	2.65431 2.52097	2.47990 2.53562	2.54193 2.49046	1.73328	1.92216	AVRG		2.32687		14.17711	
p-Isopropyltoluene	NE 1.93839	2.19685 2.32649	2.05820 2.31463	2.15716 2.23292	1.65060	1.81141	AVRG		2.07629		11.24017	
1,3-Dichlorobenzene	NE 1.32396	1.54668 1.42092	1.38453 1.42199	1.43945 1.40436	1.26526	1.30578	AVRG		1.39033		6.02976	
1,4-Dichlorobenzene	NE 1.38005	1.70732 1.46627	1.58825 1.45591	1.57580 1.46483	1.42184	1.38831	AVRG		1.49428		7.23520	
Benzyl Chloride	NE 426174	4324 885238	6470 1294607	13841 2013195	37307	154893	LINR	0.03086	0.81749		0.99946	
n-Butylbenzene	NE 1.60041	1.63271 1.94230	1.64467 1.92058	1.68075 1.87668	1.29432	1.46836	AVRG		1.67342		12.82247	
1,2-Dichlorobenzene	NE 1.34885	1.57367 1.41654	1.34942 1.40869	1.41060 1.38069	1.27630	1.35073	AVRG		1.39061		5.85882	
1,2-Dibromo-3-Chloropropane	NE 47841	405 98490	779 139207	1655 226912	4699	18853	LINR	0.02958	0.16534		0.99809	
1,2,4-Trichlorobenzene	NE 1.00455	1.08223 1.13367	0.87450 1.11828	1.02139 1.07113	0.89791	0.94636	AVRG		1.01667		9.24691	
Hexachlorobutadiene	NE 105547	1367 283471	2560 412820	5380 NE	7780	38257	QUAD	0.03607	2.56269	-0.33486	0.99529	
Naphthalene	NE 2.52061	2.50034 2.65506	2.20357 2.54418	2.20551 2.60544	2.31690	2.40934	AVRG		2.44011		6.82059	
1,2,3-Trichlorobenzene	NE 0.95539	1.04033 1.06496	0.90929 1.02056	0.95995 1.00211	0.88752	0.91562	AVRG		0.97286		6.42308	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Ethyl Acetate	NE 0.52072	0.54051 0.50146	0.49296 0.46849	0.51096 0.49537	0.56836	0.54892	AVRG		0.51642		6.08436	
Methyl Acrylate	NE 0.51738	0.52393 0.55846	0.44836 0.52213	0.51795 0.56577	0.50638	0.49999	AVRG		0.51782		6.57767	
n-Butanol	NE 92688	783 199313	1715 285255	3165 NE	6157	30431	LINR	0.63414	0.01335		0.99896	
Ethyl Acrylate	NE 1.11405	0.99076 1.19194	1.12042 1.16984	1.06243 1.31670	0.86029	0.99327	AVRG		1.09108		12.22730	
Cyclohexanone	NE 0.02952	0.03375 0.02809	0.03195 0.02606	0.02943 0.02856	0.03083	0.02908	AVRG		0.02970		7.56510	
1,4-Dioxane	0.00696 0.00658	0.00680 0.00621	0.00654 0.00620	0.00674 0.00704	0.00709	0.00619	AVRG		0.00663		5.26390	
n-Hexane	NE 126023	1555 370085	2771 NE	5204 NE	5476	45980	QUAD	0.00698	3.42252	-1.42434	0.99926	
Freon TF	NE 91222	1102 233445	2078 333134	4071 NE	6618	37539	QUAD	0.02420	3.65908	-0.52618	0.99678	
Methyl Acetate	NE 0.32130	0.28739 0.30124	0.22397 0.28373	0.27999 0.30332	0.29368	0.29189	AVRG		0.28739		9.32474	
Methylcyclohexane	NE 0.70044	0.69100 0.75525	0.64865 0.75148	0.69990 0.78696	0.56068	0.61894	AVRG		0.69037		10.38603	
Isopropyl alcohol	NE 0.02882	0.02690 0.02870	0.02596 0.02726	0.02833 0.02956	0.02963	0.02666	AVRG		0.02798		4.73915	
Amyl alcohol	NE 0.00921	0.00938 0.00936	0.00843 0.00926	0.00802 0.01105	0.00807	0.00832	AVRG		0.00901		10.55075	

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Initial Calibration Data

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Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Allyl alcohol	NE 126023	1223 370085	2361 NE	4552 NE	7188	45980	QUAD	0.12531	68.55174	-28.57566	0.99968	
4-Methyl-2-pentanol	NE 0.07028	0.07218 0.06948	0.08069 0.06869	0.06890 0.07941	0.07462	0.07259	AVRG		0.07298		6.10526	
Tert-butyl alcohol	NE 0.05268	0.05876 0.05125	0.04549 0.04860	0.05641 0.05380	0.05429	0.04996	AVRG		0.05236		7.74187	
Diethyl ether	NE 0.33578	0.36270 0.31513	0.40266 0.29580	0.34183 0.30400	0.32767	0.32963	AVRG		0.33502		9.65312	
1,3-Butadiene	NE 0.33263	0.37004 0.36282	0.35545 0.35134	0.35718 0.33578	0.26683	0.31968	AVRG		0.33908		9.27765	
Cyclohexane	NE 172149	2139 457578	3748 641070	7493 NE	11367	64931	QUAD	0.03517	1.87606	-0.13528	0.99515	
Tetrahydrofuran	NE 0.08545	0.08347 0.07793	0.08090 0.07160	0.08443 0.08065	0.08832	0.08208	AVRG		0.08165		5.91459	
alpha-Methylstyrene	NE 1.05799	1.22446 1.16084	1.01331 1.15374	1.07347 1.15449	0.95125	1.02127	AVRG		1.09009		8.10663	
Diisopropyl ether	NE 1.52297	1.58592 1.50511	1.86150 1.39574	1.66827 1.40729	1.55180	1.47196	AVRG		1.55229		9.25922	
Dichlorofluoromethane	NE 0.61195	0.63540 0.60386	0.69896 0.58655	0.68022 0.57031	0.59675	0.59076	AVRG		0.61942		7.08410	
Propylene oxide	NE 0.03299	0.02841 0.03015	0.02964 NE	0.02903 NE	0.03603	0.03209	AVRG		0.03119		8.61491	
3-Methyl-1-butanol	NE 0.00925	0.00741 0.00939	0.00803 0.00907	0.00807 0.01050	0.00830	0.00852	AVRG		0.00873		10.62883	

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Initial Calibration Data

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Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Butyl acrylate	NE 0.74976	0.77674 0.72330	0.83254 0.71771	0.69297 0.77332	0.67129	0.70453	AVRG		0.73802		6.78319	
1,2,3-Trimethylbenzene	NE 2.22962	2.67209 2.35989	2.78492 2.35397	2.53464 2.33195	2.21000	2.10318	AVRG		2.39781		9.34724	
Ethanol	NE 0.00451	0.00541 0.00418	0.00450 0.00382	0.00454 0.00378	0.00496	0.00466	AVRG		0.00448		11.56839	
1-Propanol	NE 0.00906	NE 0.00919	NE 0.00830	0.00915 0.00806	0.00911	0.00841	AVRG		0.00875		5.46375	*
tert-Butyl formate	NE 0.42407	0.36379 0.40989	0.39051 0.39353	0.38803 0.49413	0.41115	0.39152	AVRG		0.40740		9.02997	
3,3-Dimethyl-1-butanol	NE 0.03695	0.04227 0.03569	0.04264 0.03518	0.03988 0.04030	0.03707	0.03678	AVRG		0.03853		7.27086	
tert-Amyl methyl ether	NE 1.64579	1.91681 1.64432	2.05185 1.60657	1.82890 1.86189	1.87437	1.67183	AVRG		1.78915		8.56987	
tert-Butyl ethyl ether	NE 1.58262	1.68326 1.58321	1.88099 1.49595	1.68500 1.51427	1.66573	1.54264	AVRG		1.62596		7.32298	
tert-Amyl alcohol	NE 0.04241	0.04425 0.04099	0.04293 0.03935	0.04378 0.04941	0.04282	0.03915	AVRG		0.04279		7.17678	
Epichlorohydrin	NE 0.02872	0.02662 0.02741	0.03540 0.02658	0.02981 0.02937	0.02683	0.02597	AVRG		0.02852		10.20060	
Isoprene	NE 0.09308	0.09815 0.09978	0.11295 0.09626	0.08947 0.09538	0.08836	0.08980	AVRG		0.09591		7.85895	*
n-Amyl acetate	NE 0.61472	0.59052 0.59998	0.61934 0.60781	0.59856 0.69186	0.64648	0.61861	AVRG		0.62087		5.01819	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Isopropyl acetate	NE 0.89013	0.94786 0.87195	1.00803 0.82482	0.89720 0.91369	0.92246	0.87199	AVRG		0.90535		5.75588	
n-Butyl acetate	NE 0.55489	0.52734 0.54065	0.45742 0.53179	0.48360 0.60856	0.52615	0.53537	AVRG		0.52953		8.00581	
Acetaldehyde	NE 48915	NE 91272	NE 122135	3379 184725	4487	14072	LINR	-0.01634	0.02971		0.99671	*
Methyl Amyl Ketone	NE 0.78795	0.77360 0.76154	0.89045 0.74140	0.77776 0.82302	0.77026	0.78465	AVRG		0.79007		5.51596	
Dimethyl Disulfide	NE 0.72347	0.64395 0.74389	0.60230 0.73055	0.53037 0.73800	0.56160	0.61855	AVRG		0.65474		12.50973	
Isobutylene	NE 0.03870	0.04241 0.04143	0.04405 0.04084	0.04161 0.04385	0.03879	0.04238	AVRG		0.04156		4.59996	*
2-Ethylhexyl Acrylate	NE 0.78906	0.72001 0.84406	0.70124 0.83763	0.66428 0.84354	0.58247	0.66098	AVRG		0.73814		12.86575	*
1,2-Dichloroethylene (total)	NE 0.46252	0.52311 0.46230	0.49550 0.44780	0.49694 0.43766	0.44015	0.44591	AVRG		0.46799		6.44840	
Xylenes (total)	NE 0.52260	0.63274 0.55430	0.57657 0.55866	0.58656 0.55103	0.49324	0.51792	AVRG		0.55485		7.47785	
Dibromofluoromethane	NE 170305	1948 363757	4137 489100	8112 702510	18353	75605	LINR	-0.01548	0.45880		0.99908	
1,2-Dichloroethane-d4	NE 195743	2080 399036	4794 545784	8436 874210	22180	83385	LINR	0.02097	0.55062		0.99520	
Toluene-d8	NE 1.10886	1.32113 1.24227	1.45357 1.16084	1.30957 1.14185	1.21562	1.20182	AVRG		1.23950		8.66053	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
4-Bromofluorobenzene	NE 251415	3243 535221	6673 758344	12929 1161000	32222	111601	LINR	-0.00357	0.47168		0.99980	

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA 8260

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430425

Instrument ID voa6.i ICAL Date 17-MAR-2023
Lab File ID X031713.D ICAL Time 1355
?VAL? ?VAL? Conc Units ug/L
Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachlor	50.00	46.92	93.85	80-120	
1,1,1-Trichloroeth	50.00	45.72	91.44	80-120	
1,1,2,2-Tetrachlor	50.00	49.58	99.16	80-120	
Freon TF	50.00	40.85	81.71	80-120	
Methyl acetate	50.00	48.86	97.72	80-120	
Cyclohexane	50.00	40.96	81.93	80-120	
Methylcyclohexane	50.00	49.74	99.50	80-120	
Carbon Disulfide	100.00	81.89	81.90	80-120	
2-Hexanone	100.00	105.20	105.21	80-120	
1,1,2-Trichloroeth	50.00	47.32	94.66	80-120	
1,1-Dichloroethane	50.00	44.17	88.36	80-120	
1,1-Dichloroethene	50.00	41.61	83.22	80-120	
1,1-Dichloropropen	50.00	44.65	89.32	80-120	
1,2,3-Trichloroben	50.00	51.16	102.32	80-120	
1,2,3-Trichloropro	50.00	51.61	103.23	80-120	
1,2,4-Trichloroben	50.00	51.25	102.51	80-120	
1,2,4-Trimethylben	50.00	45.63	91.26	80-120	
1,2-Dibromo-3-Chlo	50.00	49.26	98.52	80-120	
1,2-Dibromoethane	50.00	50.57	101.16	80-120	
Acrolein	100.00	86.85	86.86	80-120	
Acrylonitrile	100.00	97.67	97.67	80-120	
1,2-Dichlorobenzen	50.00	48.96	97.93	80-120	
1,2-Dichloroethane	50.00	53.28	106.57	80-120	
1,2-Dichloropropan	50.00	48.34	96.70	80-120	
1,3,5-Trimethylben	50.00	45.34	90.70	80-120	
1,3-Dichlorobenzen	50.00	46.63	93.26	80-120	
1,3-Dichloropropan	50.00	49.10	98.22	80-120	
1,4-Dichlorobenzen	50.00	46.12	92.26	80-120	
1-Chlorohexane	50.00	44.21	88.42	80-120	
2,2-Dichloropropan	50.00	45.47	90.95	80-120	
2-Butanone	100.00	107.54	107.54	80-120	
2-Chloroethylvinyl	100.00	106.60	106.60	80-120	
2-Chlorotoluene	50.00	47.06	94.13	80-120	
4-Chlorotoluene	50.00	49.27	98.56	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430425

Instrument ID voa6.i ICAL Date 17-MAR-2023
Lab File ID X031713.D ICAL Time 1355
?VAL? ?VAL? Conc Units ug/L
Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.00	44.79	89.58	80-120	
4-Methyl-2-Pentano	100.00	103.09	103.09	80-120	
Acetone	100.00	115.87	115.88	80-120	
Acetonitrile	500.00	479.23	95.85	80-120	
Allyl Chloride	50.00	44.91	89.83	80-120	
Benzene	50.00	46.73	93.47	80-120	
Bromobenzene	50.00	48.59	97.20	80-120	
Bromochloromethane	50.00	44.80	89.62	80-120	
Bromodichlorometha	50.00	50.86	101.73	80-120	
Bromoform	50.00	50.40	100.80	80-120	
Bromomethane	50.00	52.24	104.49	80-120	
Carbon Tetrachlori	50.00	43.04	86.09	80-120	
Chlorobenzene	50.00	46.07	92.16	80-120	
Chloroethane	50.00	42.66	85.33	80-120	
Chloroform	50.00	46.58	93.17	80-120	
Chloromethane	50.00	46.05	92.11	80-120	
Chloroprene	50.00	41.81	83.63	80-120	
cis-1,2-Dichloroet	50.00	43.18	86.37	80-120	
cis-1,3-Dichloropr	50.00	51.12	102.25	80-120	
Dibromochlorometha	50.00	48.25	96.51	80-120	
Dibromomethane	50.00	50.81	101.63	80-120	
Dichlorodifluorome	50.00	41.35	82.71	80-120	
Ethylbenzene	50.00	43.74	87.48	80-120	
Ethyl Methacrylate	50.00	45.45	90.91	80-120	
Iodomethane	100.00	98.16	98.17	80-120	
Isobutyl Alcohol	1000.00	1059.98	106.00	70-130	
Propionitrile	500.00	477.22	95.45	70-130	
Hexachlorobutadien	50.00	48.89	97.80	80-120	
Isopropylbenzene	50.00	42.85	85.70	80-120	
m,p-Xylenes	100.00	88.22	88.23	80-120	
Methyl tert-butyl	50.00	44.90	89.82	80-120	
Methylene Chloride	50.00	45.58	91.17	80-120	
Methacrylonitrile	50.00	50.48	100.97	80-120	
Methyl Methacrylat	50.00	51.29	102.58	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430425

Instrument ID voa6.i ICAL Date 17-MAR-2023
Lab File ID X031713.D ICAL Time 1355
?VAL? ?VAL? Conc Units ug/L
Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.00	49.41	98.82	80-120	
n-Propylbenzene	50.00	45.80	91.61	80-120	
Naphthalene	50.00	53.24	106.49	80-120	
o-Xylene	50.00	44.53	89.08	80-120	
sec-Butylbenzene	50.00	42.06	84.13	80-120	
Styrene	50.00	48.45	96.92	80-120	
tert-Butylbenzene	50.00	42.95	85.91	80-120	
Tetrachloroethene	50.00	42.56	85.13	80-120	
Toluene	50.00	45.79	91.60	80-120	
trans-1,2-Dichloro	50.00	42.69	85.40	80-120	
trans-1,3-Dichloro	50.00	53.42	106.85	80-120	
trans-1,4-Dichloro	50.00	52.13	104.27	80-120	
Trichloroethene	50.00	42.62	85.25	80-120	
Trichlorofluoromet	50.00	44.23	88.48	80-120	
Vinyl Acetate	100.00	104.31	104.32	80-120	
Vinyl Chloride	50.00	45.61	91.22	80-120	
1,2-Dichloroethyle	100.00	85.88	85.88	80-120	
Xylenes (total)	150.00	132.76	88.51	80-120	
1,4-Dioxane	1000.00	949.60	94.96	80-120	
Dibromofluorometha	50.00	53.33	106.66	71-125	
1,2-Dichloroethane	50.00	53.95	107.91	70-125	
Toluene-d8	50.00	49.38	98.76	75-125	
4-Bromofluorobenze	50.00	52.50	105.01	72-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA 8260

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430844

Instrument ID voa6.i Injection Date 23-MAR-2023 1108
Lab File ID X032303.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00663	0.00626	0.00626	0.001	5.67899	20.0	Averaged	
1,3-Butadiene	0.33908	0.26976	0.26976	0.100	20.44525	20.0	Averaged	<-
Methacrylonitrile	0.46082	0.41830	0.41830	0.100	9.22684	20.0	Averaged	
Isobutyl Alcohol	0.06822	0.06266	0.06266	0.005	8.15098	20.0	Averaged	
Acetonitrile	0.04653	0.04088	0.04088	0.005	12.14890	20.0	Averaged	
Allyl Chloride	1.15102	0.99584	0.99584	0.100	13.48219	20.0	Averaged	
Propionitrile	0.07045	0.06736	0.06736	0.010	4.38629	20.0	Averaged	
Tetrahydrofuran	0.08165	0.08077	0.08077	0.001	1.07071	20.0	Averaged	
alpha-Methylstyrene	1.09009	1.05971	1.05971	0.100	2.78726	20.0	Averaged	
Diisopropyl ether	1.55229	1.27734	1.27734	0.100	17.71249	20.0	Averaged	
Epichlorohydrin	0.02852	0.03052	0.03052	0.001	-6.98464	20.0	Averaged	
1,2,3-Trimethylbenzene	2.39781	2.22360	2.22360	0.100	7.26519	20.0	Averaged	
Dichlorodifluoromethane	50.0	44.37325	0.30139	0.100	11.25350	20.0	Quadratic	
Chloromethane	0.45993	0.42445	0.42445	0.100	7.71409	20.0	Averaged	
Vinyl Chloride	0.39382	0.33404	0.33404	0.100	15.18051	20.0	Averaged	
Bromomethane	0.22643	0.22895	0.22895	0.100	-1.11314	20.0	Averaged	
Chloroethane	0.27929	0.22346	0.22346	0.100	19.99119	20.0	Averaged	
Trichlorofluoromethane	0.46712	0.41788	0.41788	0.100	10.54121	20.0	Averaged	
Acrolein	100	73.59405	0.02067	0.010	26.40595	20.0	Linear	<-
Acetone	100	92.32517	0.12130	0.100	7.67483	20.0	Linear	
1,1-Dichloroethene	0.30026	0.25829	0.25829	0.100	13.97581	20.0	Averaged	
Iodomethane	100	113	0.40719	0.100	-13.24848	20.0	Quadratic	
Acrylonitrile	0.16685	0.15653	0.15653	0.050	6.18496	20.0	Averaged	
Methylene Chloride	50.0	45.91878	0.45029	0.100	8.16245	20.0	Linear	
Methyl tert-butyl ether	1.58098	1.38909	1.38909	0.100	12.13742	20.0	Averaged	
Carbon Disulfide	1.10319	0.90918	0.90918	0.100	17.58605	20.0	Averaged	
trans-1,2-Dichloroethene	0.42349	0.37613	0.37613	0.100	11.18304	20.0	Averaged	
Vinyl Acetate	1.27609	1.18823	1.18823	0.010	6.88532	20.0	Averaged	
1,1-Dichloroethane	0.76698	0.66248	0.66248	0.200	13.62544	20.0	Averaged	
2-Butanone	0.17902	0.17243	0.17243	0.100	3.68494	20.0	Averaged	
2,2-Dichloropropane	50.0	45.67431	0.55218	0.100	8.65138	20.0	Linear	
cis-1,2-Dichloroethene	0.51249	0.45802	0.45802	0.100	10.62835	20.0	Averaged	
Chloroform	0.85126	0.72992	0.72992	0.200	14.25431	20.0	Averaged	
Bromochloromethane	0.29002	0.25675	0.25675	0.100	11.46948	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430844

Instrument ID voa6.i Injection Date 23-MAR-2023 1108
Lab File ID X032303.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dibromofluoromethane	50.0	48.78854	0.45479	0.100	2.42292	20.0	Linear	
1,1,1-Trichloroethane	0.63658	0.55859	0.55859	0.100	12.25037	20.0	Averaged	
1,1-Dichloropropene	0.35675	0.32364	0.32364	0.100	9.28109	20.0	Averaged	
1,2-Dichloroethane	0.41566	0.39513	0.39513	0.100	4.93831	20.0	Averaged	
Carbon Tetrachloride	0.34151	0.30793	0.30793	0.100	9.83383	20.0	Averaged	
1,2-Dichloroethane-d4	50.0	45.98331	0.49484	0.100	8.03338	20.0	Linear	
Benzene	1.22946	1.12799	1.12799	0.500	8.25328	20.0	Averaged	
Trichloroethene	0.33116	0.31741	0.31741	0.200	4.15116	20.0	Averaged	
Bromodichloromethane	0.43642	0.41370	0.41370	0.200	5.20666	20.0	Averaged	
2-Chloroethylvinyl ether	0.13269	0.13357	0.13357	0.001	-0.66722	20.0	Averaged	
1,2-Dichloropropane	0.33133	0.30534	0.30534	0.100	7.84187	20.0	Averaged	
Dibromomethane	0.21134	0.20922	0.20922	0.100	1.00278	20.0	Averaged	
4-Methyl-2-Pentanone	0.31636	0.31812	0.31812	0.100	-0.55614	20.0	Averaged	
cis-1,3-Dichloropropene	0.55123	0.54838	0.54838	0.200	0.51662	20.0	Averaged	
Toluene-d8	1.23950	1.21024	1.21024	0.100	2.36131	20.0	Averaged	
Toluene	1.31183	1.24865	1.24865	0.400	4.81605	20.0	Averaged	
trans-1,3-Dichloropropene	0.45762	0.47108	0.47108	0.100	-2.94148	20.0	Averaged	
2-Hexanone	0.21713	0.22354	0.22354	0.100	-2.95142	20.0	Averaged	
1,1,2-Trichloroethane	0.28521	0.27277	0.27277	0.100	4.36176	20.0	Averaged	
1,3-Dichloropropane	0.56683	0.55191	0.55191	0.100	2.63204	20.0	Averaged	
Dibromochloromethane	0.40290	0.40109	0.40109	0.100	0.44994	20.0	Averaged	
Tetrachloroethene	0.26297	0.24780	0.24780	0.200	5.76843	20.0	Averaged	
1,2-Dibromoethane	0.35253	0.36904	0.36904	0.100	-4.68384	20.0	Averaged	
1-Chlorohexane	50.0	43.22601	0.20485	0.100	13.54798	20.0	Linear	
Chlorobenzene	0.93747	0.91764	0.91764	0.500	2.11546	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36126	0.36076	0.36076	0.100	0.13949	20.0	Averaged	
Ethylbenzene	0.46137	0.42913	0.42913	0.100	6.98708	20.0	Averaged	
m,p-Xylenes	0.58063	0.55226	0.55226	0.100	4.88513	20.0	Averaged	
o-Xylene	0.58343	0.55738	0.55738	0.300	4.46501	20.0	Averaged	
Styrene	0.96405	0.98652	0.98652	0.300	-2.33060	20.0	Averaged	
Bromoform	0.27859	0.31111	0.31111	0.100	-11.67245	20.0	Averaged	
Isopropylbenzene	1.33626	1.21553	1.21553	0.100	9.03463	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.87122	0.89385	0.89385	0.300	-2.59757	20.0	Averaged	
4-Bromofluorobenzene	50.0	51.40459	0.48662	0.100	-2.80918	20.0	Linear	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430844

Instrument ID voa6.i Injection Date 23-MAR-2023 1108
Lab File ID X032303.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2,3-Trichloropropane	0.65476	0.75914	0.75914	0.100	-15.94117	20.0	Averaged	
n-Propylbenzene	2.77894	2.53527	2.53527	0.100	8.76823	20.0	Averaged	
Bromobenzene	0.80387	0.80078	0.80078	0.100	0.38356	20.0	Averaged	
1,3,5-Trimethylbenzene	2.15544	1.97016	1.97016	0.100	8.59586	20.0	Averaged	
2-Chlorotoluene	1.86840	1.72693	1.72693	0.100	7.57178	20.0	Averaged	
4-Chlorotoluene	2.10589	2.01039	2.01039	0.100	4.53484	20.0	Averaged	
tert-Butylbenzene	1.71676	1.54307	1.54307	0.100	10.11721	20.0	Averaged	
1,2,4-Trimethylbenzene	2.21056	2.07949	2.07949	0.100	5.92896	20.0	Averaged	
sec-Butylbenzene	2.32687	2.02959	2.02959	0.100	12.77579	20.0	Averaged	
p-Isopropyltoluene	2.07629	1.92490	1.92490	0.100	7.29147	20.0	Averaged	
1,3-Dichlorobenzene	1.39033	1.35263	1.35263	0.600	2.71104	20.0	Averaged	
1,4-Dichlorobenzene	1.49428	1.40716	1.40716	0.400	5.83063	20.0	Averaged	
n-Butylbenzene	1.67342	1.55708	1.55708	0.500	6.95248	20.0	Averaged	
1,2-Dichlorobenzene	1.39061	1.39033	1.39033	0.400	0.02015	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	55.64399	0.17912	0.040	-11.28799	20.0	Linear	
1,2,4-Trichlorobenzene	1.01667	1.06665	1.06665	0.100	-4.91643	20.0	Averaged	
Hexachlorobutadiene	50.0	46.81094	0.36905	0.100	6.37811	20.0	Quadratic	
Naphthalene	2.44011	2.76797	2.76797	0.200	-13.43645	20.0	Averaged	
1,2,3-Trichlorobenzene	0.97286	1.03383	1.03383	0.010	-6.26713	20.0	Averaged	
1,2-Dichloroethylene (total	0.46799	0.41707	0.41707	0.200	10.87933	20.0	Averaged	
Xylenes (total)	0.55485	0.54298	0.54298	0.100	2.13872	20.0	Averaged	
Cyclohexane	50.0	40.73092	0.42873	0.100	18.53817	20.0	Quadratic	
Freon TF	50.0	44.93508	0.24783	0.100	10.12984	20.0	Quadratic	
Methylcyclohexane	0.69037	0.69299	0.69299	0.100	-0.38005	20.0	Averaged	
Methyl Acetate	0.28739	0.28790	0.28790	0.100	-0.17612	20.0	Averaged	
Tert-butyl alcohol	0.05236	0.05068	0.05068	0.005	3.20625	20.0	Averaged	
Isopropyl alcohol	0.02798	0.02593	0.02593	0.005	7.32893	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430844

Instrument ID voa6.i Injection Date 23-MAR-2023 1542
Lab File ID X032316.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00663	0.00617	0.00617	0.001	7.01975	50.0	Averaged	
1,3-Butadiene	0.33908	0.25726	0.25726	0.100	24.13238	50.0	Averaged	
Methacrylonitrile	0.46082	0.44552	0.44552	0.100	3.32008	50.0	Averaged	
Isobutyl Alcohol	0.06822	0.06537	0.06537	0.005	4.16813	50.0	Averaged	
Acetonitrile	0.04653	0.04171	0.04171	0.005	10.36156	50.0	Averaged	
Allyl Chloride	1.15102	1.01860	1.01860	0.100	11.50447	50.0	Averaged	
Propionitrile	0.07045	0.06890	0.06890	0.010	2.20747	50.0	Averaged	
Tetrahydrofuran	0.08165	0.07683	0.07683	0.001	5.90590	50.0	Averaged	
alpha-Methylstyrene	1.09009	1.01658	1.01658	0.100	6.74345	50.0	Averaged	
Diisopropyl ether	1.55229	1.38474	1.38474	0.100	10.79327	50.0	Averaged	
Epichlorohydrin	0.02852	0.02980	0.02980	0.001	-4.47433	50.0	Averaged	
1,2,3-Trimethylbenzene	2.39781	2.22130	2.22130	0.100	7.36105	50.0	Averaged	
Dichlorodifluoromethane	50.0	41.82348	0.28327	0.100	16.35304	50.0	Quadratic	
Chloromethane	0.45993	0.38605	0.38605	0.100	16.06245	50.0	Averaged	
Vinyl Chloride	0.39382	0.32152	0.32152	0.100	18.35986	50.0	Averaged	
Bromomethane	0.22643	0.20549	0.20549	0.100	9.24962	50.0	Averaged	
Chloroethane	0.27929	0.26020	0.26020	0.100	6.83717	50.0	Averaged	
Trichlorofluoromethane	0.46712	0.40511	0.40511	0.100	13.27504	50.0	Averaged	
Acrolein	100	75.09844	0.02111	0.010	24.90156	50.0	Linear	
Acetone	100	81.38386	0.10769	0.100	18.61614	50.0	Linear	
1,1-Dichloroethene	0.30026	0.25491	0.25491	0.100	15.10246	50.0	Averaged	
Iodomethane	100	104	0.36814	0.100	-3.78970	50.0	Quadratic	
Acrylonitrile	0.16685	0.15530	0.15530	0.050	6.92490	50.0	Averaged	
Methylene Chloride	50.0	49.09298	0.48029	0.100	1.81404	50.0	Linear	
Methyl tert-butyl ether	1.58098	1.46167	1.46167	0.100	7.54649	50.0	Averaged	
Carbon Disulfide	1.10319	0.93300	0.93300	0.100	15.42707	50.0	Averaged	
trans-1,2-Dichloroethene	0.42349	0.38656	0.38656	0.100	8.72104	50.0	Averaged	
Vinyl Acetate	1.27609	1.19376	1.19376	0.010	6.45153	50.0	Averaged	
1,1-Dichloroethane	0.76698	0.68499	0.68499	0.200	10.68964	50.0	Averaged	
2-Butanone	0.17902	0.17025	0.17025	0.100	4.90255	50.0	Averaged	
2,2-Dichloropropane	50.0	43.25208	0.52305	0.100	13.49584	50.0	Linear	
cis-1,2-Dichloroethene	0.51249	0.47716	0.47716	0.100	6.89382	50.0	Averaged	
Chloroform	0.85126	0.74616	0.74616	0.200	12.34647	50.0	Averaged	
Bromochloromethane	0.29002	0.26301	0.26301	0.100	9.31085	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430844

Instrument ID voa6.i Injection Date 23-MAR-2023 1542
Lab File ID X032316.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dibromofluoromethane	50.0	50.86554	0.47385	0.100	-1.73108	50.0	Linear	
1,1,1-Trichloroethane	0.63658	0.55650	0.55650	0.100	12.57950	50.0	Averaged	
1,1-Dichloropropene	0.35675	0.30310	0.30310	0.100	15.03839	50.0	Averaged	
1,2-Dichloroethane	0.41566	0.38508	0.38508	0.100	7.35631	50.0	Averaged	
Carbon Tetrachloride	0.34151	0.28799	0.28799	0.100	15.67250	50.0	Averaged	
1,2-Dichloroethane-d4	50.0	47.43526	0.51083	0.100	5.12948	50.0	Linear	
Benzene	1.22946	1.11724	1.11724	0.500	9.12761	50.0	Averaged	
Trichloroethene	0.33116	0.31377	0.31377	0.200	5.25065	50.0	Averaged	
Bromodichloromethane	0.43642	0.40934	0.40934	0.200	6.20625	50.0	Averaged	
2-Chloroethylvinyl ether	0.13269	0.12294	0.12294	0.001	7.34564	50.0	Averaged	
1,2-Dichloropropane	0.33133	0.30332	0.30332	0.100	8.45124	50.0	Averaged	
Dibromomethane	0.21134	0.20530	0.20530	0.100	2.85732	50.0	Averaged	
4-Methyl-2-Pentanone	0.31636	0.31585	0.31585	0.100	0.15939	50.0	Averaged	
cis-1,3-Dichloropropene	0.55123	0.52466	0.52466	0.200	4.82066	50.0	Averaged	
Toluene-d8	1.23950	1.26469	1.26469	0.100	-2.03188	50.0	Averaged	
Toluene	1.31183	1.25585	1.25585	0.400	4.26712	50.0	Averaged	
trans-1,3-Dichloropropene	0.45762	0.44399	0.44399	0.100	2.97912	50.0	Averaged	
2-Hexanone	0.21713	0.21043	0.21043	0.100	3.08660	50.0	Averaged	
1,1,2-Trichloroethane	0.28521	0.27443	0.27443	0.100	3.78009	50.0	Averaged	
1,3-Dichloropropane	0.56683	0.56338	0.56338	0.100	0.60855	50.0	Averaged	
Dibromochloromethane	0.40290	0.40475	0.40475	0.100	-0.45806	50.0	Averaged	
Tetrachloroethene	0.26297	0.24249	0.24249	0.200	7.79039	50.0	Averaged	
1,2-Dibromoethane	0.35253	0.36811	0.36811	0.100	-4.42086	50.0	Averaged	
1-Chlorohexane	50.0	38.31589	0.18031	0.100	23.36823	50.0	Linear	
Chlorobenzene	0.93747	0.89343	0.89343	0.500	4.69813	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36126	0.35375	0.35375	0.100	2.08002	50.0	Averaged	
Ethylbenzene	0.46137	0.41576	0.41576	0.100	9.88453	50.0	Averaged	
m,p-Xylenes	0.58063	0.53078	0.53078	0.100	8.58503	50.0	Averaged	
o-Xylene	0.58343	0.53886	0.53886	0.300	7.63930	50.0	Averaged	
Styrene	0.96405	0.96243	0.96243	0.300	0.16787	50.0	Averaged	
Bromoform	0.27859	0.30330	0.30330	0.100	-8.87137	50.0	Averaged	
Isopropylbenzene	1.33626	1.17539	1.17539	0.100	12.03836	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.87122	0.84890	0.84890	0.300	2.56247	50.0	Averaged	
4-Bromofluorobenzene	50.0	52.02366	0.49246	0.100	-4.04733	50.0	Linear	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID VOA6_430844

Instrument ID voa6.i Injection Date 23-MAR-2023 1542
Lab File ID X032316.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2,3-Trichloropropane	0.65476	0.70301	0.70301	0.100	-7.36883	50.0	Averaged	
n-Propylbenzene	2.77894	2.40494	2.40494	0.100	13.45846	50.0	Averaged	
Bromobenzene	0.80387	0.78292	0.78292	0.100	2.60573	50.0	Averaged	
1,3,5-Trimethylbenzene	2.15544	1.91087	1.91087	0.100	11.34657	50.0	Averaged	
2-Chlorotoluene	1.86840	1.65888	1.65888	0.100	11.21397	50.0	Averaged	
4-Chlorotoluene	2.10589	1.91432	1.91432	0.100	9.09694	50.0	Averaged	
tert-Butylbenzene	1.71676	1.49679	1.49679	0.100	12.81309	50.0	Averaged	
1,2,4-Trimethylbenzene	2.21056	2.04071	2.04071	0.100	7.68324	50.0	Averaged	
sec-Butylbenzene	2.32687	1.93509	1.93509	0.100	16.83731	50.0	Averaged	
p-Isopropyltoluene	2.07629	1.85944	1.85944	0.100	10.44428	50.0	Averaged	
1,3-Dichlorobenzene	1.39033	1.30842	1.30842	0.600	5.89123	50.0	Averaged	
1,4-Dichlorobenzene	1.49428	1.36211	1.36211	0.400	8.84521	50.0	Averaged	
n-Butylbenzene	1.67342	1.45055	1.45055	0.500	13.31853	50.0	Averaged	
1,2-Dichlorobenzene	1.39061	1.34449	1.34449	0.400	3.31640	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	51.58149	0.16568	0.040	-3.16297	50.0	Linear	
1,2,4-Trichlorobenzene	1.01667	1.00199	1.00199	0.100	1.44389	50.0	Averaged	
Hexachlorobutadiene	50.0	41.54602	0.32387	0.100	16.90797	50.0	Quadratic	
Naphthalene	2.44011	2.54092	2.54092	0.200	-4.13159	50.0	Averaged	
1,2,3-Trichlorobenzene	0.97286	0.97121	0.97121	0.010	0.17002	50.0	Averaged	
1,2-Dichloroethylene (total	0.46799	0.43186	0.43186	0.200	7.72056	50.0	Averaged	
Xylenes (total)	0.55485	0.50079	0.50079	0.100	9.74304	50.0	Averaged	
Cyclohexane	50.0	40.32190	0.42408	0.100	19.35621	50.0	Quadratic	
Freon TF	50.0	41.00338	0.22477	0.100	17.99324	50.0	Quadratic	
Methylcyclohexane	0.69037	0.67250	0.67250	0.100	2.58806	50.0	Averaged	
Methyl Acetate	0.28739	0.28454	0.28454	0.100	0.99030	50.0	Averaged	
Tert-butyl alcohol	0.05236	0.05051	0.05051	0.005	3.52691	50.0	Averaged	
Isopropyl alcohol	0.02798	0.02666	0.02666	0.005	4.71471	50.0	Averaged	

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Form 8

Internal Standard Area and RT Summary

Volatiles by EPA 8260

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

RunID
VOA6_430844

		IS1				IS2				IS3				IS4			
Sample ID	File ID	Area		RT		Area		RT		Area		RT		Area		RT	
12-HOUR STD (CCV)	X032303	302512	#	4.18	#	446383	#	4.97	#	437528	#	7.67	#	247503	#	9.66	#
CCB	X032304	441641		4.18		620752		4.97		556662		7.67		284770		9.66	
VLCSW-230323	X032305	326763		4.18		492457		4.97		462766		7.67		255337		9.66	
VBLKW-230323	X032307	450970		4.18		625633		4.97		544501		7.67		282886		9.66	
HS23031291-03	X032309	435237		4.18		606873		4.97		536344		7.67		285883		9.66	
HS23031291-01	X032311	457317		4.18		643786		4.97		552502		7.67		283942		9.66	
HS23031291-01MS	X032314	444118		4.18		618130		4.97		541471		7.67		293386		9.66	
HS23031291-01MSD	X032315	465682		4.18		646301		4.97		577013		7.67		316378		9.66	
CCV-END	X032316	287924		4.18		445431		4.97		418139		7.67		236156		9.66	

IS1 - Pentafluorobenzene IS2 - 1,4-Difluorobenzene IS3 - Chlorobenzene-d5 IS4 - 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention Time IS - Internal Standard

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

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Analysis Run Log

Volatiles by EPA 8260

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

RunID
VOA6_430425

Run ID VOA6_430425 **Start Date** 03/17/23 **EndDate** 03/17/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
11:08	BFB	TUNE	BFB	X031701.D	03/17/23	1
11:29	VSTD000.25	ICAL1	VSTD000.25	X031702.D	03/17/23	1
12:11	VSTD000.5	ICAL2	VSTD000.5	X031703.D	03/17/23	1
12:32	VSTD001	ICAL3	VSTD001	X031704.D	03/17/23	1
12:53	VSTD002	ICAL4	VSTD002	X031705.D	03/17/23	1
13:14	VSTD005	ICAL5	VSTD005	X031706.D	03/17/23	1
13:35	VSTD020	ICAL6	VSTD020	X031707.D	03/17/23	1
13:55	VSTD050	ICAL7	VSTD050	X031708.D	03/17/23	1
14:16	VSTD100	ICAL8	VSTD100	X031709.D	03/17/23	1
14:37	VSTD150	ICAL9	VSTD150	X031710.D	03/17/23	1
14:58	VSTD200	ICAL	VSTD200	X031711.D	03/17/23	1
15:40	CCV	ICV	CCV	X031713.D	03/17/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

RunID
VOA6_430844

Run ID VOA6_430844 **Start Date** 03/23/23 **EndDate** 03/23/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:26	BFB	TUNE	BFB	X032301.D	03/23/23	1
11:08	CCV	CCV	CCV	X032303.D	03/23/23	1
11:29	CCB	CCB	CCB	X032304.D	03/23/23	1
11:50	VLCSW-230323	LCS	VLCSW-230323	X032305.D	03/23/23	1
12:33	VBLKW-230323	MBLK	VBLKW-230323	X032307.D	03/23/23	1
12:54	ZZZZZZZZZZ	SAMP	HS23031275-01	X032308.D	03/23/23	1
13:15	Trip Blank	SAMP	HS23031291-03	X032309.D	03/23/23	1
13:36	ZZZZZZZZZZ	SAMP	HS23031294-02	X032310.D	03/23/23	1
13:57	LH18/24-SP650_032123	SAMP	HS23031291-01	X032311.D	03/23/23	1
14:18	ZZZZZZZZZZ	SAMP	HS23031294-01	X032312.D	03/23/23	5
14:39	ZZZZZZZZZZ	SAMP	HS23031294-01	X032313.D	03/23/23	50
15:00	HS23031291-01MS	MS	HS23031291-01MS	X032314.D	03/23/23	1
15:21	HS23031291-01MSD	MSD	HS23031291-01MSD	X032315.D	03/23/23	1
15:42	CCV-END	CCV_END	CCV-END	X032316.D	03/23/23	1

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Raw Data VOA6 430425

Volatiles by EPA 8260

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031701.D Page 1
Report Date: 17-Mar-2023 12:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031701.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 17-MAR-2023 11:08
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.691	8.889	(0.000)	95	77928			0.00- 100.00	100.00
8.691	8.889	(0.000)	50	11882			15.00- 40.00	15.25
8.691	8.889	(0.000)	75	34576			30.00- 60.00	44.37
8.691	8.889	(0.000)	96	5353			5.00- 9.00	6.87
8.691	8.889	(0.000)	173	519			0.00- 2.00	0.81
8.691	8.889	(0.000)	174	64408			50.00- 0.00	82.65
8.691	8.889	(0.000)	175	4678			5.00- 9.00	7.26
8.691	8.889	(0.000)	176	63808			95.00- 101.00	99.07
8.691	8.889	(0.000)	177	3978			5.00- 9.00	6.23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.25
75	30.00 - 60.00% of mass 95	44.37
96	5.00 - 9.00% of mass 95	6.87
173	Less than 2.00% of mass 174	0.67 (0.81)
174	Greater than 50.00% of mass 95	82.65
175	5.00 - 9.00% of mass 174	6.00 (7.26)
176	95.00 - 101.00% of mass 174	81.88 (99.07)
177	5.00 - 9.00% of mass 176	5.10 (6.23)

Data File: X031701.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	483	64.20	161	93.00	2513	139.80	71
37.00	2843	64.80	68	94.00	7408	140.80	587
38.00	2608	66.90	121	95.00	77928	141.80	95
38.90	991	68.00	5827	96.00	5353	142.90	519
40.00	1074	69.00	6800	97.00	335	144.90	63
42.80	102	70.00	597	103.80	383	145.80	135
44.00	1173	72.10	324	104.80	95	147.80	183
45.00	711	72.90	2604	105.80	183	153.80	69
47.20	912	74.00	11145	107.10	110	154.70	87
47.80	316	75.00	34576	112.60	99	157.00	123
49.00	2575	76.10	2966	114.90	107	159.00	52
50.10	11882	76.90	658	116.00	188	160.90	61
51.00	3681	78.10	369	117.00	484	172.10	63
51.90	205	79.00	1540	117.90	236	173.00	519
55.00	261	79.90	570	119.00	361	173.90	64408
56.00	1067	80.90	1492	127.90	189	174.90	4678
57.10	1577	81.90	352	128.80	166	175.90	63808
60.00	520	86.90	3159	130.10	197	177.00	3978
61.00	2432	88.00	3204	130.70	63	177.80	61
62.10	3141	90.90	299	134.80	57	186.00	56
63.00	1965	91.90	2149	136.90	119		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031701.D Page 1

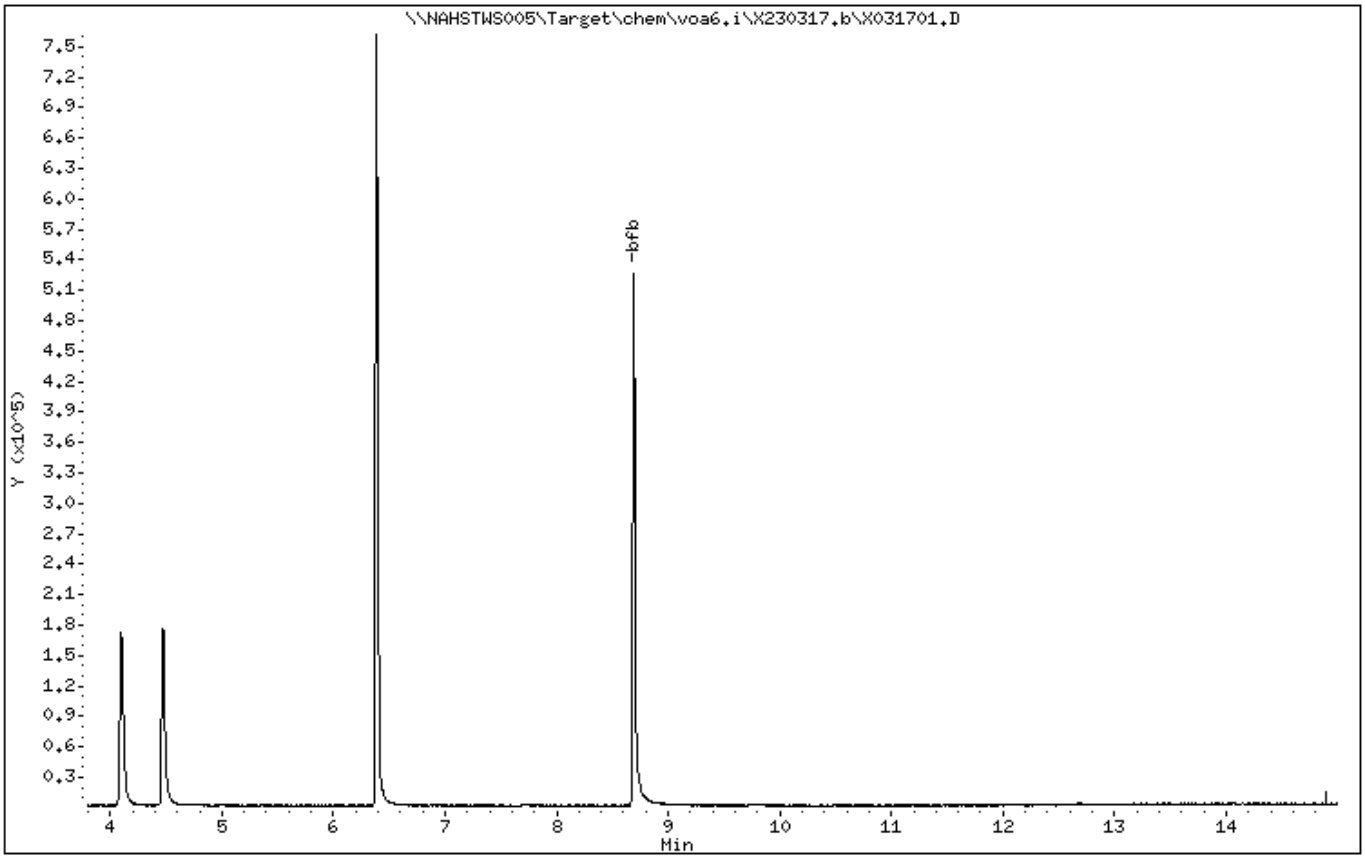
Date : 17-MAR-2023 11:08

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031701.D Page 2

Date : 17-MAR-2023 11:08

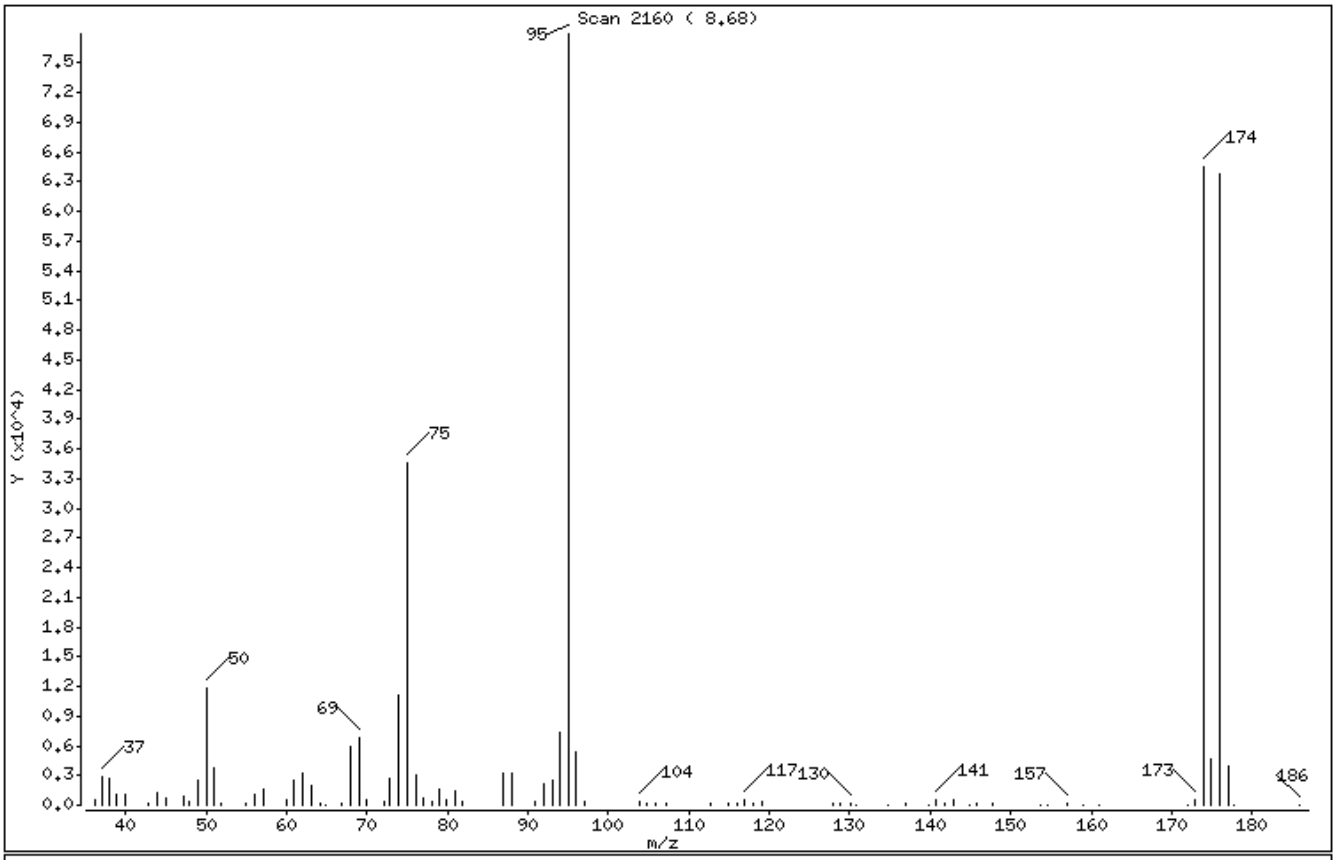
Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.25
75	30.00 - 60.00% of mass 95	44.37
96	5.00 - 9.00% of mass 95	6.87
173	Less than 2.00% of mass 174	0.67 (0.81)
174	Greater than 50.00% of mass 95	82.65
175	5.00 - 9.00% of mass 174	6.00 (7.26)
176	95.00 - 101.00% of mass 174	81.88 (99.07)
177	5.00 - 9.00% of mass 176	5.10 (6.23)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031701.D

Date : 17-MAR-2023 11:08

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

Data File: X031701.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	483	64.20	161	93.00	2513	139.80	71
37.00	2843	64.80	68	94.00	7408	140.80	587
38.00	2608	66.90	121	95.00	77928	141.80	95
38.90	991	68.00	5827	96.00	5353	142.90	519
40.00	1074	69.00	6800	97.00	335	144.90	63
42.80	102	70.00	597	103.80	383	145.80	135
44.00	1173	72.10	324	104.80	95	147.80	183
45.00	711	72.90	2604	105.80	183	153.80	69
47.20	912	74.00	11145	107.10	110	154.70	87
47.80	316	75.00	34576	112.60	99	157.00	123
49.00	2575	76.10	2966	114.90	107	159.00	52
50.10	11882	76.90	658	116.00	188	160.90	61
51.00	3681	78.10	369	117.00	484	172.10	63
51.90	205	79.00	1540	117.90	236	173.00	519
55.00	261	79.90	570	119.00	361	173.90	64408
56.00	1067	80.90	1492	127.90	189	174.90	4678
57.10	1577	81.90	352	128.80	166	175.90	63808
60.00	520	86.90	3159	130.10	197	177.00	3978
61.00	2432	88.00	3204	130.70	63	177.80	61
62.10	3141	90.90	299	134.80	57	186.00	56
63.00	1965	91.90	2149	136.90	119		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031702.D Page 1
Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031702.D
Lab Smp Id: VSTD000.25 Client Smp ID: VSTD000.25
Inj Date : 17-MAR-2023 11:29
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.25;VSTD000.25;1;1;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 14:58 Cal File: X031711.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

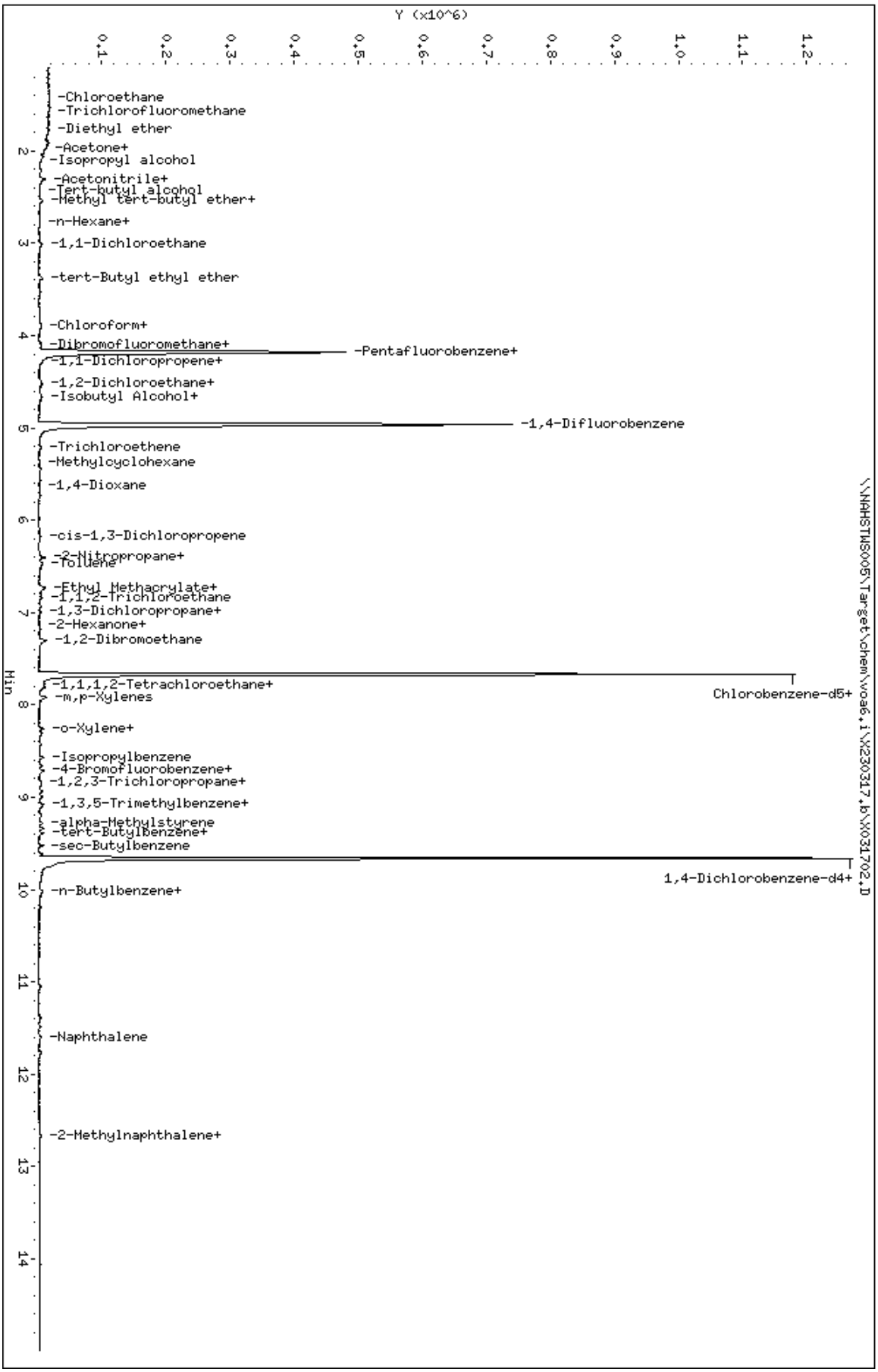
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.177	4.177	(1.000)	400786	50.0000	
	7 Chloroethane	64	1.422	1.422	(0.341)	10096	0.25000	4.50
	13 Acetonitrile	39	2.209	2.209	(0.529)	1322	2.50000	3.54(a)
	15 Iodomethane	142	2.018	2.018	(0.483)	690	0.50000	9.50(T)
$	35 1,2-Dichloroethane-d4	65	4.485	4.485	(1.074)	2180	0.25000	1.54(T)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	631509	50.0000	
	43 2-Nitropropane	43	6.348	6.348	(1.520)	1735	0.25000	1.37(a)
	45 4-Methyl-2-Pentanone	43	6.348	6.348	(0.828)	1735	0.50000	0.45(a)
	46 cis-1,3-Dichloropropene	75	6.172	6.172	(1.243)	1780	0.25000	0.25(a)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	600997	50.0000	
$	48 Toluene-d8	98	6.400	6.400	(0.835)	7389	0.25000	0.49(a)
	49 Ethyl Methacrylate	69	6.734	6.734	(1.356)	2434	0.25000	0.52(a)
	50 Toluene	91	6.460	6.460	(0.843)	4871	0.25000	0.30(a)
	52 2-Hexanone	43	7.143	7.143	(0.932)	1044	0.50000	0.40(Ta)
	53 1,1,2-Trichloroethane	83	6.846	6.846	(0.893)	1065	0.25000	0.31(a)
	54 1,3-Dichloropropane	76	6.993	6.993	(0.912)	1955	0.25000	0.28(a)
	55 Dibromochloromethane	129	7.184	7.184	(0.937)	1479	0.25000	0.30(a)
	56 Tetrachloroethene	164	6.933	6.933	(0.904)	944	0.25000	0.29(a)
	57 1,2-Dibromoethane	107	7.274	7.274	(0.949)	1129	0.25000	0.26(a)
	58 1-Chlorohexane	55	7.705	7.705	(1.552)	969	0.25000	2.54(a)

59 Chlorobenzene	112	7.694	7.694 (1.003)	3426	0.25000	0.30(a)
60 1,1,1,2-Tetrachloroethane	131	7.780	7.780 (1.015)	1296	0.25000	0.29(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	61 Ethylbenzene	106	7.814	7.814	(1.019)	1903	0.25000	0.34(a)
	62 m,p-Xylenes	106	7.915	7.915	(1.032)	3668	0.50000	0.52(a)
	63 o-Xylene	106	8.256	8.256	(1.077)	1806	0.25000	0.25(a)
	64 Styrene	104	8.301	8.301	(1.083)	2186	0.25000	0.18(a)
	67 Isopropylbenzene	105	8.571	8.571	(1.118)	4459	0.25000	0.27(a)
$	69 4-Bromofluorobenzene	95	8.710	8.710	(1.136)	3416	0.25000	0.42(a)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	324194	50.0000	
	71 1,2,3-Trichloropropane	75	8.882	8.882	(0.919)	1716	0.25000	0.40(a)
	73 n-Propylbenzene	91	8.931	8.931	(0.924)	4915	0.25000	0.27(a)
	74 Bromobenzene	156	8.837	8.837	(0.915)	1467	0.25000	0.28(a)
	75 1,3,5-Trimethylbenzene	105	9.081	9.081	(0.940)	4272	0.25000	0.30(a)
	76 2-Chlorotoluene	91	8.994	8.994	(0.931)	4181	0.25000	0.34(a)
	77 4-Chlorotoluene	91	9.103	9.103	(0.942)	3867	0.25000	0.28(a)
	78 tert-Butylbenzene	119	9.339	9.339	(0.967)	3339	0.25000	0.29(a)
	79 1,2,4-Trimethylbenzene	105	9.392	9.392	(0.972)	4230	0.25000	0.29(a)
	81 sec-Butylbenzene	105	9.527	9.527	(0.986)	4392	0.25000	0.29(a)
	82 p-Isopropyltoluene	119	9.654	9.654	(0.999)	3331	0.25000	0.24(a)
	83 1,3-Dichlorobenzene	146	9.617	9.617	(0.995)	2361	0.25000	0.26(a)
	84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	3432	0.25000	0.35(a)
	88 1,2-Dichlorobenzene	146	10.014	10.014	(1.036)	2745	0.25000	0.30(a)
	92 Naphthalene	128	11.600	11.600	(1.201)	2752	0.25000	0.17(a)
	141 Cyclohexane	56	4.177	4.177	(1.000)	5635	0.25000	3.07(a)
	135 1,4-Dioxane	88	5.643	5.643	(1.351)	279	5.00000	5.24(aM)
	136 n-Hexane	57	2.772	2.772	(0.664)	792	0.25000	0.68(Ta)
	139 Diethyl ether	59	1.763	1.763	(0.422)	936	0.25000	0.34(Ta)
	148 Tert-butyl alcohol	59	2.438	2.438	(0.584)	2549	5.00000	6.07
	149 Isopropyl alcohol	45	2.104	2.104	(0.504)	1722	5.00000	7.67(T)
	160 2-Methylnaphthalene	142	12.668	12.668	(1.311)	1720	0.25000	0.21(a)
	166 1,2,3-Trimethylbenzene	105	9.737	9.737	(1.008)	4717	0.25000	0.30(a)
	174 tert-Amyl methyl ether	73	4.665	4.665	(1.117)	5282	0.25000	0.36(a)
	175 tert-Butyl ethyl ether	59	3.386	3.386	(0.811)	4051	0.25000	0.31(a)
	176 tert-Amyl alcohol	59	4.639	4.639	(1.110)	1680	5.00000	4.89(a)
	151 4-Methyl-2-pentanol	45	6.727	6.727	(1.355)	10783	5.00000	11.69
	180 1-Methylnaphthalene	142	12.668	12.668	(1.311)	1720	0.25000	(a)
	140 1,3-Butadiene	54	1.164	1.164	(0.279)	737	0.25000	0.27(a)
M	94 1,2-Dichloroethylene (total)	96				1068	0.50000	(a)
	134 Cyclohexanone	55	8.657	8.657	(0.896)	2390	5.00000	12.41(a)
	150 Allyl alcohol	57	2.772	2.772	(0.664)	792	5.00000	13.03

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Date : 17-MAR-2023 11:29
Client ID: VSTD000.25
Sample Info: VSTD000.25;VSTD000.25;1;1;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031702.D
Inj Date : 17-MAR-2023 11:29
InstruID : voa6.i
LabSampID : VSTD000.25

1,4-Dioxane ()

Reason Code:

BEFORE

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AREA
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HEIGHT
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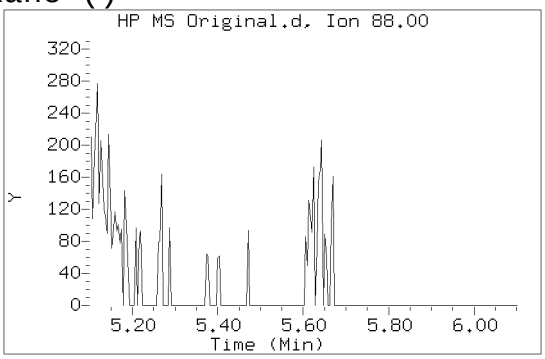
30-Mar-2023
12:33
linh
pham



AFTER

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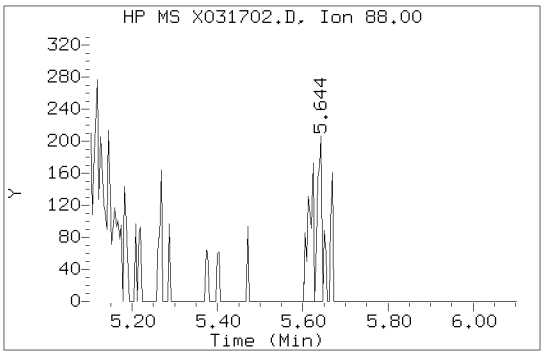

BEFORE

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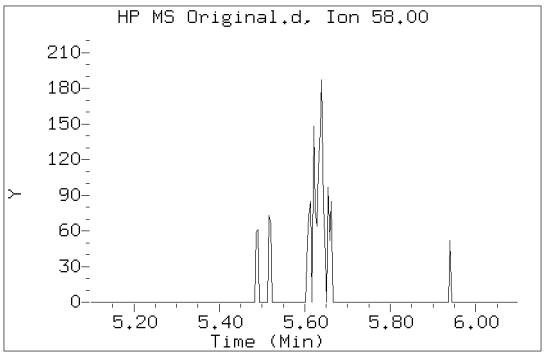

AFTER

MASS
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30-Mar-2023
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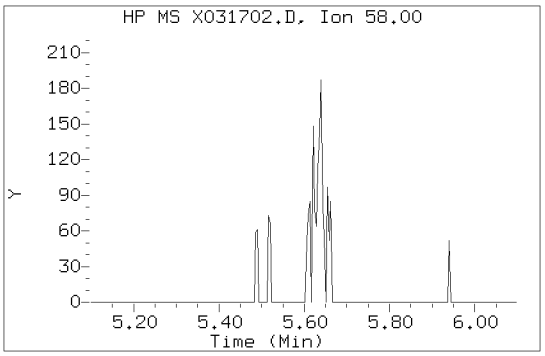


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D Page 1
Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Lab Smp Id: VSTD000.5 Client Smp ID: VSTD000.5
Inj Date : 17-MAR-2023 12:11
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.5;VSTD000.5;1;2;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 11:29 Cal File: X031702.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.181	4.181	(1.000)	367798	50.0000	
2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	1644	0.50000	1.25(M)
3	Chloromethane	50	1.077	1.077	(0.258)	1945	0.50000	0.57(M)
4	Propionitrile	54	3.705	3.705	(0.886)	2634	5.00000	5.08(aM)
5	Vinyl Chloride	62	1.141	1.141	(0.273)	1572	0.50000	0.54(M)
6	Bromomethane	94	1.340	1.340	(0.321)	833	0.50000	0.50(M)
7	Chloroethane	64	1.400	1.400	(0.335)	1227	0.50000	0.59(TM)
8	Trichlorofluoromethane	101	1.561	1.561	(0.373)	1920	0.50000	0.55(M)
9	Acrolein	56	1.441	1.441	(0.345)	179	1.00000	3.94(aM)
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	1244	0.50000	0.56(M)
12	Isobutyl Alcohol	43	4.684	4.684	(1.120)	3536	10.0000	7.04(TaM)
13	Acetonitrile	39	2.202	2.202	(0.527)	1651	5.00000	4.82(a)
14	Allyl Chloride	41	2.209	2.209	(0.528)	4541	0.50000	0.53(a)
15	Iodomethane	142	2.033	2.033	(0.486)	1037	1.00000	9.64(TM)
18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	6887	0.50000	0.59
19	Carbon Disulfide	76	2.067	2.067	(0.494)	9182	1.00000	1.13(M)
20	trans-1,2-Dichloroethene	96	2.543	2.543	(0.608)	1766	0.50000	0.56
21	Vinyl Acetate	43	3.038	3.038	(0.727)	8761	1.00000	0.93(aM)
22	1,1-Dichloroethane	63	2.918	2.918	(0.698)	2973	0.50000	0.52(TM)
23	Chloroprene	53	1.767	1.767	(0.423)	581	0.50000	0.57(aM)

24 2-Butanone	43	3.671	3.671 (0.878)	1066	1.00000	0.80(aM)
25 Methacrylonitrile	41	3.863	3.863 (0.924)	1764	0.50000	0.52(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	27 cis-1,2-Dichloroethene	96	3.533	3.533	(0.845)	2082	0.50000	0.55(M)
	28 Chloroform	83	3.911	3.911	(0.935)	3918	0.50000	0.62
	29 Bromochloromethane	128	3.795	3.795	(0.908)	1278	0.50000	0.59
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	2607	0.50000	0.55(M)
	32 1,1-Dichloropropene	75	4.290	4.290	(0.864)	2227	0.50000	0.51(M)
	33 1,2-Dichloroethane	62	4.586	4.586	(0.924)	2984	0.50000	0.59
	34 Carbon Tetrachloride	117	4.267	4.267	(0.860)	2318	0.50000	0.56(M)
$	35 1,2-Dichloroethane-d4	65	4.489	4.489	(1.074)	2080	0.50000	1.56(TM)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	601883	50.0000	
	37 Benzene	78	4.522	4.522	(0.911)	8236	0.50000	0.55(M)
	38 Trichloroethene	130	5.212	5.212	(1.050)	2257	0.50000	0.56(aM)
	39 Bromodichloromethane	83	5.733	5.733	(1.155)	3021	0.50000	0.57(aM)
	40 Methyl Methacrylate	41	5.639	5.639	(1.349)	1737	0.50000	0.52(aM)
	41 2-Chloroethylvinyl ether	63	6.082	6.082	(1.225)	1463	1.00000	0.91(aM)
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	2264	0.50000	0.56(aM)
	43 2-Nitropropane	43	5.984	5.984	(1.431)	573	0.50000	0.49(aMH)
	44 Dibromomethane	93	5.565	5.565	(1.121)	1289	0.50000	0.50(a)
	45 4-Methyl-2-Pentanone	43	6.348	6.348	(0.828)	3685	1.00000	1.01(a)
	46 cis-1,3-Dichloropropene	75	6.164	6.164	(1.242)	3719	0.50000	0.56(a)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	574583	50.0000	
$	48 Toluene-d8	98	6.400	6.400	(0.835)	7591	0.50000	0.53(aM)
	49 Ethyl Methacrylate	69	6.742	6.742	(1.358)	2259	0.50000	0.50(aM)
	50 Toluene	91	6.460	6.460	(0.843)	7835	0.50000	0.51(aM)
	51 trans-1,3-Dichloropropene	75	6.700	6.700	(1.350)	2740	0.50000	0.49(aM)
	52 2-Hexanone	43	7.124	7.124	(0.929)	2519	1.00000	1.00(TaM)
	53 1,1,2-Trichloroethane	83	6.850	6.850	(0.893)	1853	0.50000	0.56(a)
	54 1,3-Dichloropropane	76	6.989	6.989	(0.912)	3374	0.50000	0.51(aM)
	55 Dibromochloromethane	129	7.184	7.184	(0.937)	2629	0.50000	0.56(a)
	56 Tetrachloroethene	164	6.937	6.937	(0.905)	1777	0.50000	0.58(aM)
	57 1,2-Dibromoethane	107	7.270	7.270	(0.948)	2073	0.50000	0.51(a)
	58 1-Chlorohexane	55	7.705	7.705	(1.552)	1701	0.50000	2.80(aM)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	5868	0.50000	0.54(aM)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	2474	0.50000	0.59(a)
	61 Ethylbenzene	106	7.802	7.802	(1.018)	3139	0.50000	0.59(a)
	62 m,p-Xylenes	106	7.911	7.911	(1.032)	7504	1.00000	1.12(a)
	63 o-Xylene	106	8.252	8.252	(1.076)	3921	0.50000	0.58(a)
	64 Styrene	104	8.294	8.294	(1.082)	5629	0.50000	0.50(aM)
	66 Bromoform	173	8.417	8.417	(1.098)	1781	0.50000	0.55(aM)
	67 Isopropylbenzene	105	8.567	8.567	(1.117)	8191	0.50000	0.53(aM)
	68 1,1,2,2-Tetrachloroethane	83	8.848	8.848	(0.916)	3141	0.50000	0.57(aM)
$	69 4-Bromofluorobenzene	95	8.706	8.706	(1.135)	3243	0.50000	0.41(aM)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	314997	50.0000	
	71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	2211	0.50000	0.53(aM)
	72 trans-1,4-Dichloro-2-butene	53	8.931	8.931	(1.165)	541	0.50000	0.94(aM)
	73 n-Propylbenzene	91	8.923	8.923	(0.924)	9679	0.50000	0.55(a)
	74 Bromobenzene	156	8.822	8.822	(0.913)	2604	0.50000	0.51(aM)
	75 1,3,5-Trimethylbenzene	105	9.077	9.077	(0.939)	7357	0.50000	0.54(aM)
	76 2-Chlorotoluene	91	8.983	8.983	(0.930)	5959	0.50000	0.50(aM)
	77 4-Chlorotoluene	91	9.092	9.092	(0.941)	6930	0.50000	0.52(aM)
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	5974	0.50000	0.55(aM)
	79 1,2,4-Trimethylbenzene	105	9.388	9.388	(0.972)	8022	0.50000	0.57(a)
	81 sec-Butylbenzene	105	9.523	9.523	(0.986)	8361	0.50000	0.57(aM)

82 p-Isopropyltoluene	119	9.654	9.654 (0.999)	6920	0.50000	0.52(aM)
83 1,3-Dichlorobenzene	146	9.613	9.613 (0.995)	4872	0.50000	0.55(a)

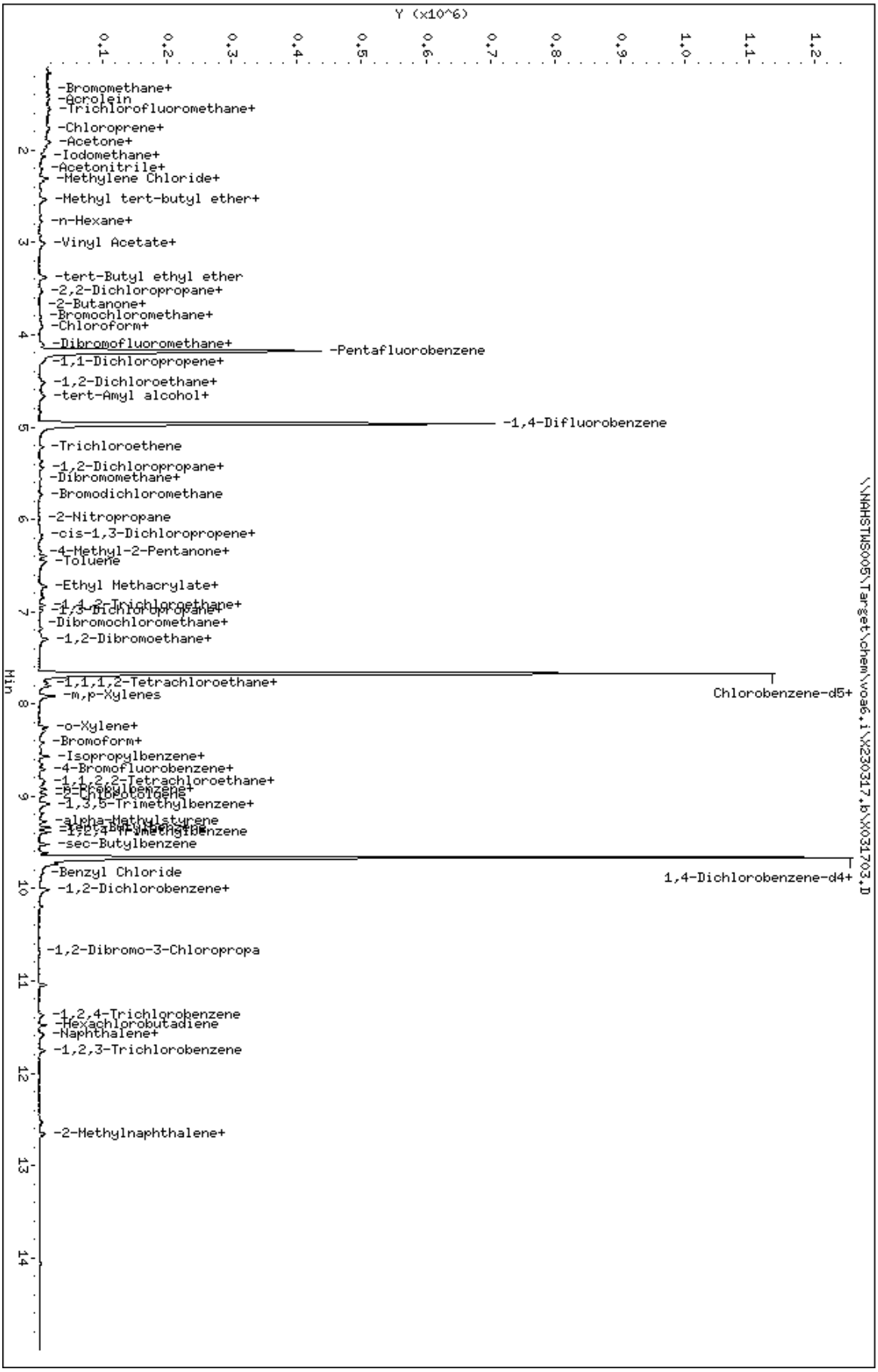
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	5378	0.50000	0.57(aM)
86	Benzyl Chloride	91	9.827	9.827	(1.282)	4324	0.50000	2.00(aM)
87	n-Butylbenzene	91	10.025	10.025	(1.038)	5143	0.50000	0.48(aM)
88	1,2-Dichlorobenzene	146	10.014	10.014	(1.036)	4957	0.50000	0.56(a)
89	1,2-Dibromo-3-Chloropropane	155	10.681	10.681	(1.106)	405	0.50000	1.86(aM)
90	1,2,4-Trichlorobenzene	180	11.367	11.367	(1.177)	3409	0.50000	0.53(a)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	1367	0.50000	2.35(aM)
92	Naphthalene	128	11.581	11.581	(1.199)	7876	0.50000	0.51(a)
93	1,2,3-Trichlorobenzene	180	11.761	11.761	(1.217)	3277	0.50000	0.53(aM)
146	Methyl acetate	43	2.258	2.258	(0.540)	1057	0.50000	0.49(aM)
138	Freon TF	101	1.917	1.917	(0.459)	1102	0.50000	1.75(aM)
141	Cyclohexane	56	4.125	4.125	(0.987)	2139	0.50000	2.30(aM)
142	Tetrahydrofuran	42	3.874	3.874	(0.926)	614	1.00000	1.02(aM)
147	Methylcyclohexane	55	5.370	5.370	(1.082)	4159	0.50000	0.50(aM)
135	1,4-Dioxane	88	5.628	5.628	(1.346)	500	10.0000	10.24(aM)
132	n-Butanol	56	5.373	5.373	(1.285)	783	10.0000	39.67(TaM)
131	Methyl Acrylate	55	3.780	3.780	(0.904)	1927	0.50000	0.50(TaM)
133	Ethyl Acrylate	55	5.370	5.370	(1.284)	3644	0.50000	0.45(aM)
136	n-Hexane	57	2.776	2.776	(0.664)	1555	0.50000	1.07(TaM)
139	Diethyl ether	59	1.767	1.767	(0.423)	1334	0.50000	0.54(TaM)
148	Tert-butyl alcohol	59	2.442	2.442	(0.584)	4322	10.0000	11.22
149	Isopropyl alcohol	45	2.105	2.105	(0.503)	1979	10.0000	9.61(TM)
156	Diisopropyl ether	45	3.000	3.000	(0.718)	5833	0.50000	0.51(TaM)
160	2-Methylnaphthalene	142	12.664	12.664	(1.311)	4839	0.50000	0.63(a)
166	1,2,3-Trimethylbenzene	105	9.740	9.740	(1.008)	8417	0.50000	0.55(a)
167	Ethanol	45	1.707	1.707	(0.408)	398	10.0000	12.06(M)
172	tert-Butyl formate	59	4.627	4.627	(1.107)	2676	1.00000	0.89(aM)
173	3,3-Dimethyl-1-butanol	57	7.300	7.300	(0.952)	4857	10.0000	10.96(M)
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	7050	0.50000	0.53(aM)
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.808)	6191	0.50000	0.51(aM)
176	tert-Amyl alcohol	59	4.627	4.627	(1.107)	3255	10.0000	10.34
151	4-Methyl-2-pentanol	45	6.727	6.727	(1.355)	8689	10.0000	9.89(M)
180	1-Methylnaphthalene	142	12.664	12.664	(1.311)	4839	0.50000	(a)
140	1,3-Butadiene	54	1.164	1.164	(0.278)	1361	0.50000	0.54(aM)
152	Amyl alcohol	42	6.985	6.985	(0.911)	1078	10.0000	10.40(M)
158	Dichlorofluoromethane	67	1.531	1.531	(0.366)	2337	0.50000	0.51(M)
159	Propylene oxide	43	1.808	1.808	(0.433)	209	1.00000	0.91(aM)
162	Butyl acrylate	55	8.297	8.297	(1.082)	4463	0.50000	0.52(aM)
182	Epichlorohydrin	57	6.127	6.127	(1.234)	641	2.00000	1.86(aM)
M 94	1,2-Dichloroethylene (total)	96				3848	1.00000	(a)
130	Ethyl Acetate	43	3.679	3.679	(0.880)	1988	0.50000	0.52(aM)
134	Cyclohexanone	55	8.653	8.653	(0.896)	2126	10.0000	11.36(aM)
185	Isoprene	39	1.748	1.748	(0.418)	361	0.50000	0.51(aM)
188	Isopropyl acetate	43	4.684	4.684	(0.943)	5705	0.50000	0.52(a)
187	n-Amyl acetate	43	8.500	8.500	(1.109)	3393	0.50000	0.47(aM)
189	n-Butyl acetate	43	7.244	7.244	(0.945)	3030	0.50000	0.49(aM)
150	Allyl alcohol	57	2.776	2.776	(0.664)	1223	10.0000	17.64(M)
195	Methyl Amyl Ketone	43	8.417	8.417	(1.098)	4445	0.50000	0.48(aM)
200	Dimethyl Disulfide	94	6.202	6.202	(0.809)	3700	0.50000	0.49(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD000.5
Sample Info: VSTD000.5;VSTD000.5;1;2;
Purge Volume: 5.0
Column phase: DB624

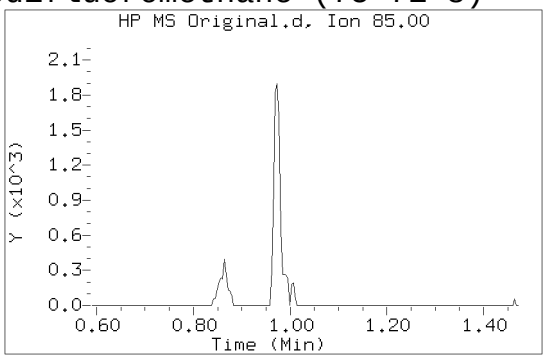
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Dichlorodifluoromethane (75-71-8)

Reason Code:

BEFORE
MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
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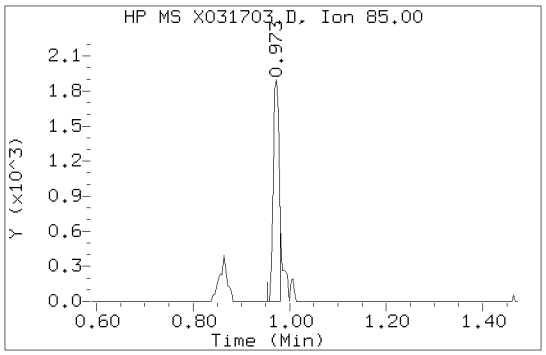
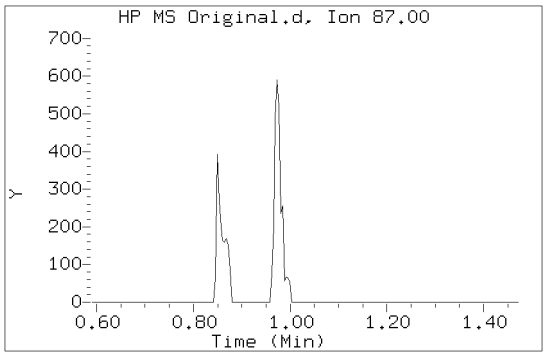
AREA
1644
HEIGHT
1897
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
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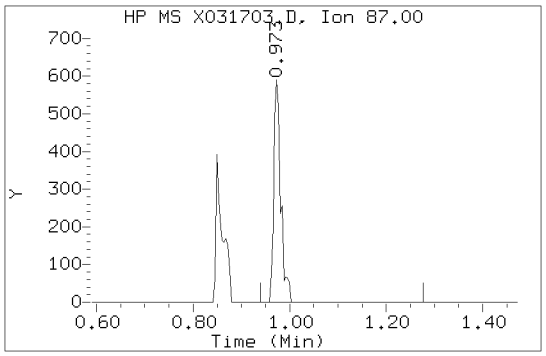
AREA
586
HEIGHT
590
30-Mar-2023
12:41
linh
pham



Chloromethane (74-87-3)

Reason Code:

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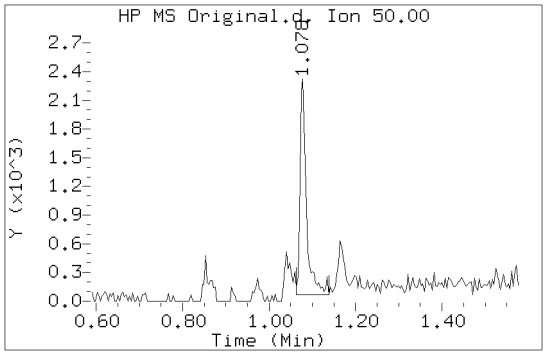
AREA
2360
HEIGHT
2259
30-Mar-2023
12:33
linh
pham



AFTER
MASS
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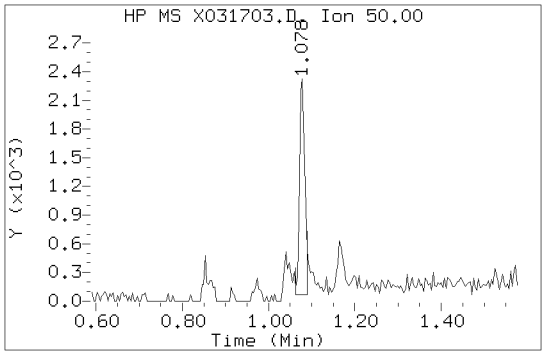
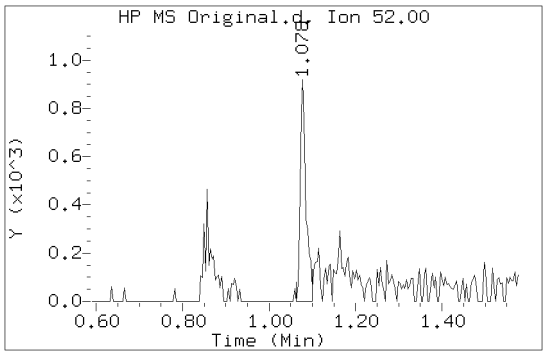
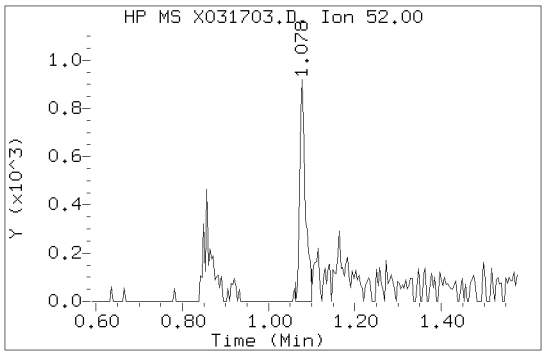
AREA
1945
HEIGHT
2259
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
52
AREA
852
HEIGHT
919
30-Mar-2023
12:33
linh
pham



AFTER
MASS
52
AREA
852
HEIGHT
919
30-Mar-2023
12:41
linh
pham



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Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Vinyl Chloride (75-01-4)

BEFORE

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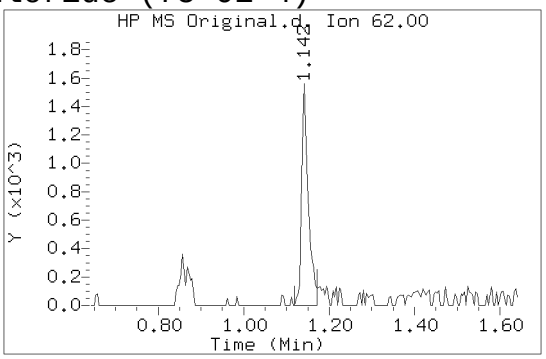
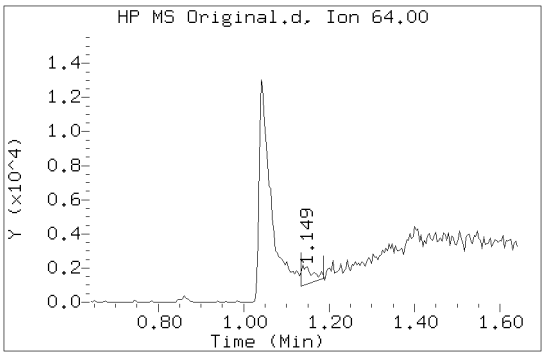
AREA
1767
HEIGHT
1561
30-Mar-2023
12:33
linh
pham



BEFORE

MASS
64
AREA
2020
HEIGHT
989
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

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62
AREA
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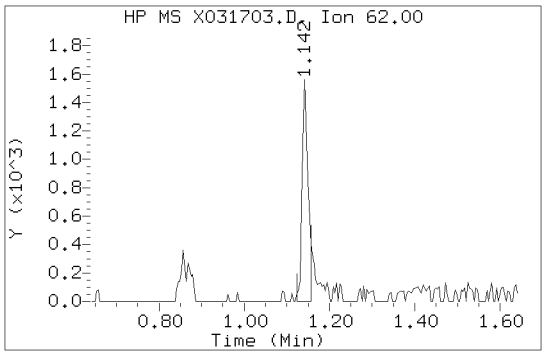
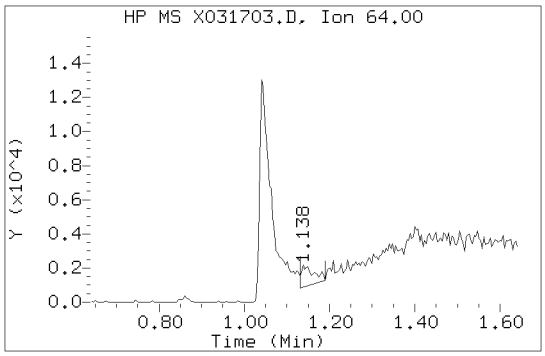
HEIGHT
1561
30-Mar-2023
12:41
linh
pham



AFTER

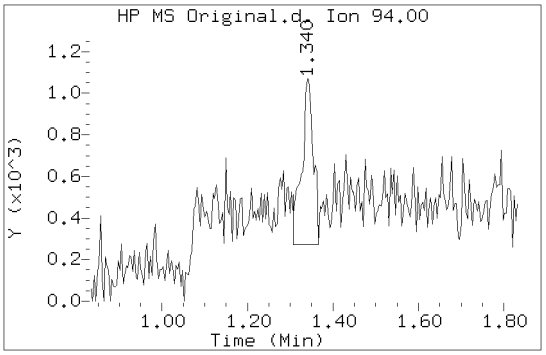
MASS
64
AREA
2509
HEIGHT
1287
30-Mar-2023
12:41
linh
pham



Bromomethane (74-83-9)

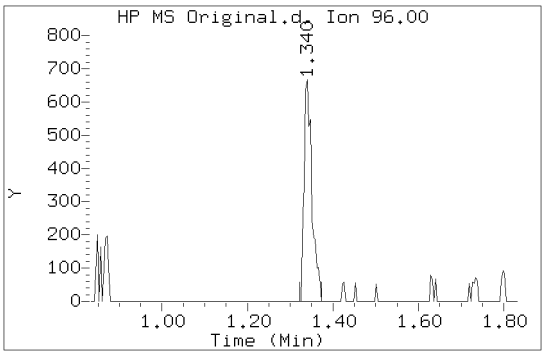
BEFORE

MASS
94
AREA
1545
HEIGHT
797
30-Mar-2023
12:33
linh
pham



BEFORE

MASS
96
AREA
869
HEIGHT
667
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

MASS
94
AREA
833
HEIGHT
685
30-Mar-2023
12:41
linh
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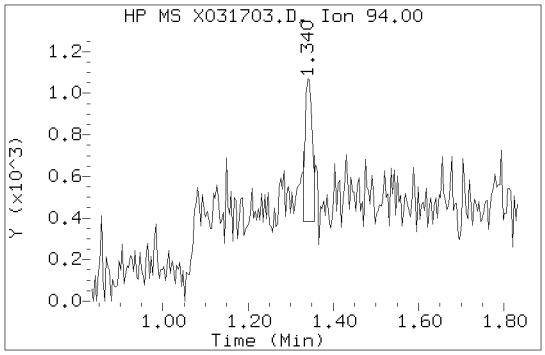
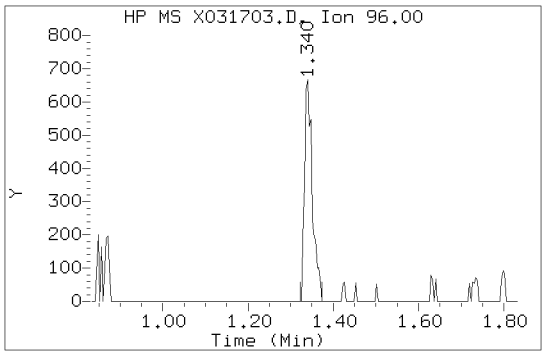


AFTER

MASS
96
AREA
869
HEIGHT
667
30-Mar-2023
12:41
linh
pham



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Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Chloroethane (75-00-3)

Reason Code:

BEFORE
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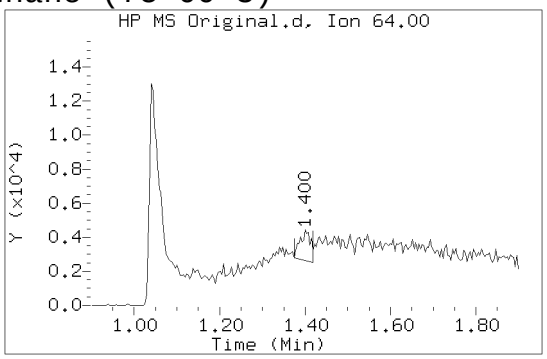
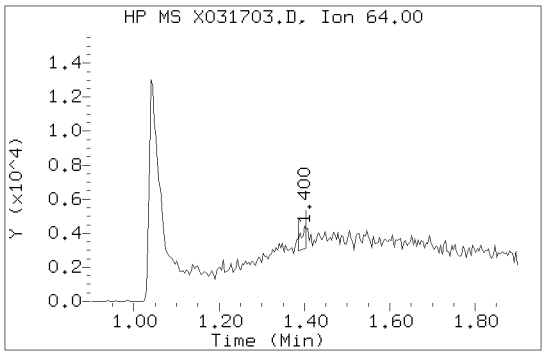
64
AREA
3174
HEIGHT
1811
30-Mar-2023
12:33
linh
pham



AFTER
MASS
64
AREA
1227
HEIGHT
1330
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
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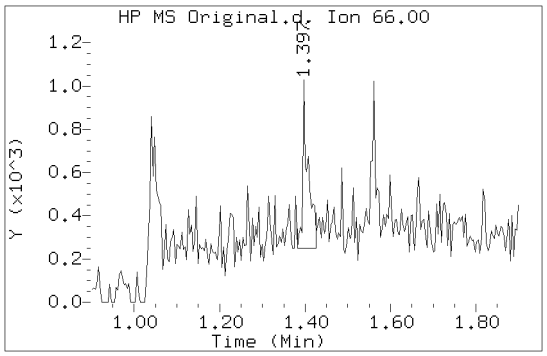
AREA
696
HEIGHT
778
30-Mar-2023
12:33
linh
pham



AFTER
MASS
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AREA
666
HEIGHT
269
30-Mar-2023
12:41
linh
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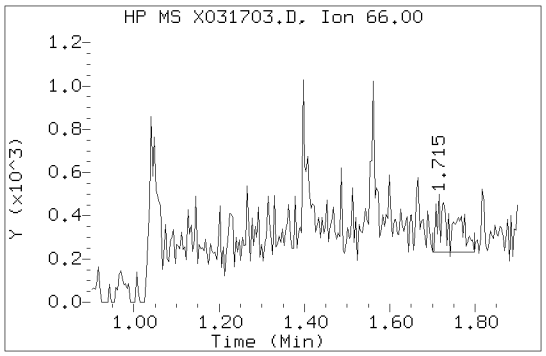
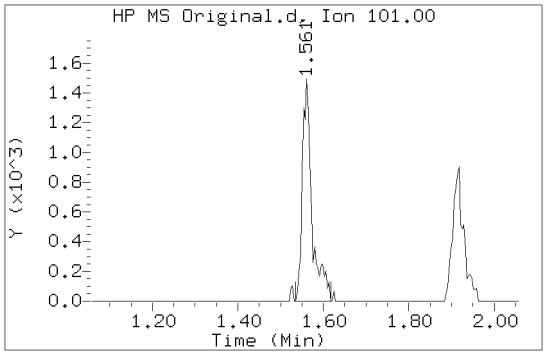


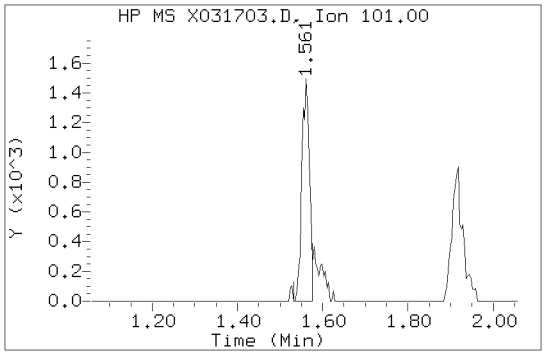
Trichlorofluoromethane (75-69-4)

Reason Code:

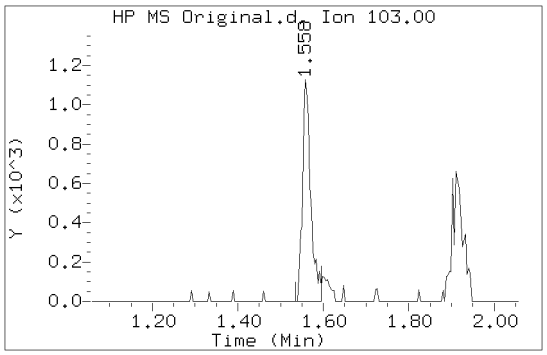
BEFORE
MASS
101
AREA
2389
HEIGHT
1494
30-Mar-2023
12:33
linh
pham



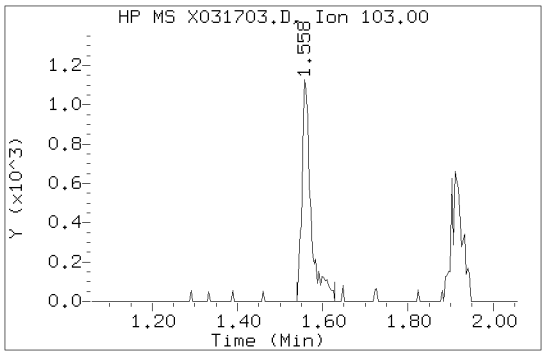
AFTER
MASS
101
AREA
1920
HEIGHT
1494
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
103
AREA
1567
HEIGHT
1128
30-Mar-2023
12:33
linh
pham



AFTER
MASS
103
AREA
1729
HEIGHT
1128
30-Mar-2023
12:41
linh
pham



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Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Acetone (67-64-1)

Reason Code:

BEFORE
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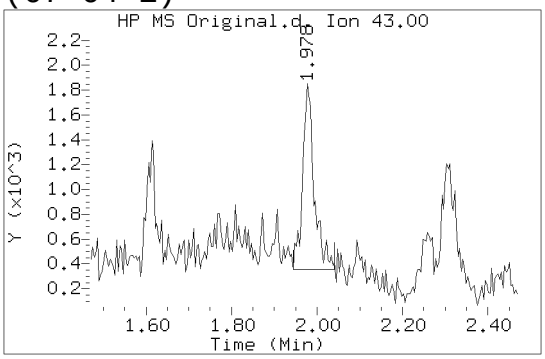
AREA
2850
HEIGHT
1495
30-Mar-2023
12:33
linh
pham



AFTER
MASS
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AREA
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HEIGHT
1495
30-Mar-2023
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linh
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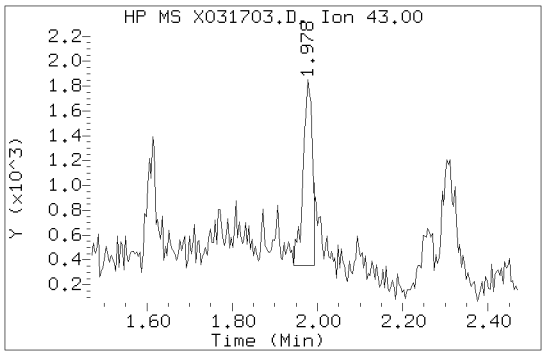

BEFORE
MASS
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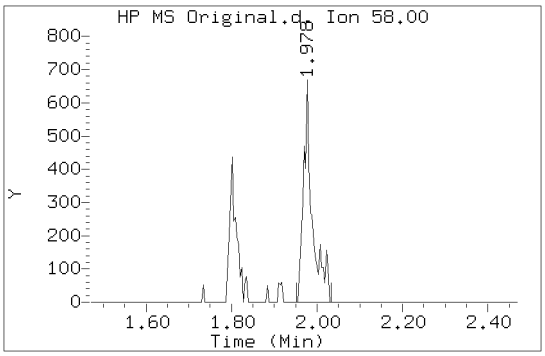
AREA
967
HEIGHT
669
30-Mar-2023
12:33
linh
pham



AFTER
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AREA
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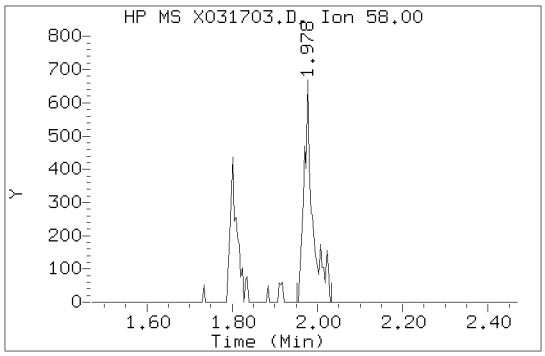
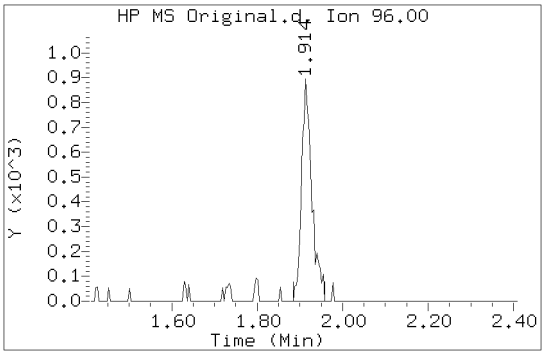
HEIGHT
669
30-Mar-2023
12:41
linh
pham



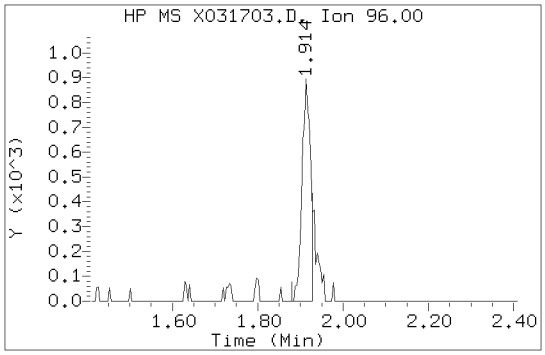
1,1-Dichloroethene (75-35-4)

Reason Code:

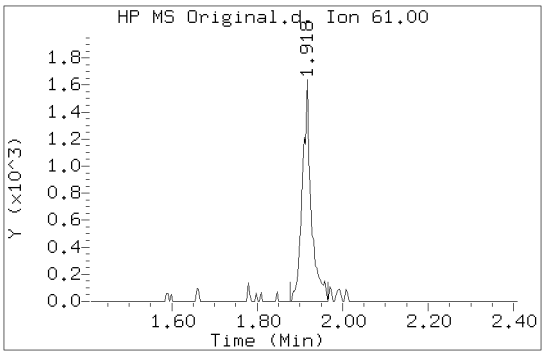
BEFORE
MASS
96
AREA
1510
HEIGHT
895
30-Mar-2023
12:33
linh
pham



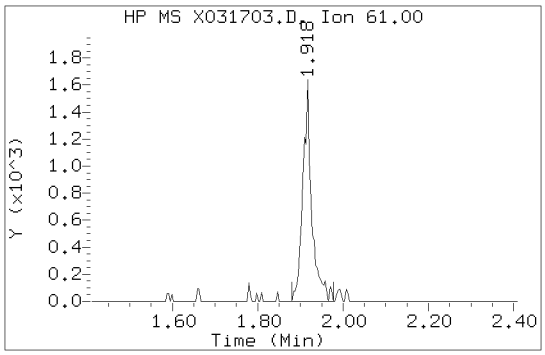
AFTER
MASS
96
AREA
1244
HEIGHT
895
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
61
AREA
2357
HEIGHT
1639
30-Mar-2023
12:33
linh
pham



AFTER
MASS
61
AREA
2400
HEIGHT
1639
30-Mar-2023
12:41
linh
pham



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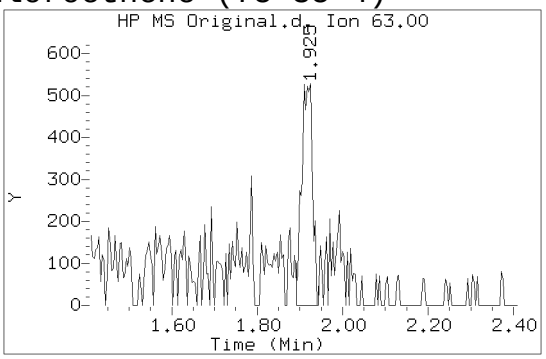
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,1-Dichloroethene (75-35-4)

BEFORE

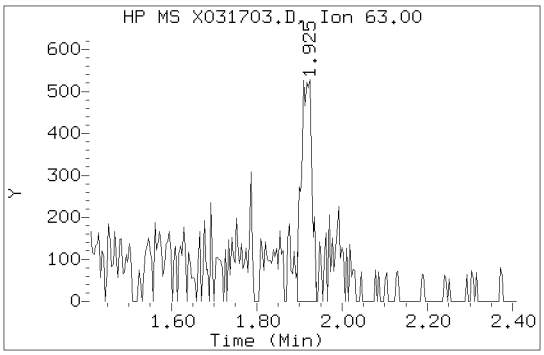
MASS
63
AREA
946
HEIGHT
528
30-Mar-2023
12:33
linh
pham



AFTER

MASS
63
AREA
934
HEIGHT
528
30-Mar-2023
12:41
linh
pham

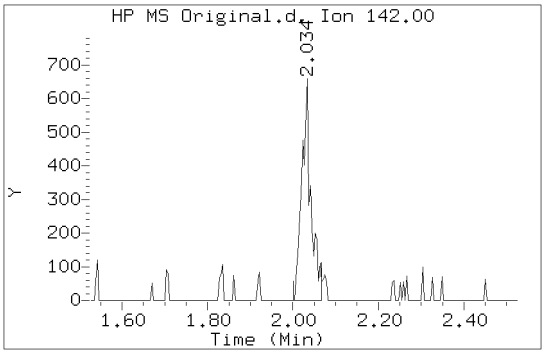
Reason Code:



Iodomethane (74-88-4)

BEFORE

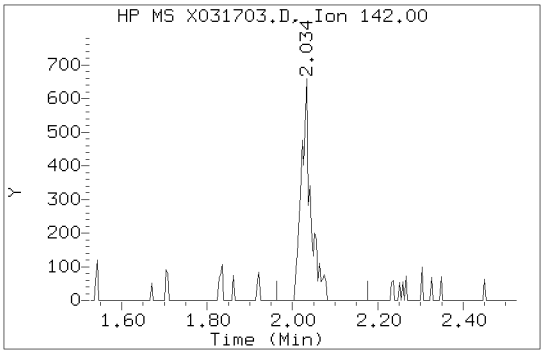
MASS
142
AREA
993
HEIGHT
659
30-Mar-2023
12:33
linh
pham



AFTER

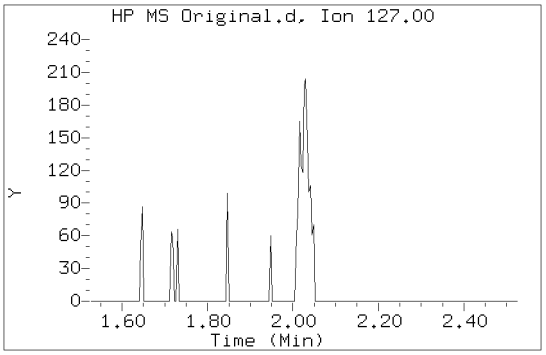
MASS
142
AREA
1037
HEIGHT
659
30-Mar-2023
12:41
linh
pham

Reason Code:



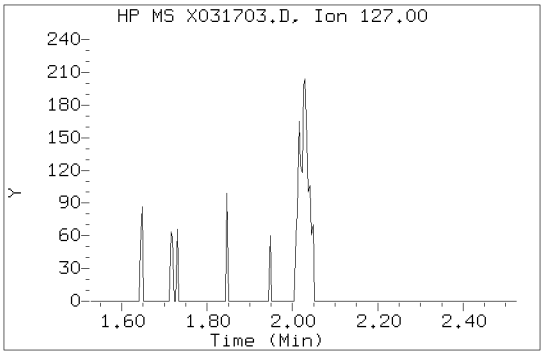
BEFORE

MASS
127
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



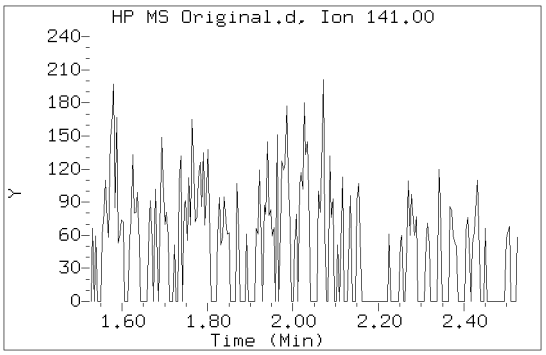
AFTER

MASS
127
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



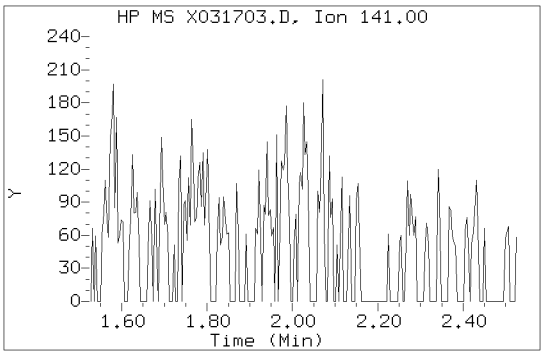
BEFORE

MASS
141
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
141
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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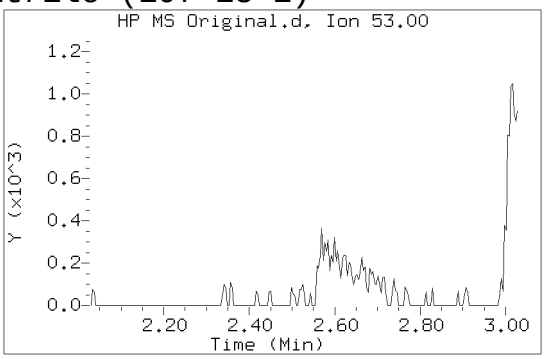
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Acrylonitrile (107-13-1)

Reason Code:

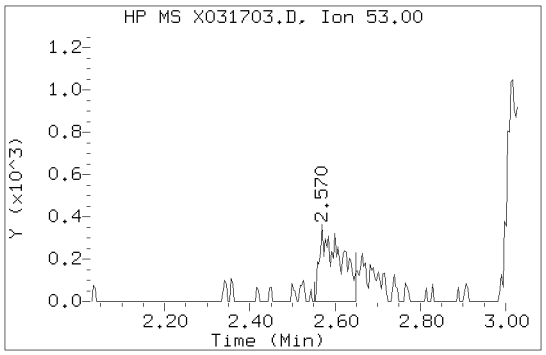
BEFORE

MASS
53
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



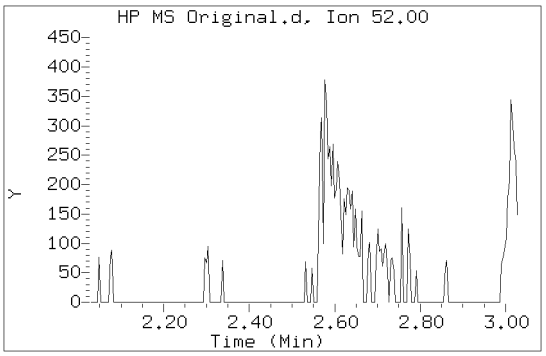
AFTER

MASS
53
AREA
1196
HEIGHT
364
30-Mar-2023
12:41
linh
pham



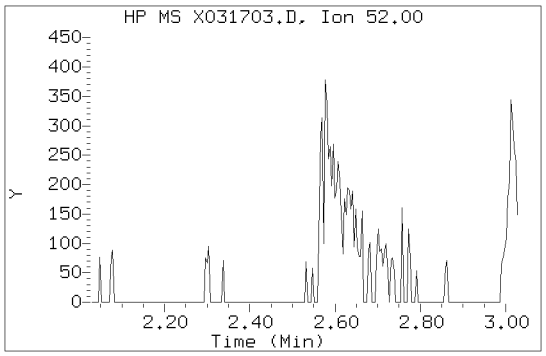
BEFORE

MASS
52
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



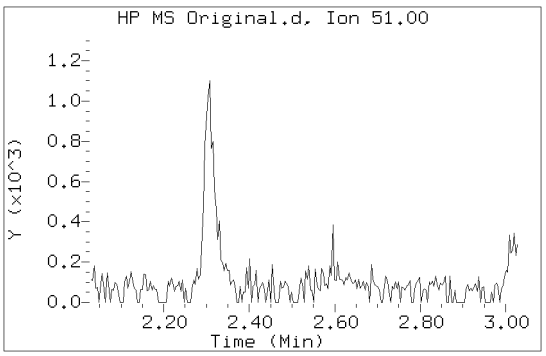
AFTER

MASS
52
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



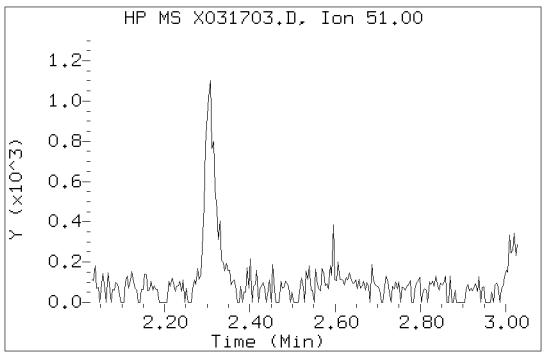
BEFORE

MASS
51
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
51
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

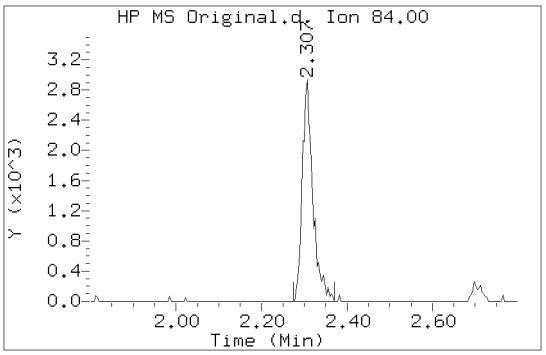


Methylene Chloride (75-09-2)

Reason Code:

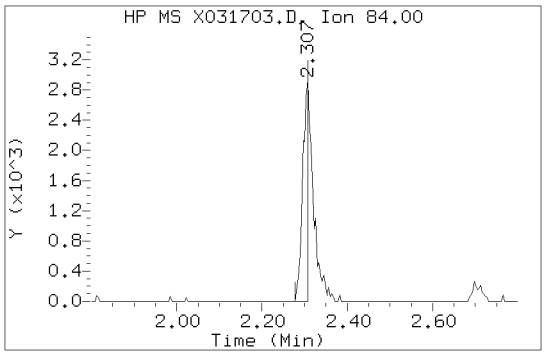
BEFORE

MASS
84
AREA
5152
HEIGHT
2937
30-Mar-2023
12:33
linh
pham



AFTER

MASS
84
AREA
2729
HEIGHT
2937
30-Mar-2023
12:41
linh
pham



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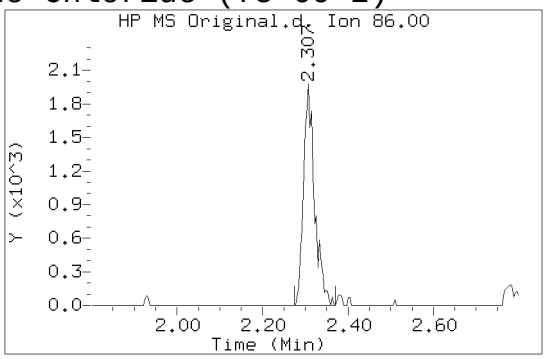
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Methylene Chloride (75-09-2)

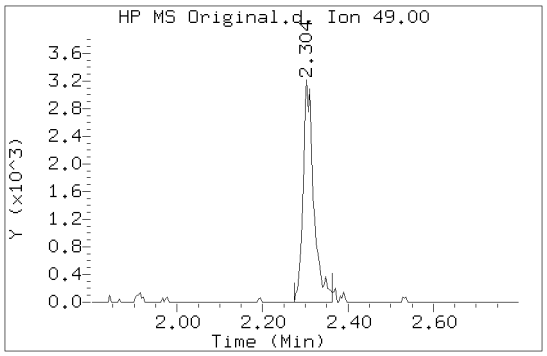
BEFORE

MASS
86
AREA
3619
HEIGHT
1981
30-Mar-2023
12:33
linh
pham



BEFORE

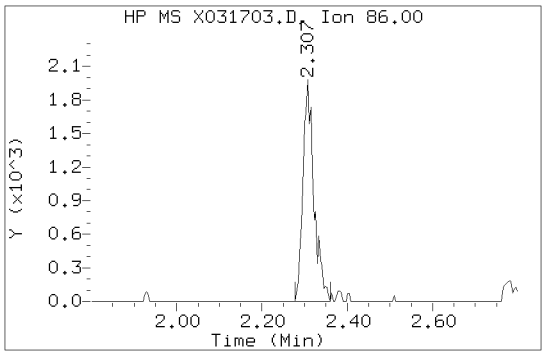
MASS
49
AREA
5693
HEIGHT
3215
30-Mar-2023
12:33
linh
pham



Reason Code:

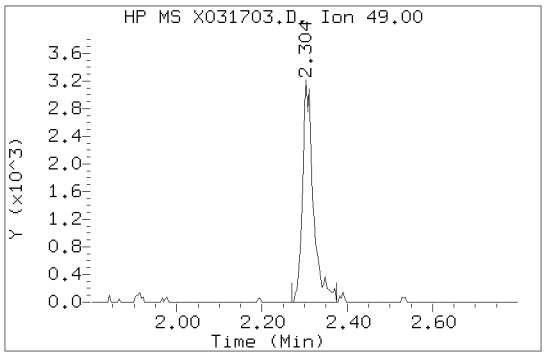
AFTER

MASS
86
AREA
3603
HEIGHT
1981
30-Mar-2023
12:41
linh
pham



AFTER

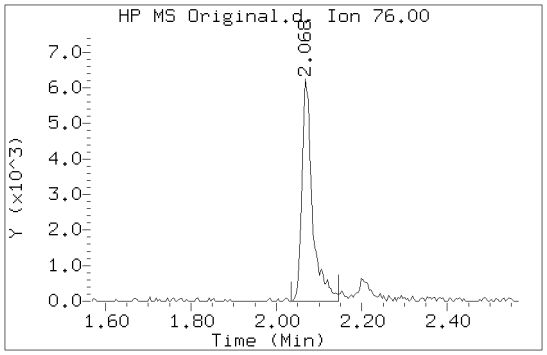
MASS
49
AREA
5772
HEIGHT
3215
30-Mar-2023
12:41
linh
pham



Carbon Disulfide (75-15-0)

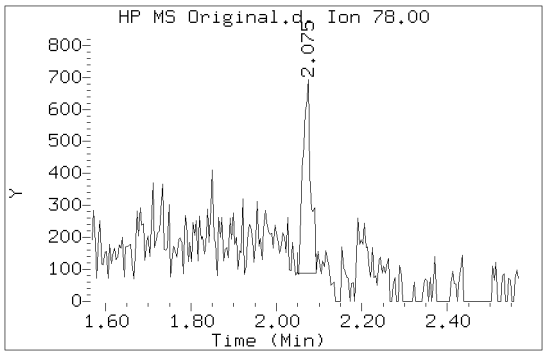
BEFORE

MASS
76
AREA
11053
HEIGHT
6252
30-Mar-2023
12:33
linh
pham



BEFORE

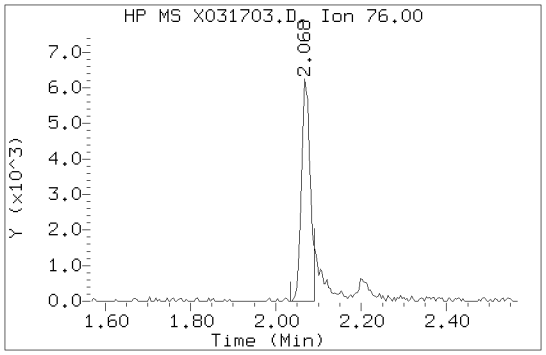
MASS
78
AREA
773
HEIGHT
605
30-Mar-2023
12:33
linh
pham



Reason Code:

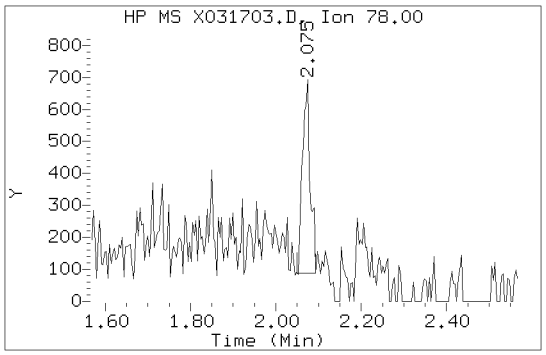
AFTER

MASS
76
AREA
9182
HEIGHT
6252
30-Mar-2023
12:41
linh
pham



AFTER

MASS
78
AREA
773
HEIGHT
605
30-Mar-2023
12:41
linh
pham



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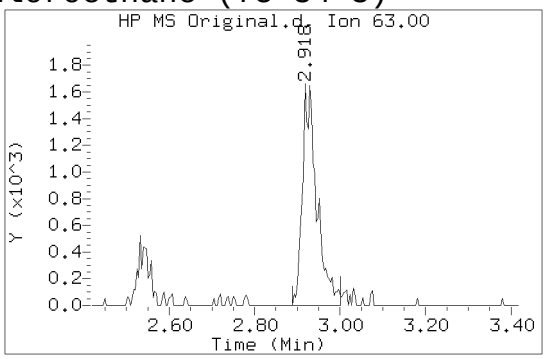
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,1-Dichloroethane (75-34-3)

Reason Code:

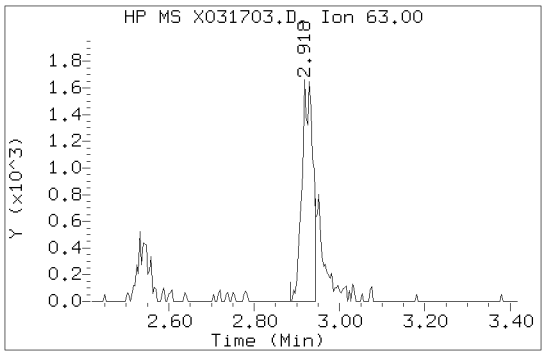
BEFORE

MASS
63
AREA
3888
HEIGHT
1662
30-Mar-2023
12:33
linh
pham



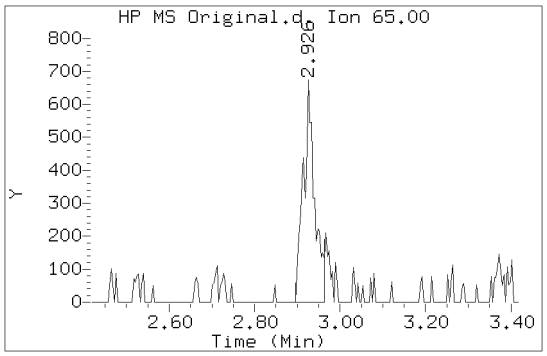
AFTER

MASS
63
AREA
2973
HEIGHT
1662
30-Mar-2023
12:41
linh
pham



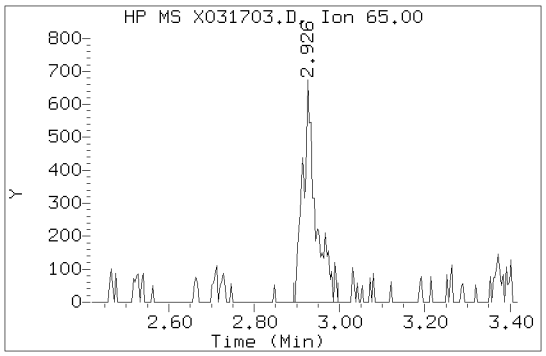
BEFORE

MASS
65
AREA
1248
HEIGHT
674
30-Mar-2023
12:33
linh
pham



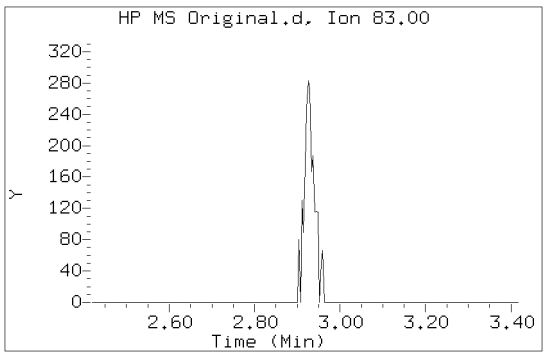
AFTER

MASS
65
AREA
1438
HEIGHT
674
30-Mar-2023
12:41
linh
pham



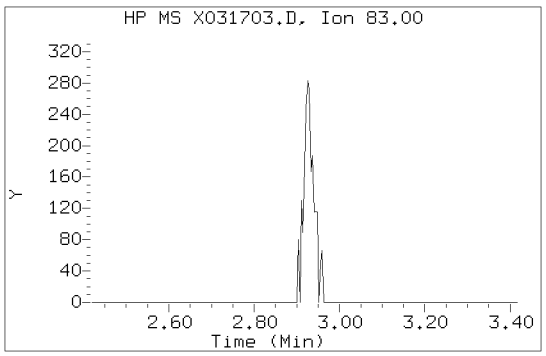
BEFORE

MASS
83
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
83
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

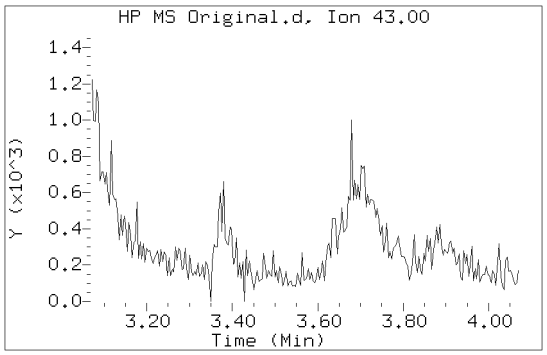


2-Butanone (78-93-3)

Reason Code:

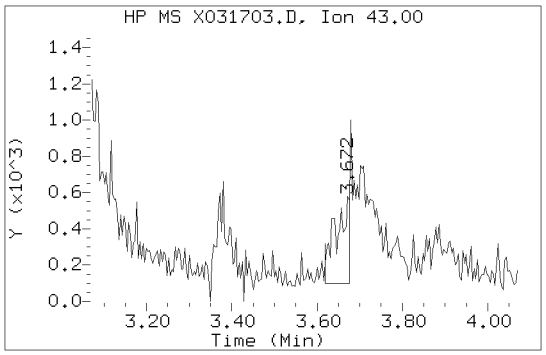
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
AREA
1066
HEIGHT
481
30-Mar-2023
12:41
linh
pham



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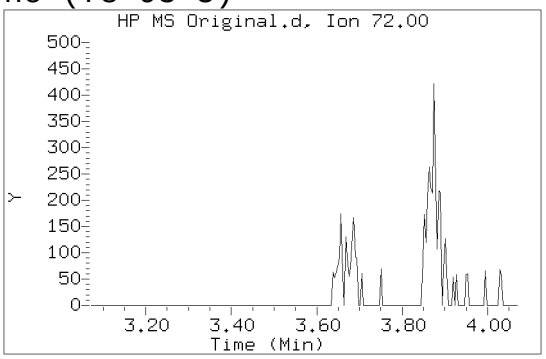
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

2-Butanone (78-93-3)

Reason Code:

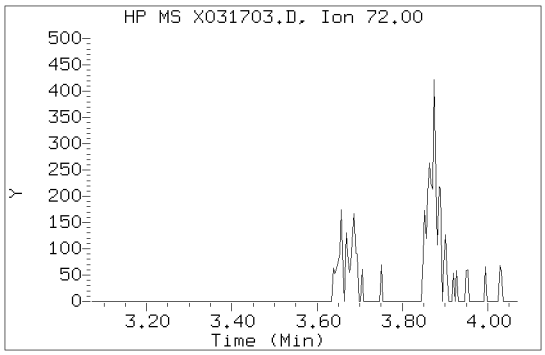
BEFORE

MASS
72
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
72
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

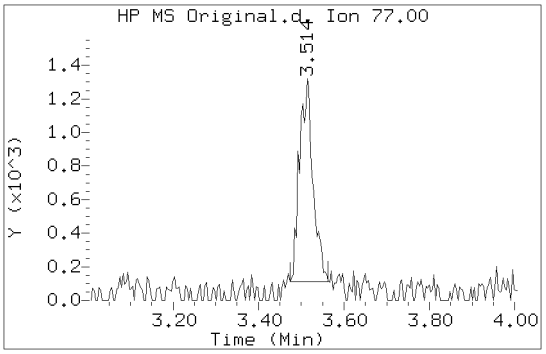


2,2-Dichloropropane (594-20-7)

Reason Code:

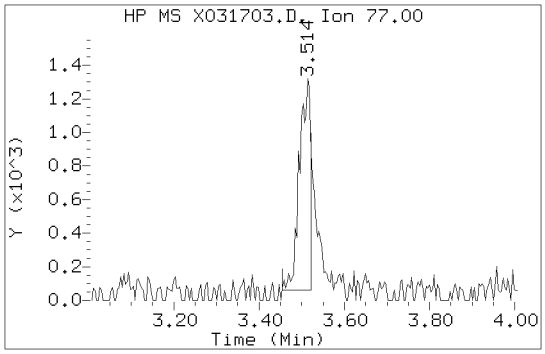
BEFORE

MASS
77
AREA
2693
HEIGHT
1211
30-Mar-2023
12:33
linh
pham



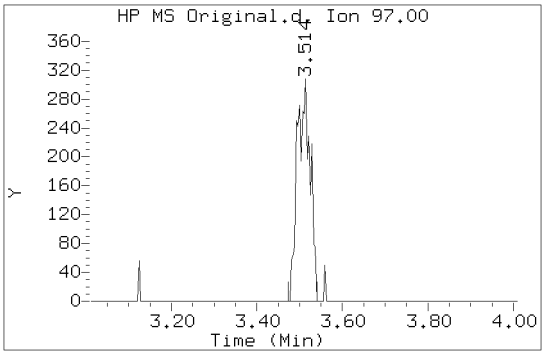
AFTER

MASS
77
AREA
2270
HEIGHT
1258
30-Mar-2023
12:41
linh
pham



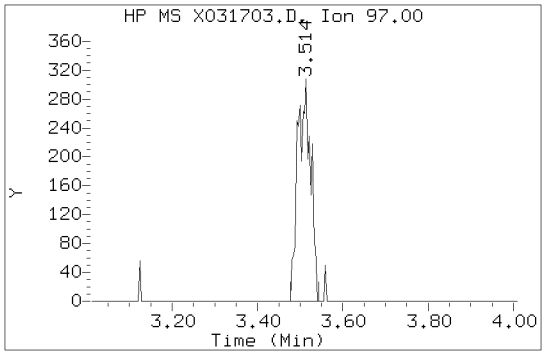
BEFORE

MASS
97
AREA
659
HEIGHT
308
30-Mar-2023
12:33
linh
pham



AFTER

MASS
97
AREA
659
HEIGHT
308
30-Mar-2023
12:41
linh
pham

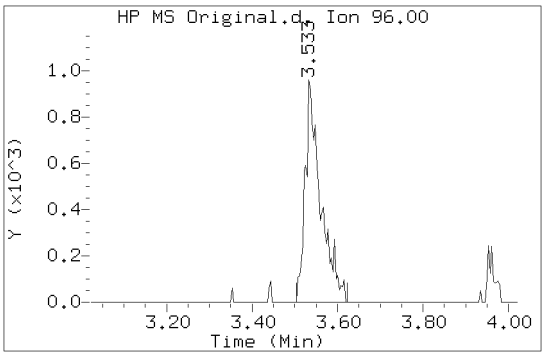


cis-1,2-Dichloroethene (156-59-2)

Reason Code:

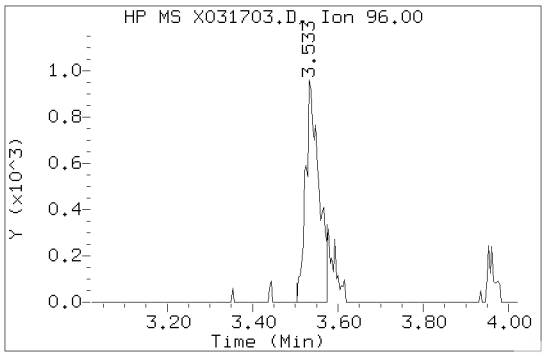
BEFORE

MASS
96
AREA
2438
HEIGHT
961
30-Mar-2023
12:33
linh
pham



AFTER

MASS
96
AREA
2082
HEIGHT
961
30-Mar-2023
12:41
linh
pham



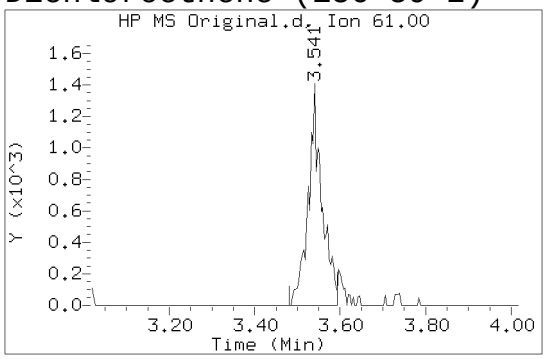
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

cis-1,2-Dichloroethene (156-59-2)

Reason Code:

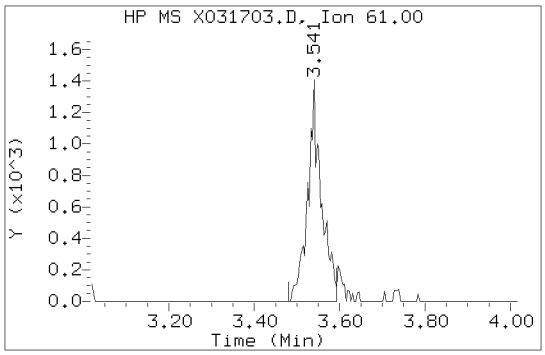
BEFORE

MASS
61
AREA
3124
HEIGHT
1408
30-Mar-2023
12:33
linh
pham



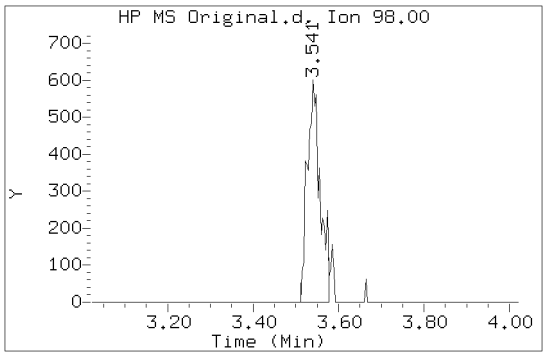
AFTER

MASS
61
AREA
3124
HEIGHT
1408
30-Mar-2023
12:41
linh
pham



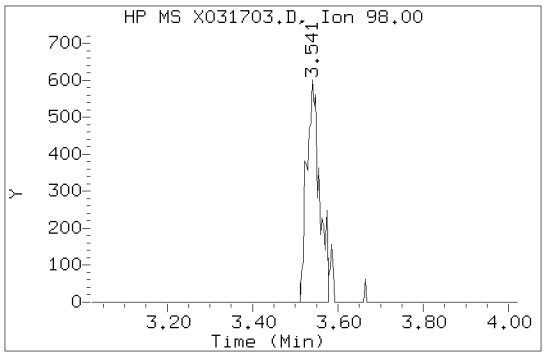
BEFORE

MASS
98
AREA
1273
HEIGHT
601
30-Mar-2023
12:33
linh
pham



AFTER

MASS
98
AREA
1273
HEIGHT
601
30-Mar-2023
12:41
linh
pham

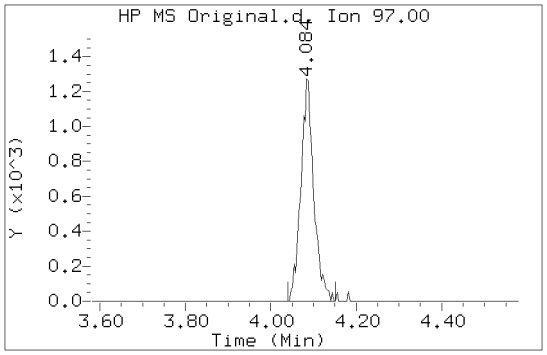


1,1,1-Trichloroethane (71-55-6)

Reason Code:

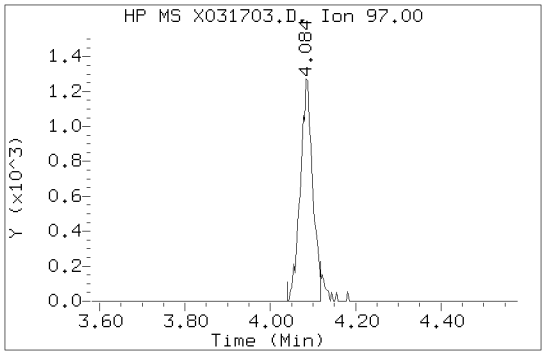
BEFORE

MASS
97
AREA
2725
HEIGHT
1272
30-Mar-2023
12:33
linh
pham



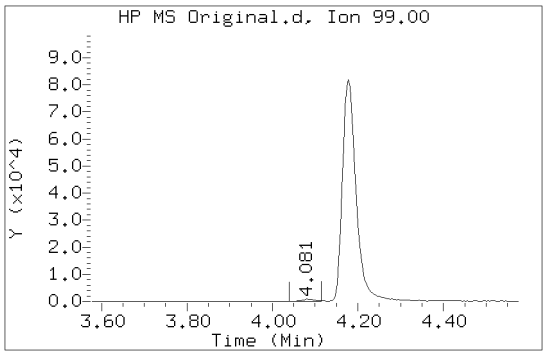
AFTER

MASS
97
AREA
2607
HEIGHT
1272
30-Mar-2023
12:41
linh
pham



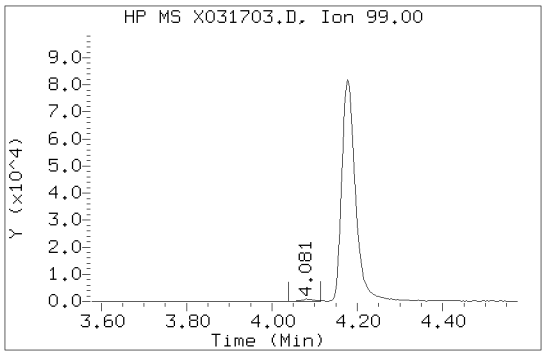
BEFORE

MASS
99
AREA
1800
HEIGHT
872
30-Mar-2023
12:33
linh
pham



AFTER

MASS
99
AREA
1800
HEIGHT
872
30-Mar-2023
12:41
linh
pham



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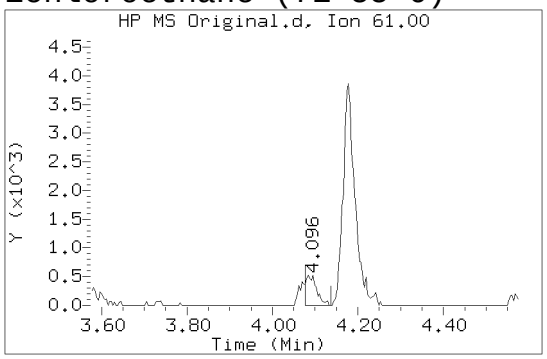
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,1,1-Trichloroethane (71-55-6)

Reason Code:

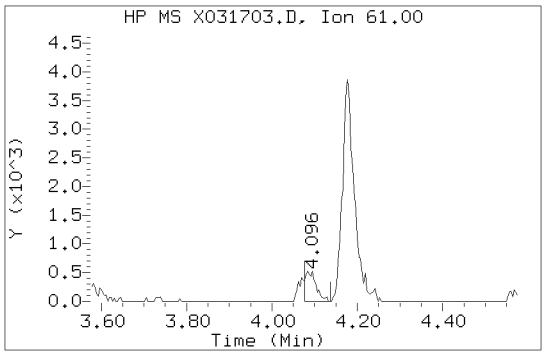
BEFORE

MASS
61
AREA
940
HEIGHT
530
30-Mar-2023
12:33
linh
pham



AFTER

MASS
61
AREA
940
HEIGHT
530
30-Mar-2023
12:41
linh
pham

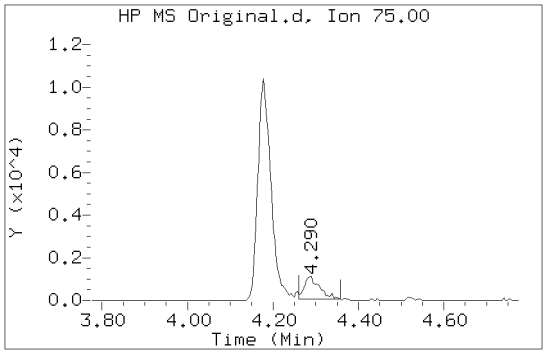


1,1-Dichloropropene (563-58-6)

Reason Code:

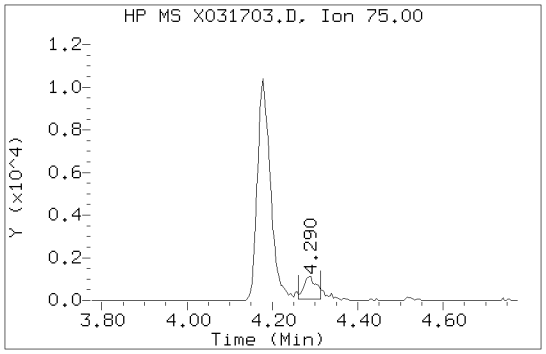
BEFORE

MASS
75
AREA
2621
HEIGHT
1062
30-Mar-2023
12:33
linh
pham



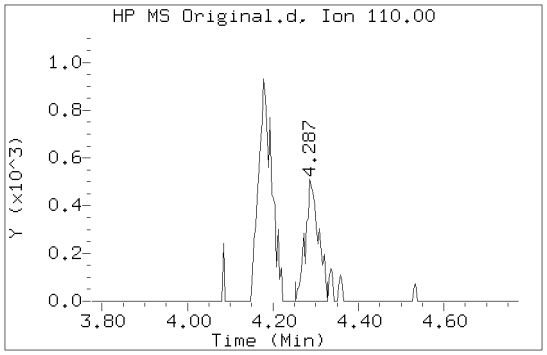
AFTER

MASS
75
AREA
2227
HEIGHT
1062
30-Mar-2023
12:41
linh
pham



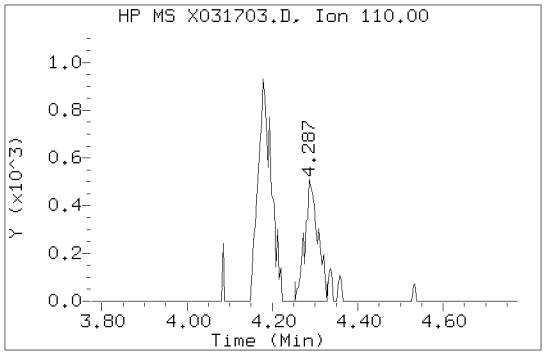
BEFORE

MASS
110
AREA
1088
HEIGHT
511
30-Mar-2023
12:33
linh
pham



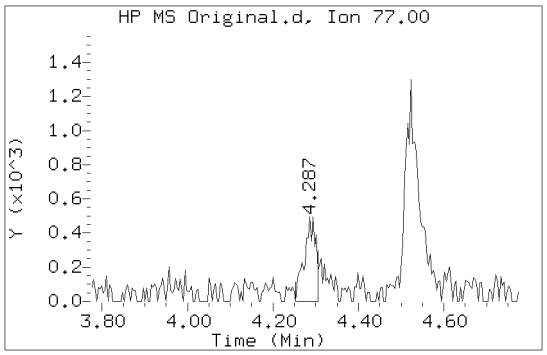
AFTER

MASS
110
AREA
1088
HEIGHT
511
30-Mar-2023
12:41
linh
pham



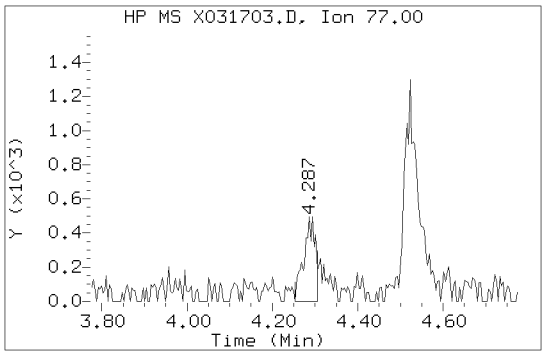
BEFORE

MASS
77
AREA
921
HEIGHT
494
30-Mar-2023
12:33
linh
pham



AFTER

MASS
77
AREA
921
HEIGHT
494
30-Mar-2023
12:41
linh
pham



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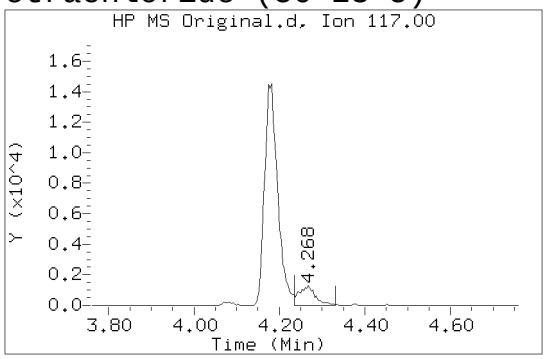
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Carbon Tetrachloride (56-23-5)

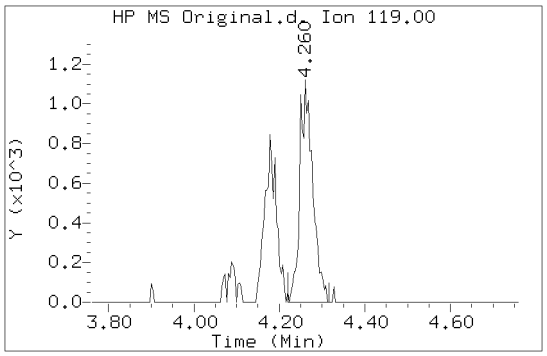
BEFORE

MASS
117
AREA
3507
HEIGHT
1289
30-Mar-2023
12:33
linh
pham



BEFORE

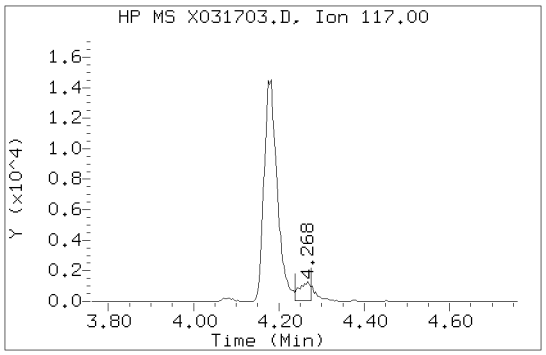
MASS
119
AREA
2388
HEIGHT
1121
30-Mar-2023
12:33
linh
pham



Reason Code:

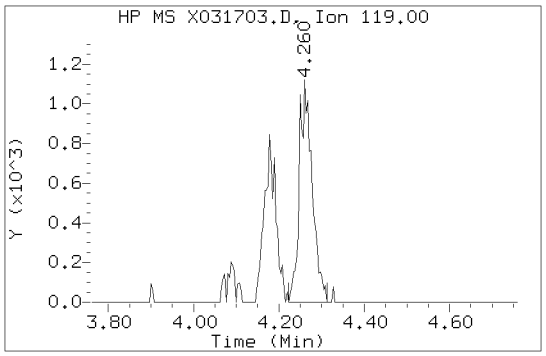
AFTER

MASS
117
AREA
2318
HEIGHT
1241
30-Mar-2023
12:41
linh
pham



AFTER

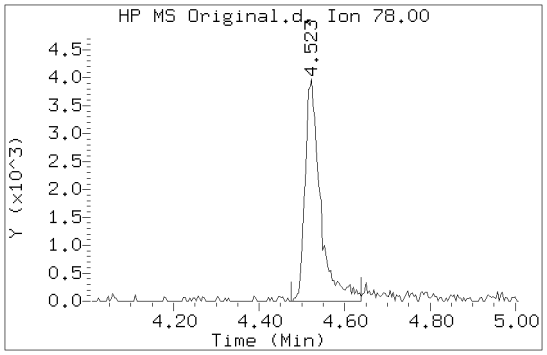
MASS
119
AREA
2377
HEIGHT
1121
30-Mar-2023
12:41
linh
pham



Benzene (71-43-2)

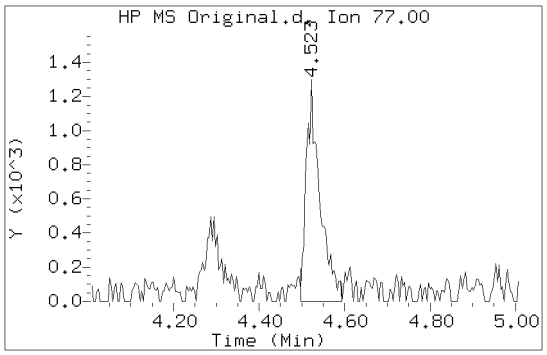
BEFORE

MASS
78
AREA
10052
HEIGHT
3980
30-Mar-2023
12:33
linh
pham



BEFORE

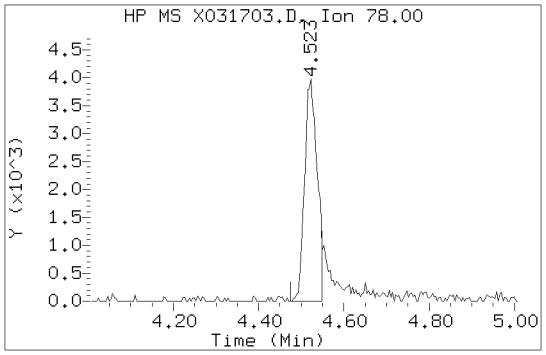
MASS
77
AREA
2911
HEIGHT
1298
30-Mar-2023
12:33
linh
pham



Reason Code:

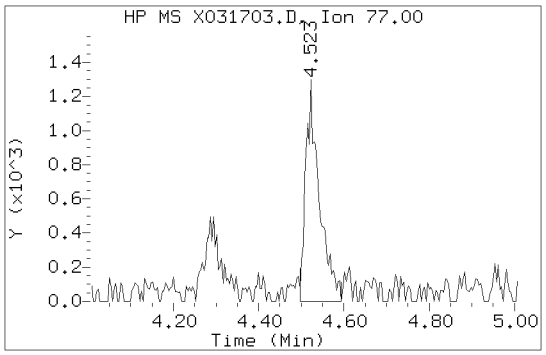
AFTER

MASS
78
AREA
8236
HEIGHT
3980
30-Mar-2023
12:41
linh
pham



AFTER

MASS
77
AREA
2911
HEIGHT
1298
30-Mar-2023
12:41
linh
pham



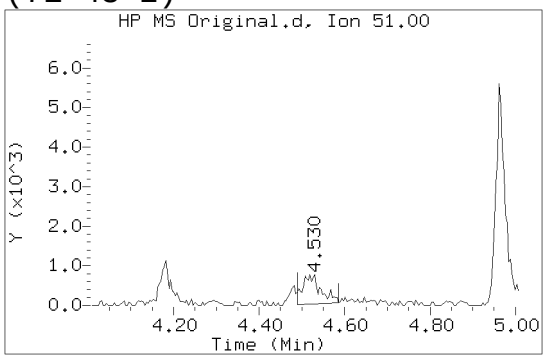
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Benzene (71-43-2)

Reason Code:

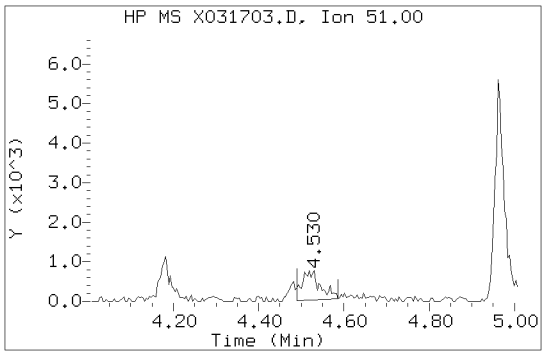
BEFORE

MASS
51
AREA
2203
HEIGHT
738
30-Mar-2023
12:33
linh
pham



AFTER

MASS
51
AREA
2203
HEIGHT
738
30-Mar-2023
12:41
linh
pham

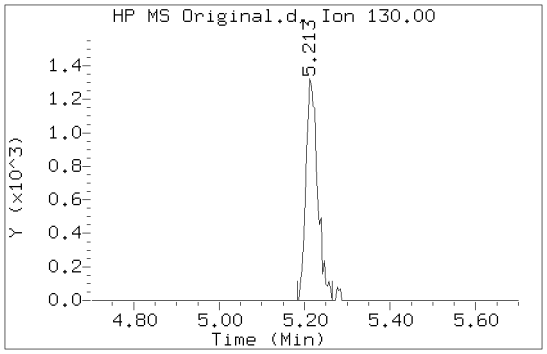


Trichloroethene (79-01-6)

Reason Code:

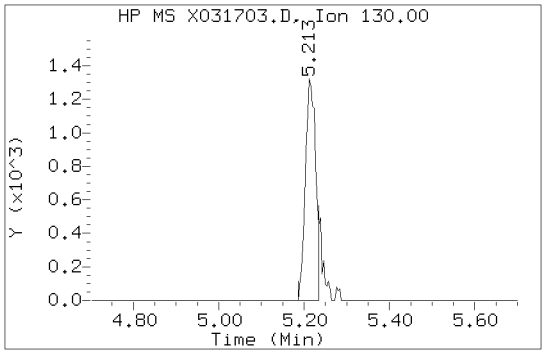
BEFORE

MASS
130
AREA
2536
HEIGHT
1323
30-Mar-2023
12:33
linh
pham



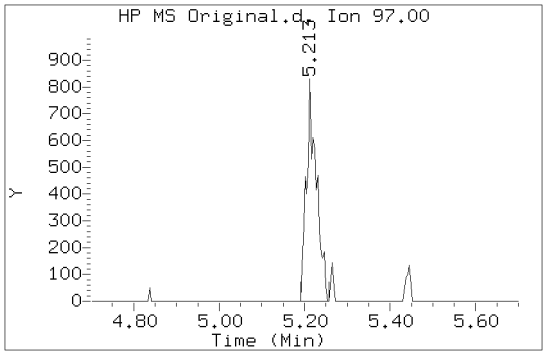
AFTER

MASS
130
AREA
2257
HEIGHT
1323
30-Mar-2023
12:41
linh
pham



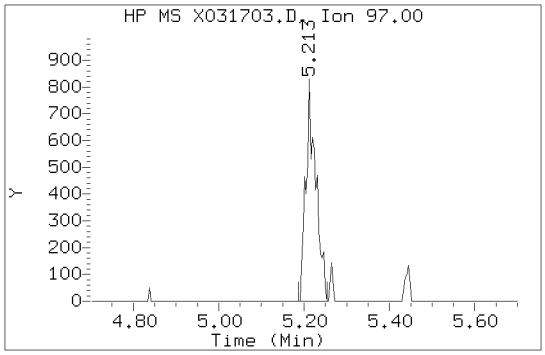
BEFORE

MASS
97
AREA
1364
HEIGHT
830
30-Mar-2023
12:33
linh
pham



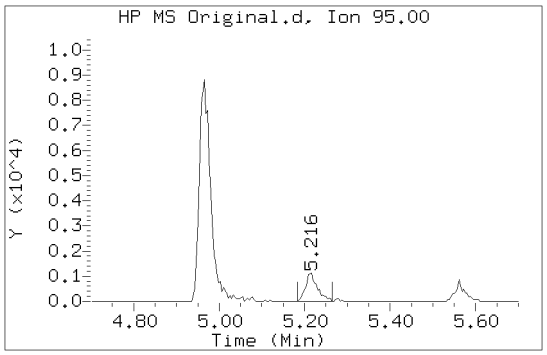
AFTER

MASS
97
AREA
1364
HEIGHT
830
30-Mar-2023
12:41
linh
pham



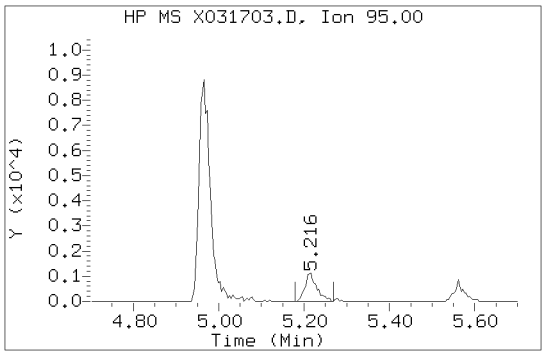
BEFORE

MASS
95
AREA
2169
HEIGHT
1117
30-Mar-2023
12:33
linh
pham



AFTER

MASS
95
AREA
2169
HEIGHT
1117
30-Mar-2023
12:41
linh
pham



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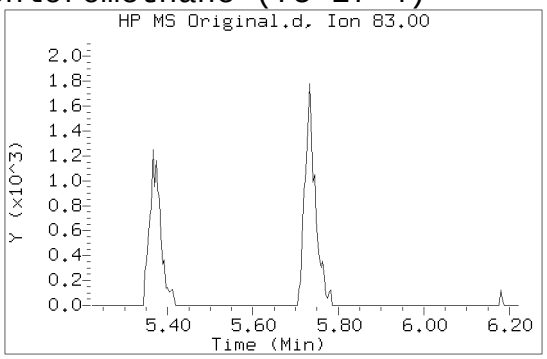
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

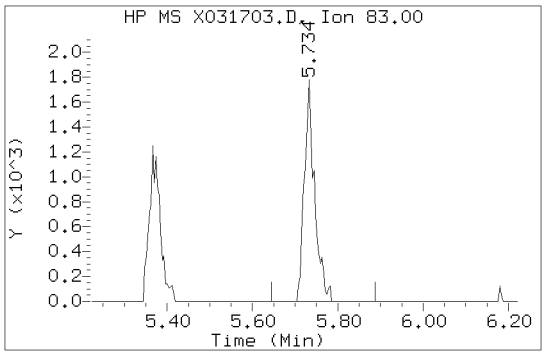
Bromodichloromethane (75-27-4)

Reason Code:

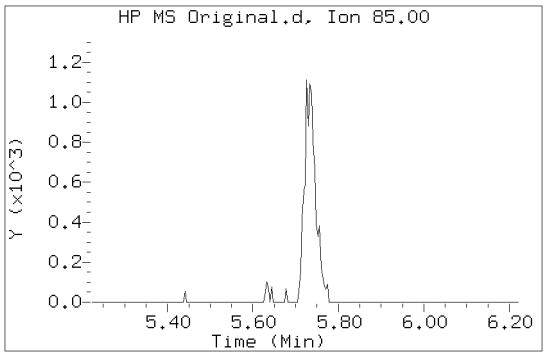
BEFORE
MASS
83
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



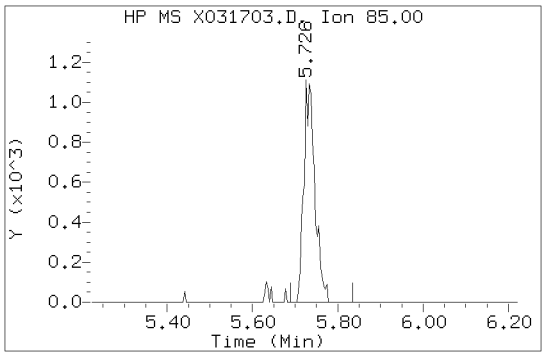
AFTER
MASS
83
AREA
3021
HEIGHT
1780
30-Mar-2023
12:41
linh
pham



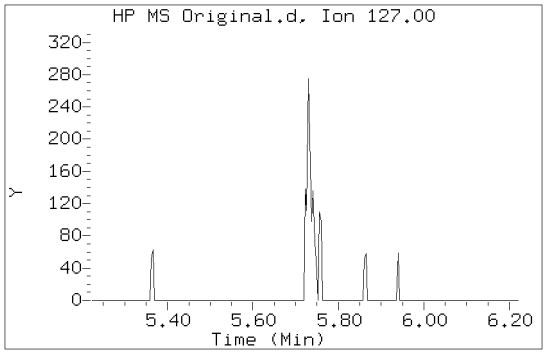
BEFORE
MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



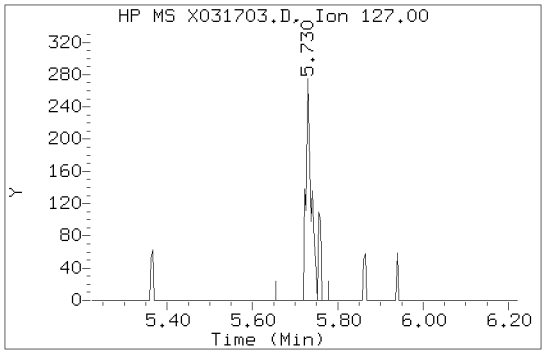
AFTER
MASS
85
AREA
2028
HEIGHT
1112
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
127
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



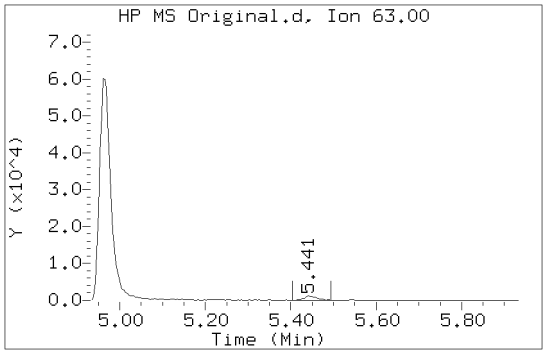
AFTER
MASS
127
AREA
290
HEIGHT
275
30-Mar-2023
12:41
linh
pham



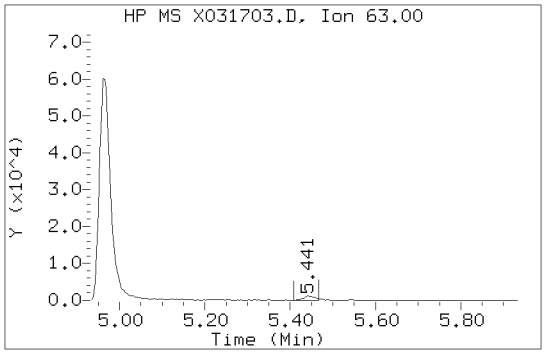
1,2-Dichloropropane (78-87-5)

Reason Code:

BEFORE
MASS
63
AREA
2510
HEIGHT
1296
30-Mar-2023
12:33
linh
pham



AFTER
MASS
63
AREA
2264
HEIGHT
1296
30-Mar-2023
12:41
linh
pham



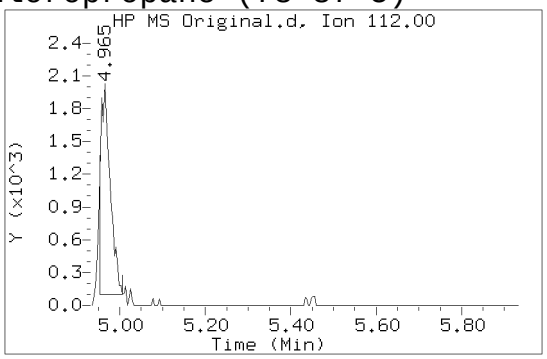
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,2-Dichloropropane (78-87-5)

Reason Code:

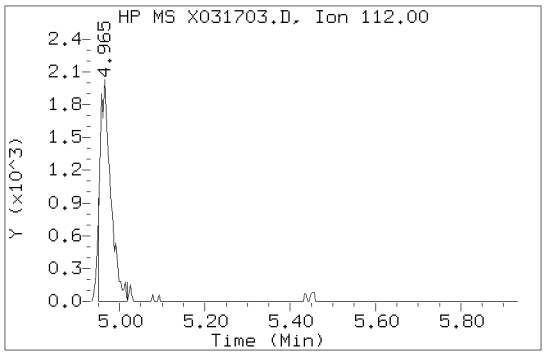
BEFORE

MASS
112
AREA
2946
HEIGHT
1928
30-Mar-2023
12:33
linh
pham



AFTER

MASS
112
AREA
3522
HEIGHT
2028
30-Mar-2023
12:41
linh
pham

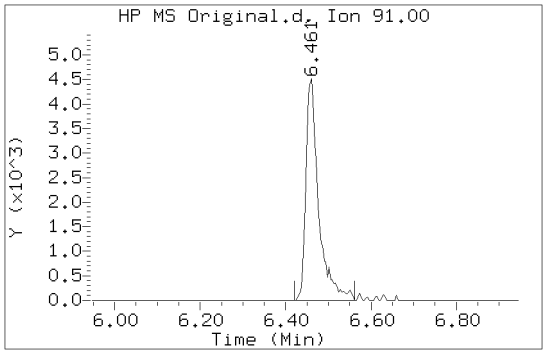


Toluene (108-88-3)

Reason Code:

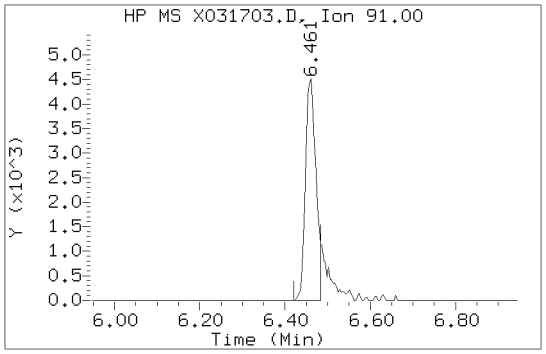
BEFORE

MASS
91
AREA
9464
HEIGHT
4516
30-Mar-2023
12:33
linh
pham



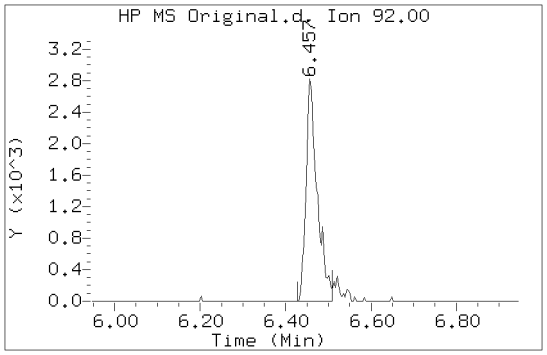
AFTER

MASS
91
AREA
7835
HEIGHT
4516
30-Mar-2023
12:41
linh
pham



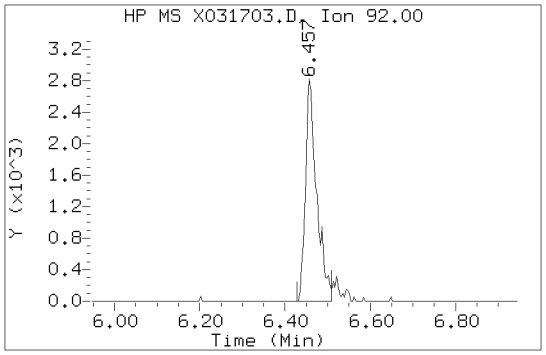
BEFORE

MASS
92
AREA
5186
HEIGHT
2823
30-Mar-2023
12:33
linh
pham



AFTER

MASS
92
AREA
5186
HEIGHT
2823
30-Mar-2023
12:41
linh
pham

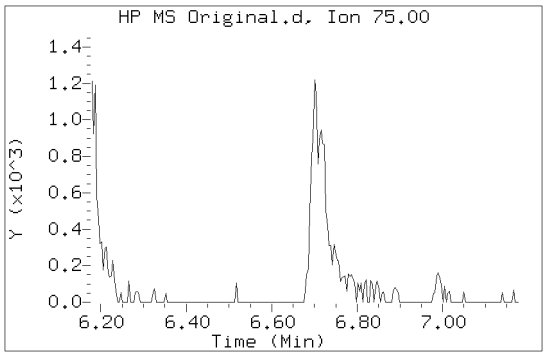


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

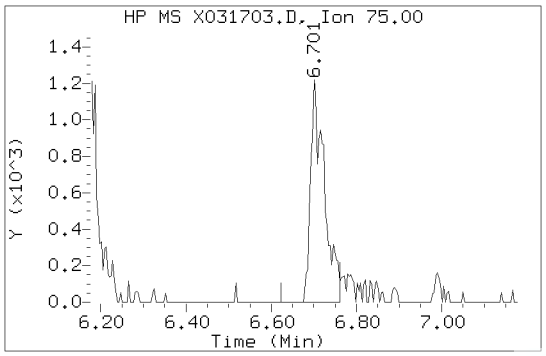
BEFORE

MASS
75
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
75
AREA
2740
HEIGHT
1219
30-Mar-2023
12:41
linh
pham



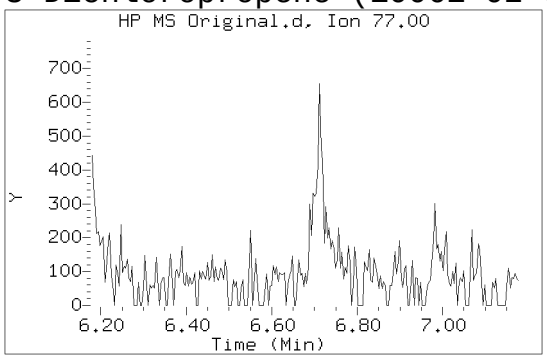
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

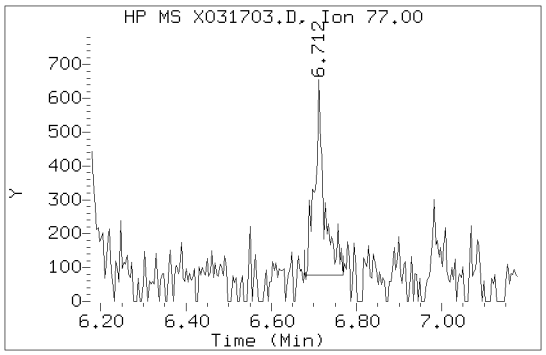
BEFORE

MASS
77
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



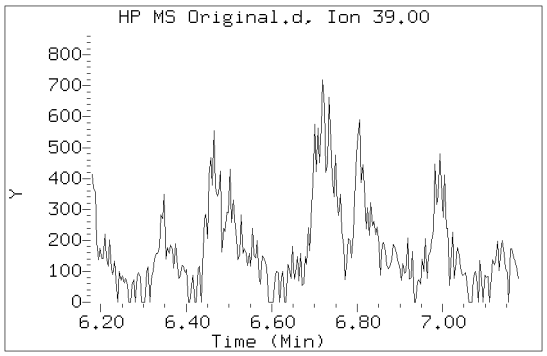
AFTER

MASS
77
AREA
910
HEIGHT
578
30-Mar-2023
12:41
linh
pham



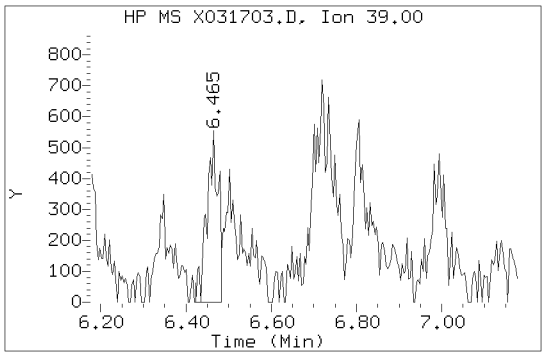
BEFORE

MASS
39
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
39
AREA
1026
HEIGHT
555
30-Mar-2023
12:41
linh
pham

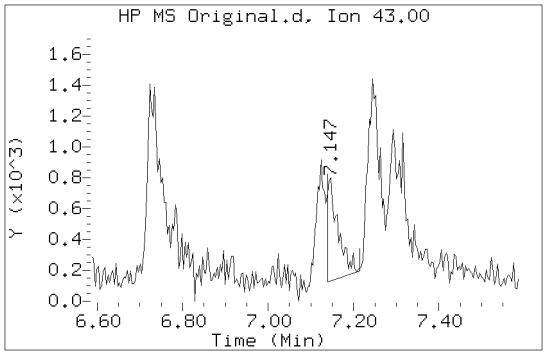


2-Hexanone (591-78-6)

Reason Code:

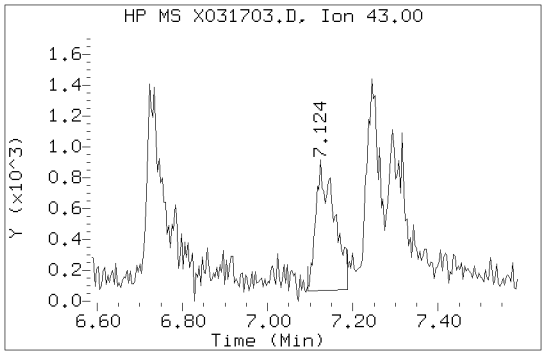
BEFORE

MASS
43
AREA
1168
HEIGHT
670
30-Mar-2023
12:33
linh
pham



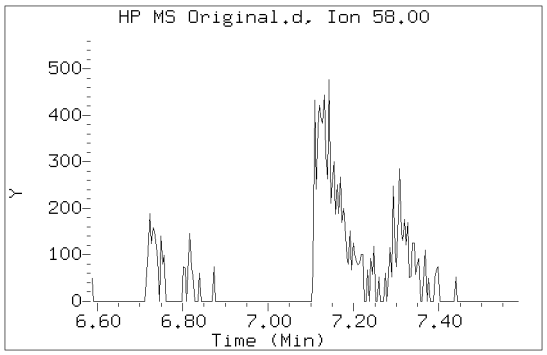
AFTER

MASS
43
AREA
2519
HEIGHT
845
30-Mar-2023
12:41
linh
pham



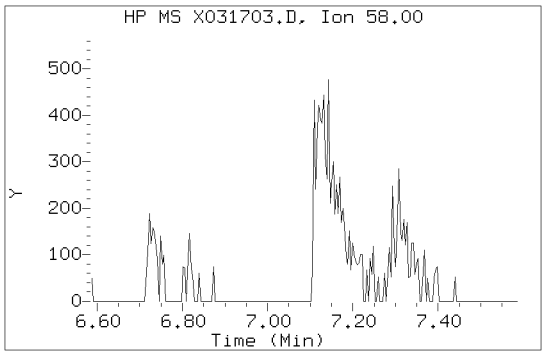
BEFORE

MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



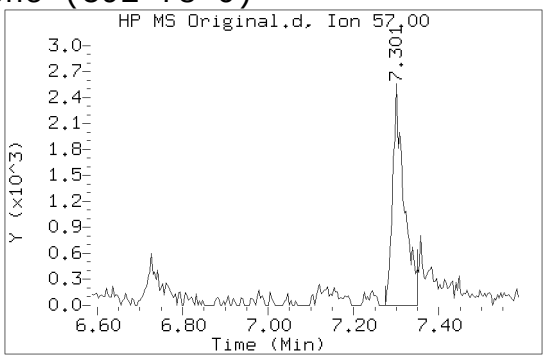
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

2-Hexanone (591-78-6)

Reason Code:

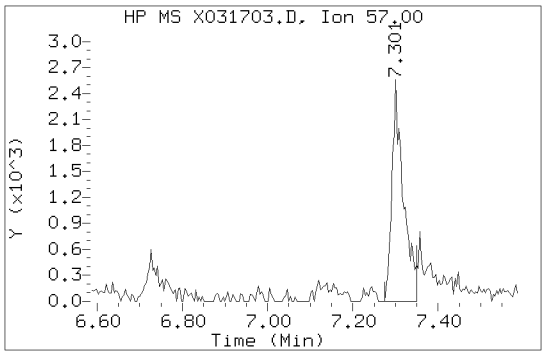
BEFORE

MASS
57
AREA
4771
HEIGHT
2561
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
4771
HEIGHT
2561
30-Mar-2023
12:41
linh
pham

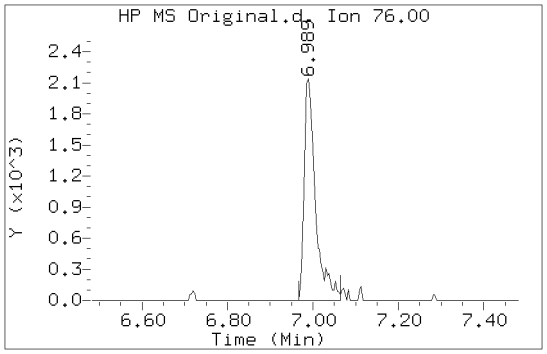


1,3-Dichloropropane (142-28-9)

Reason Code:

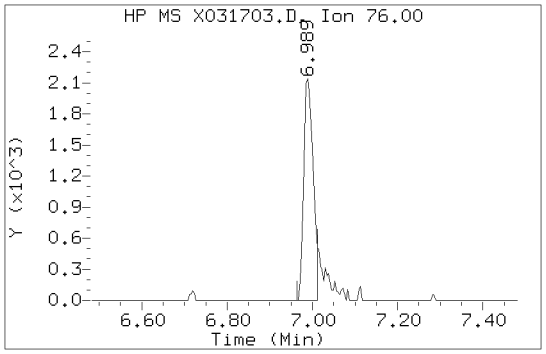
BEFORE

MASS
76
AREA
4020
HEIGHT
2140
30-Mar-2023
12:33
linh
pham



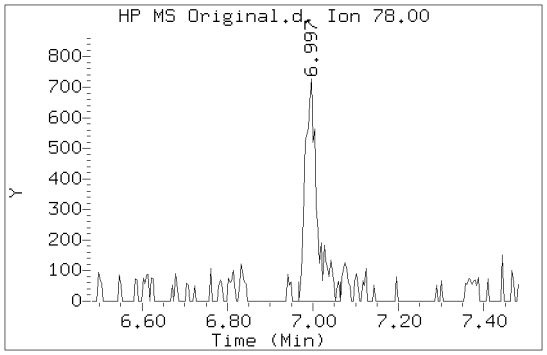
AFTER

MASS
76
AREA
3374
HEIGHT
2140
30-Mar-2023
12:41
linh
pham



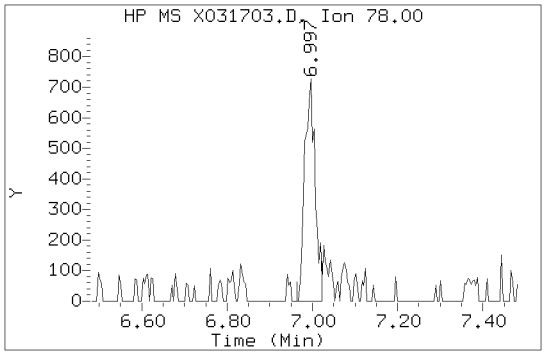
BEFORE

MASS
78
AREA
1457
HEIGHT
727
30-Mar-2023
12:33
linh
pham



AFTER

MASS
78
AREA
1252
HEIGHT
727
30-Mar-2023
12:41
linh
pham

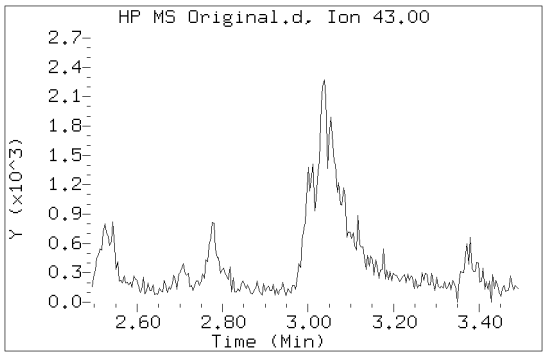


Vinyl Acetate (108-05-4)

Reason Code:

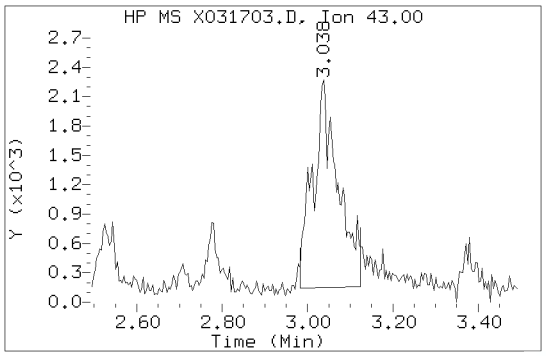
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
AREA
8761
HEIGHT
2120
30-Mar-2023
12:41
linh
pham



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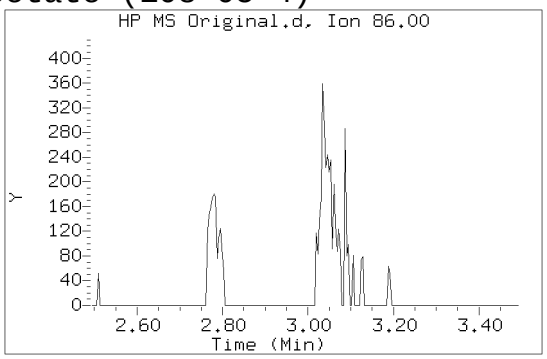
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Vinyl Acetate (108-05-4)

Reason Code:

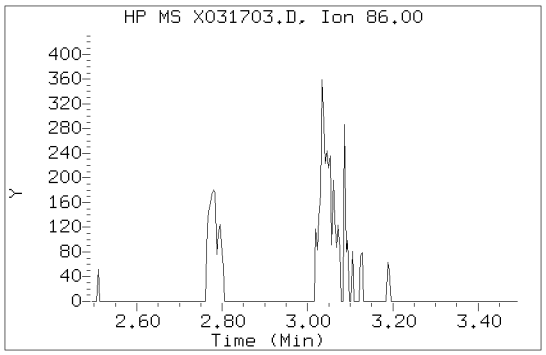
BEFORE

MASS
86
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
86
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

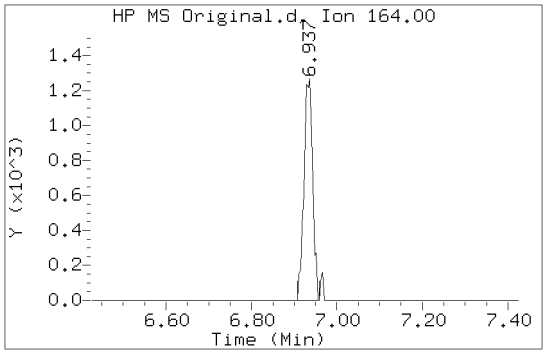


Tetrachloroethene (127-18-4)

Reason Code:

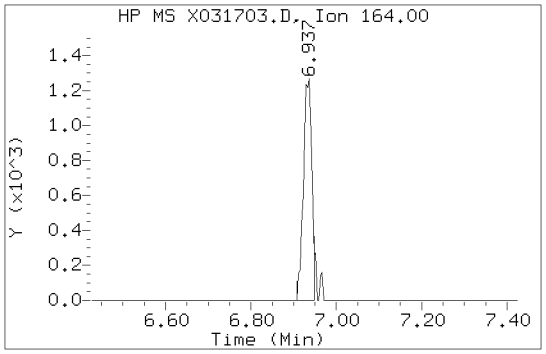
BEFORE

MASS
164
AREA
1838
HEIGHT
1268
30-Mar-2023
12:33
linh
pham



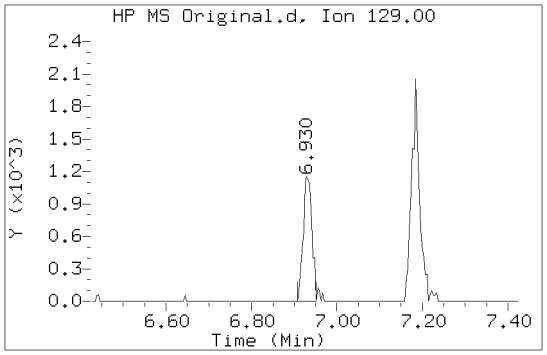
AFTER

MASS
164
AREA
1777
HEIGHT
1268
30-Mar-2023
12:41
linh
pham



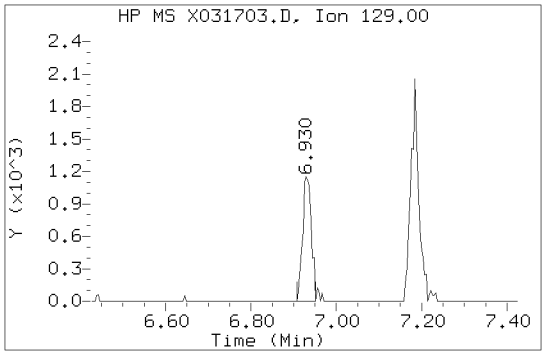
BEFORE

MASS
129
AREA
1687
HEIGHT
1152
30-Mar-2023
12:33
linh
pham



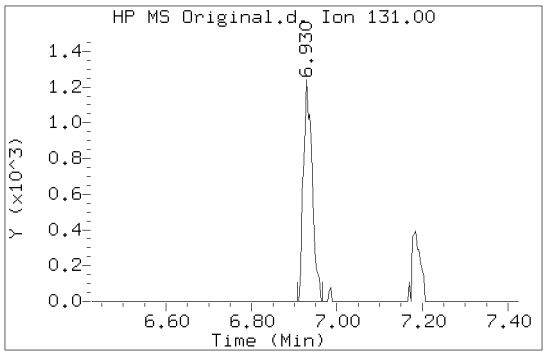
AFTER

MASS
129
AREA
1687
HEIGHT
1152
30-Mar-2023
12:41
linh
pham



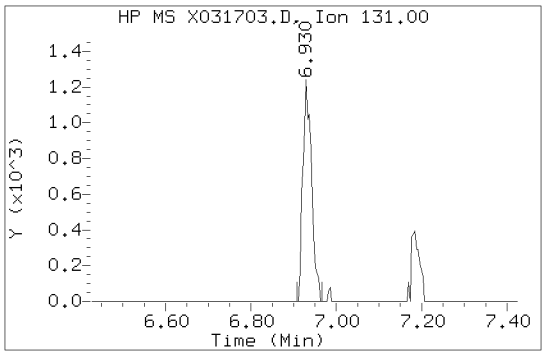
BEFORE

MASS
131
AREA
1803
HEIGHT
1241
30-Mar-2023
12:33
linh
pham



AFTER

MASS
131
AREA
1803
HEIGHT
1241
30-Mar-2023
12:41
linh
pham



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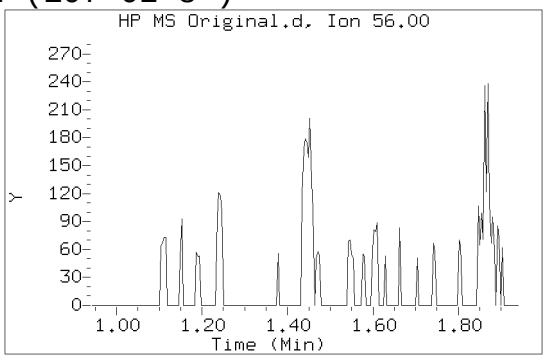
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

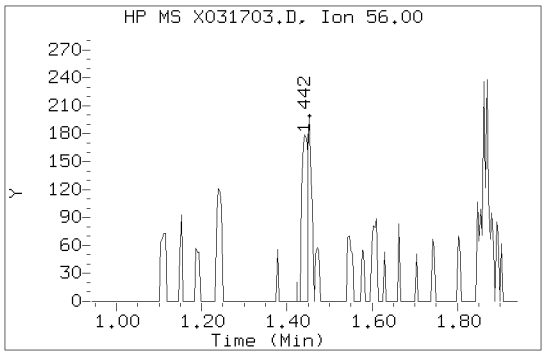
Acrolein (107-02-8)

Reason Code:

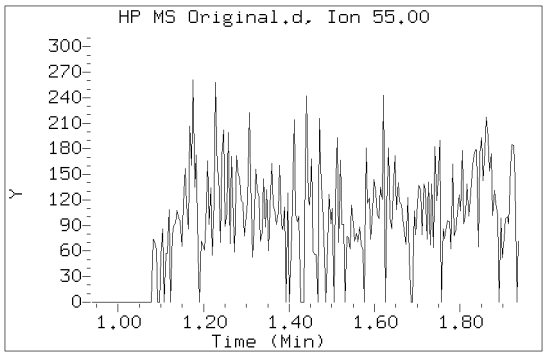
BEFORE
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



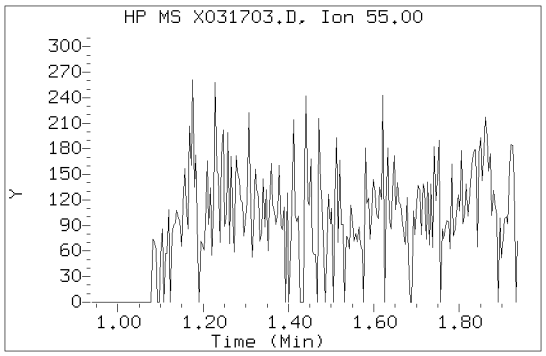
AFTER
MASS
56
AREA
179
HEIGHT
179
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



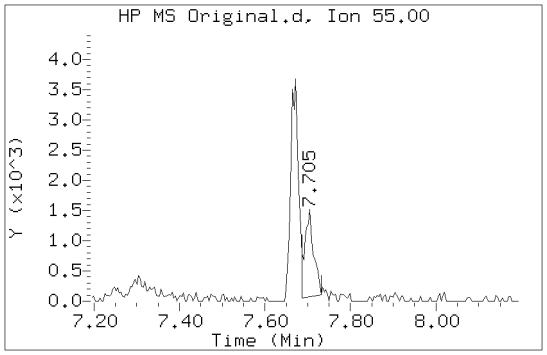
AFTER
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



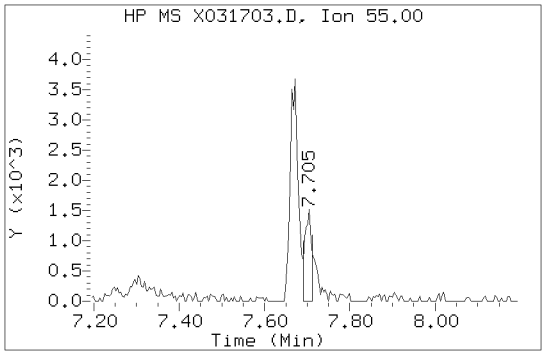
1-Chlorohexane (544-10-5)

Reason Code:

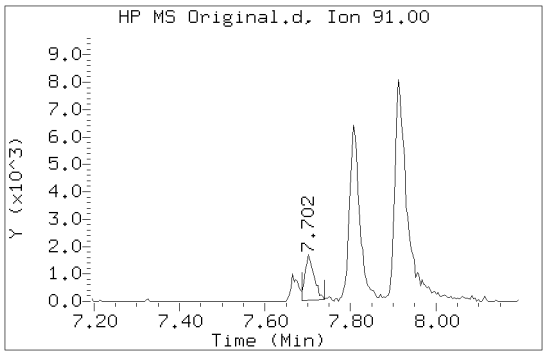
BEFORE
MASS
55
AREA
2152
HEIGHT
1452
30-Mar-2023
12:33
linh
pham



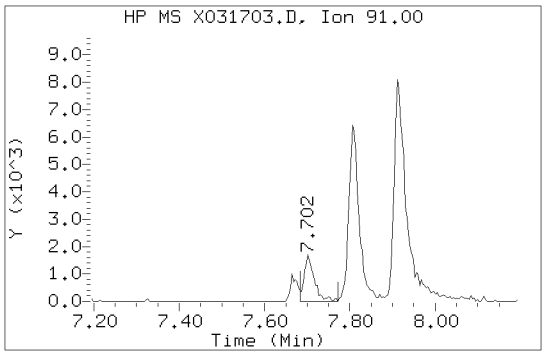
AFTER
MASS
55
AREA
1701
HEIGHT
1525
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
91
AREA
2461
HEIGHT
1668
30-Mar-2023
12:33
linh
pham



AFTER
MASS
91
AREA
2906
HEIGHT
1713
30-Mar-2023
12:41
linh
pham

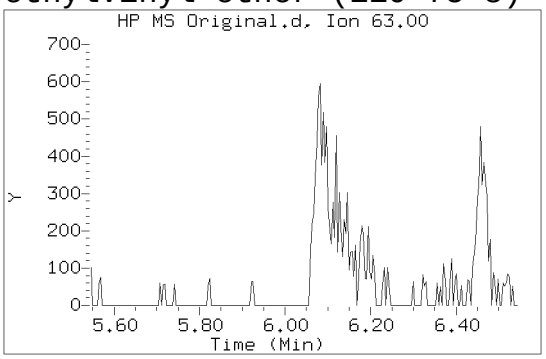


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

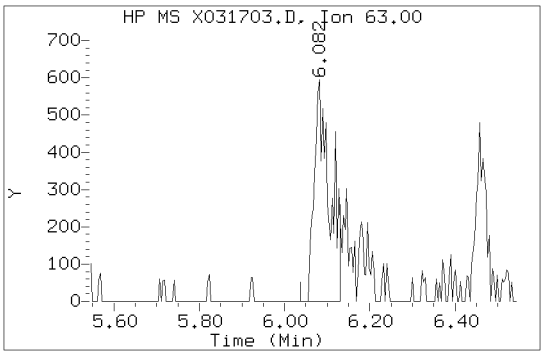
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

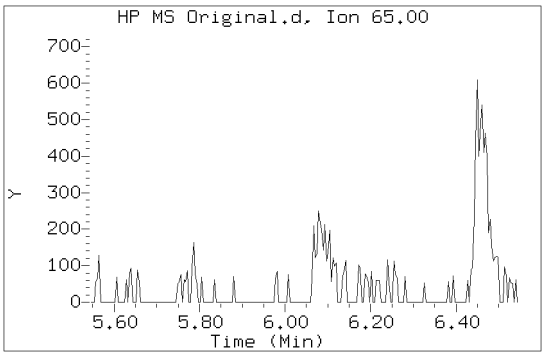
BEFORE
MASS
63
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



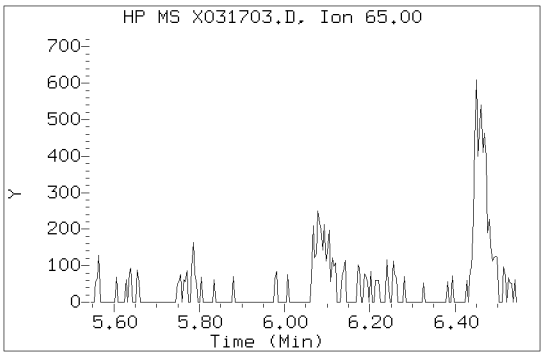
AFTER
MASS
63
AREA
1463
HEIGHT
595
30-Mar-2023
12:41
linh
pham



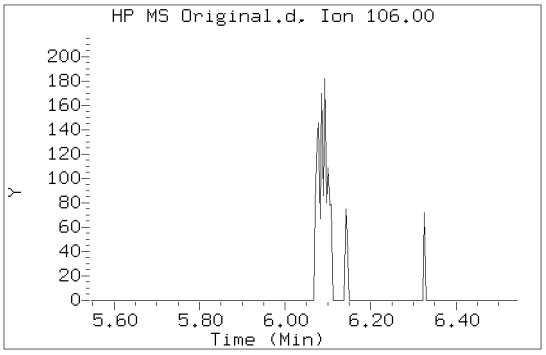
BEFORE
MASS
65
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



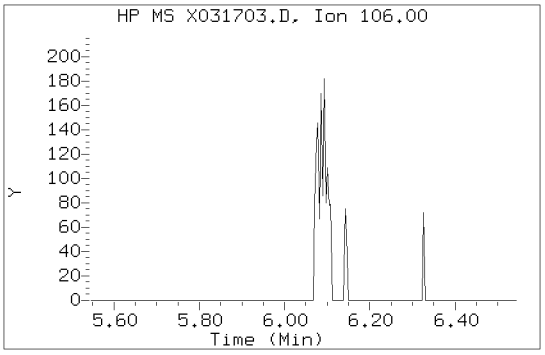
AFTER
MASS
65
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
106
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



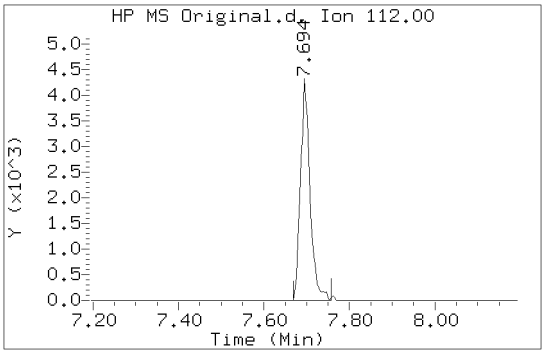
AFTER
MASS
106
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



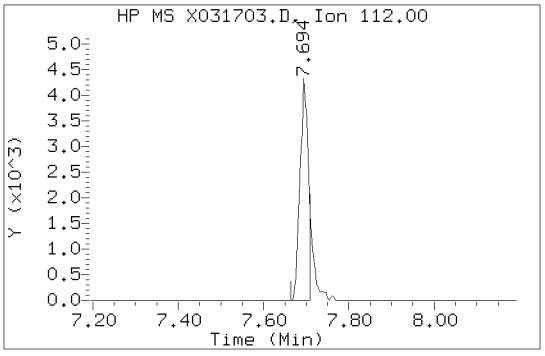
Chlorobenzene (108-90-7)

Reason Code:

BEFORE
MASS
112
AREA
6857
HEIGHT
4318
30-Mar-2023
12:33
linh
pham



AFTER
MASS
112
AREA
5868
HEIGHT
4318
30-Mar-2023
12:41
linh
pham



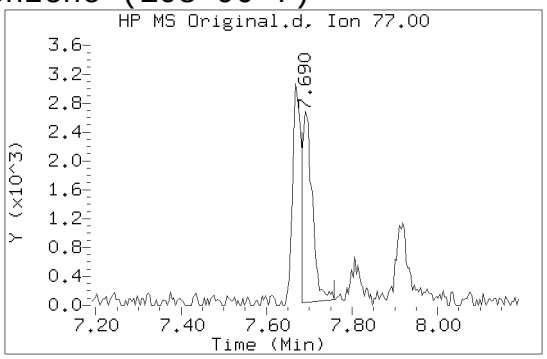
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Chlorobenzene (108-90-7)

Reason Code:

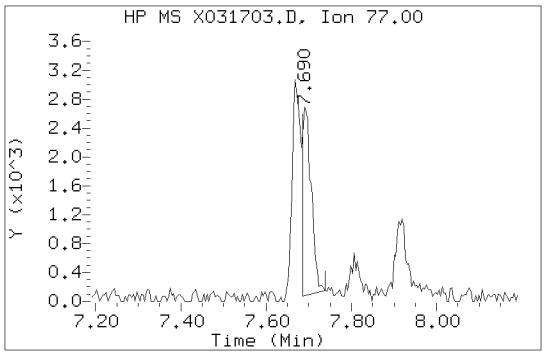
BEFORE

MASS
77
AREA
4396
HEIGHT
2653
30-Mar-2023
12:33
linh
pham



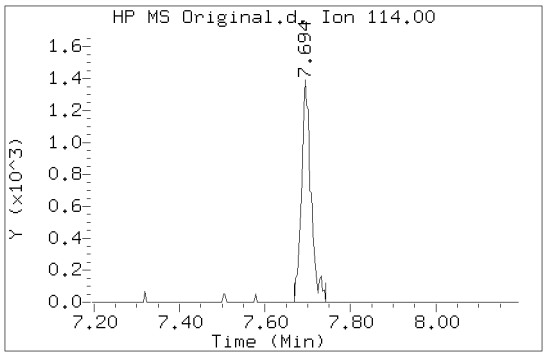
AFTER

MASS
77
AREA
3627
HEIGHT
2613
30-Mar-2023
12:41
linh
pham



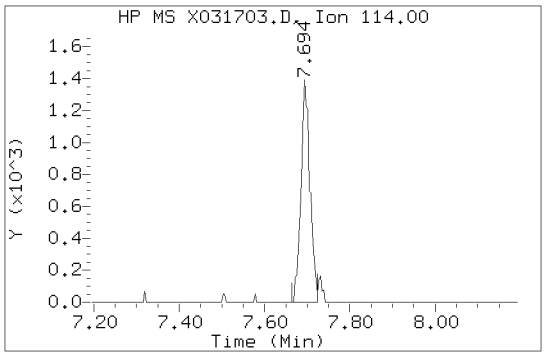
BEFORE

MASS
114
AREA
2201
HEIGHT
1392
30-Mar-2023
12:33
linh
pham



AFTER

MASS
114
AREA
2102
HEIGHT
1392
30-Mar-2023
12:41
linh
pham

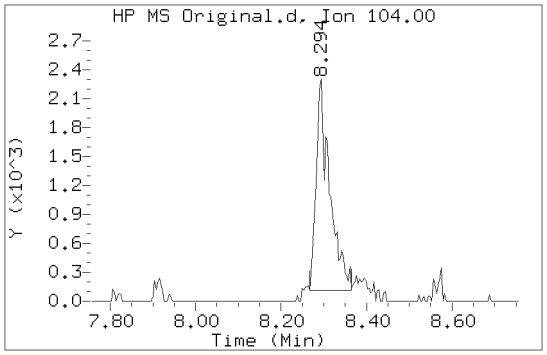


Styrene (100-42-5)

Reason Code:

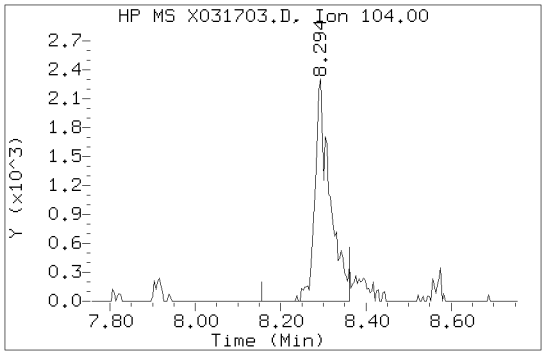
BEFORE

MASS
104
AREA
4816
HEIGHT
2195
30-Mar-2023
12:33
linh
pham



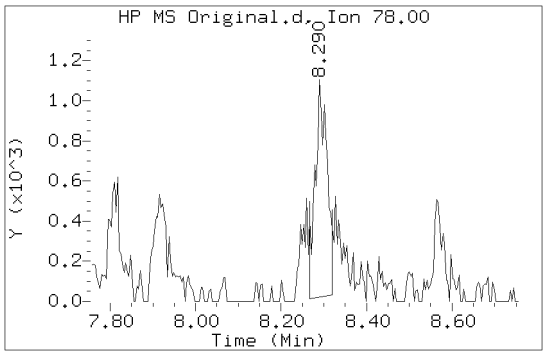
AFTER

MASS
104
AREA
5629
HEIGHT
2306
30-Mar-2023
12:41
linh
pham



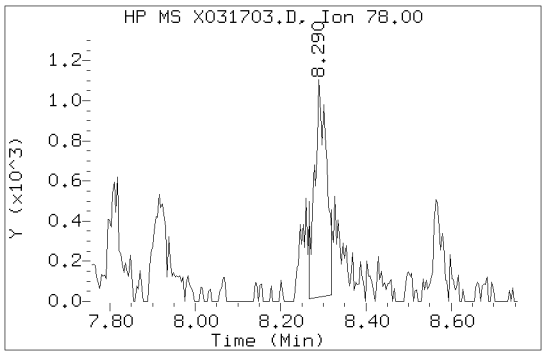
BEFORE

MASS
78
AREA
2108
HEIGHT
1083
30-Mar-2023
12:33
linh
pham



AFTER

MASS
78
AREA
2108
HEIGHT
1083
30-Mar-2023
12:41
linh
pham



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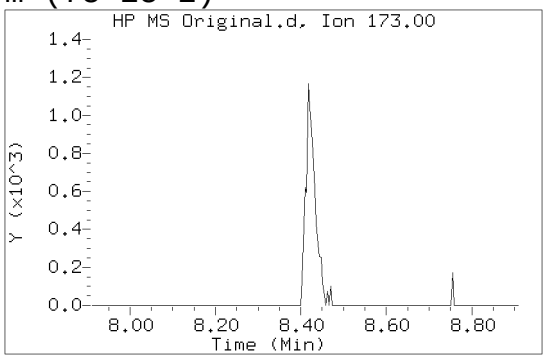
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Bromoform (75-25-2)

Reason Code:

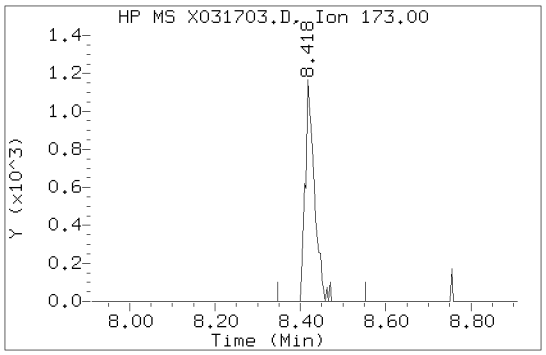
BEFORE

MASS
173
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



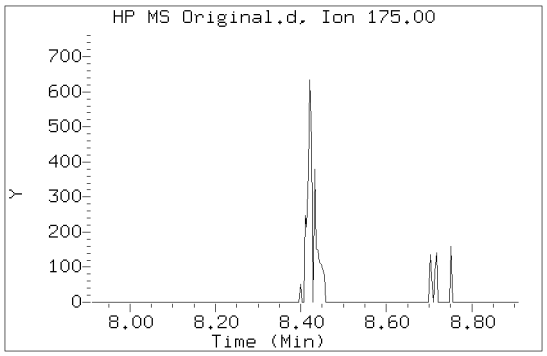
AFTER

MASS
173
AREA
1781
HEIGHT
1167
30-Mar-2023
12:41
linh
pham



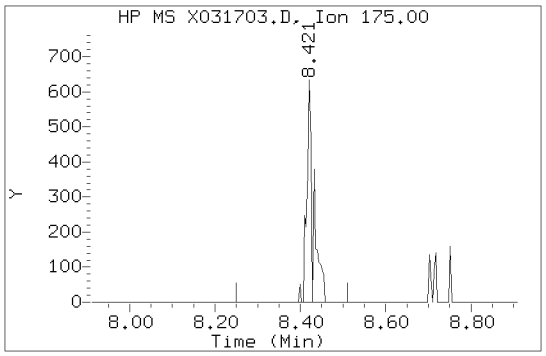
BEFORE

MASS
175
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



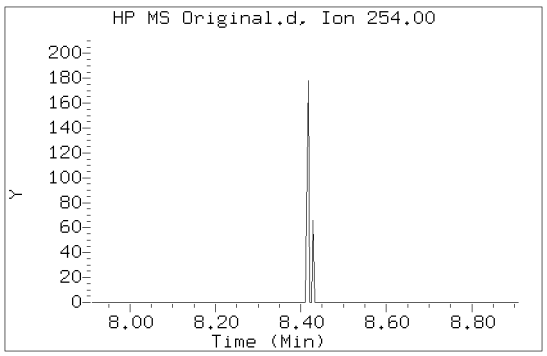
AFTER

MASS
175
AREA
685
HEIGHT
634
30-Mar-2023
12:41
linh
pham



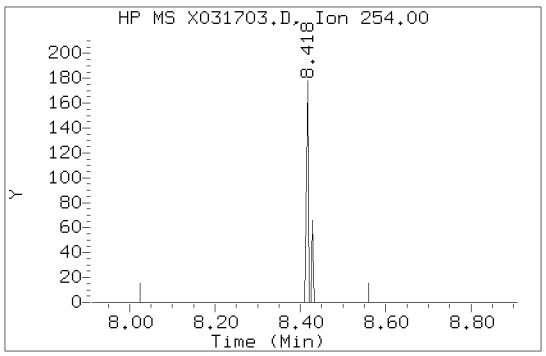
BEFORE

MASS
254
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
254
AREA
70
HEIGHT
178
30-Mar-2023
12:41
linh
pham

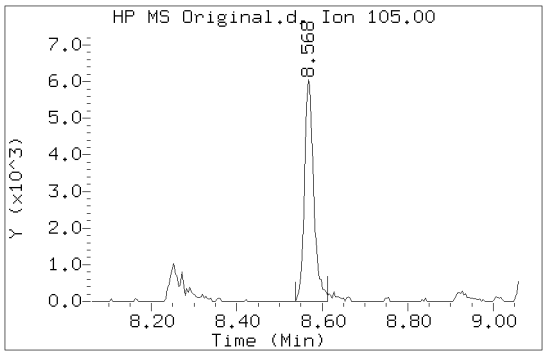


Isopropylbenzene (98-82-8)

Reason Code:

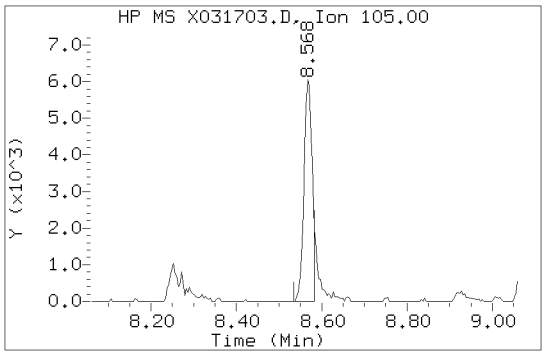
BEFORE

MASS
105
AREA
9286
HEIGHT
6052
30-Mar-2023
12:33
linh
pham



AFTER

MASS
105
AREA
8191
HEIGHT
6052
30-Mar-2023
12:41
linh
pham



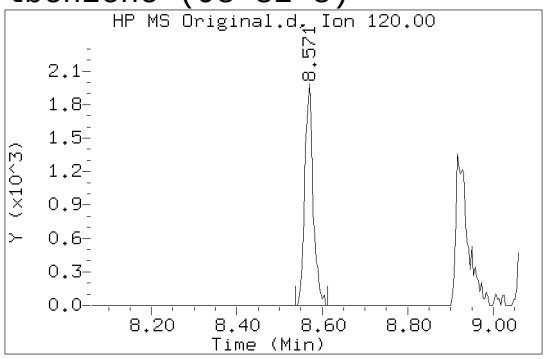
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Isopropylbenzene (98-82-8)

Reason Code:

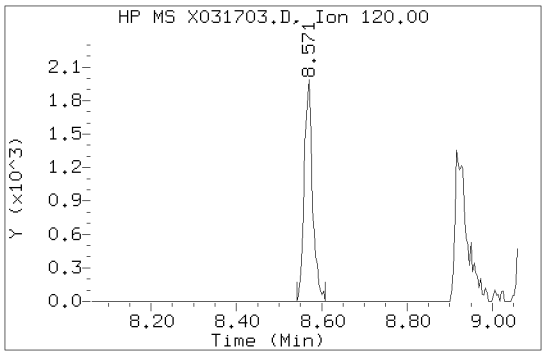
BEFORE

MASS
120
AREA
2761
HEIGHT
1988
30-Mar-2023
12:33
linh
pham



AFTER

MASS
120
AREA
2761
HEIGHT
1988
30-Mar-2023
12:41
linh
pham

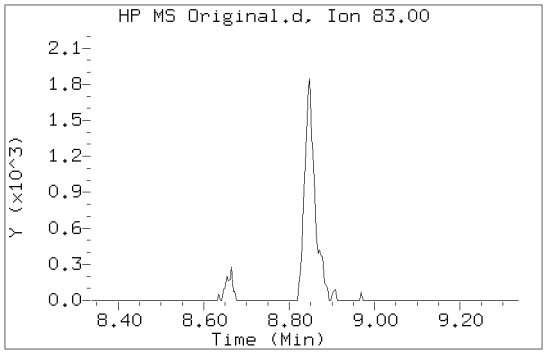


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

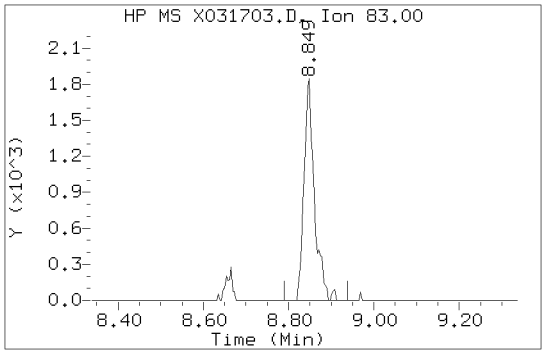
BEFORE

MASS
83
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



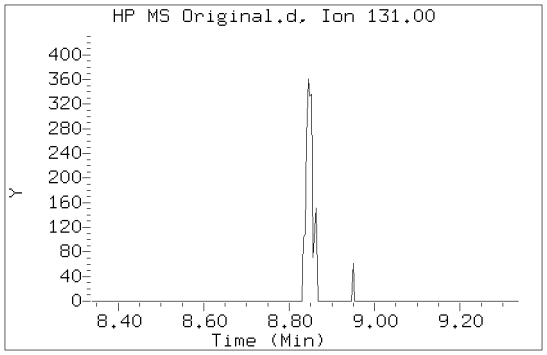
AFTER

MASS
83
AREA
3141
HEIGHT
1846
30-Mar-2023
12:41
linh
pham



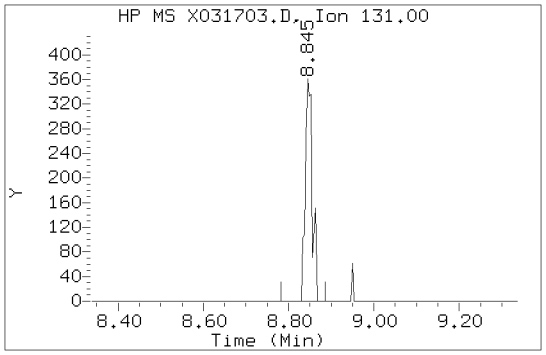
BEFORE

MASS
131
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



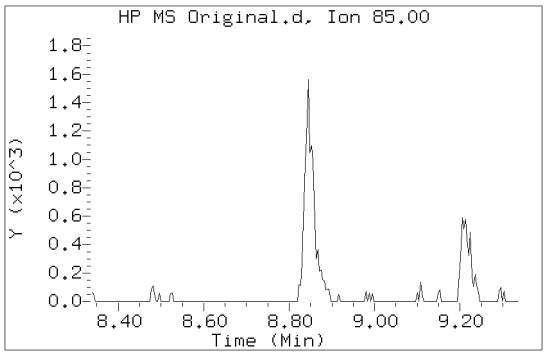
AFTER

MASS
131
AREA
415
HEIGHT
361
30-Mar-2023
12:41
linh
pham



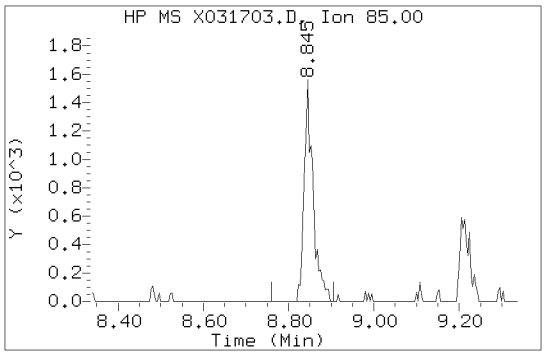
BEFORE

MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
85
AREA
2273
HEIGHT
1562
30-Mar-2023
12:41
linh
pham

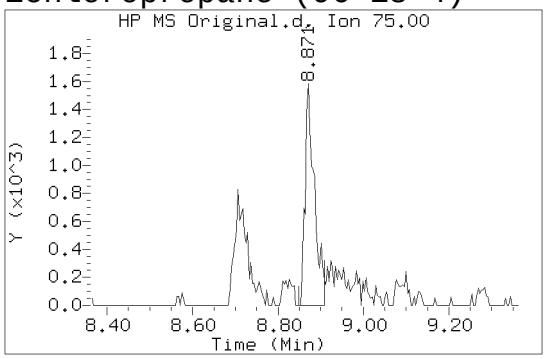


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

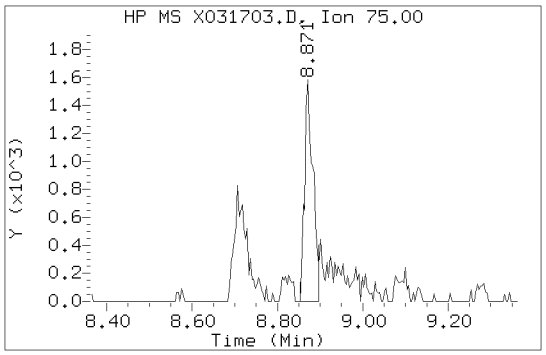
1,2,3-Trichloropropane (96-18-4)

Reason Code:

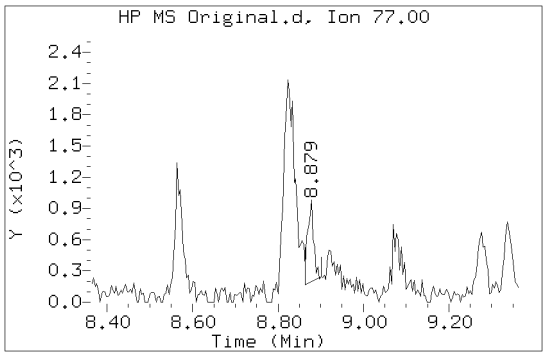
BEFORE
MASS
75
AREA
2415
HEIGHT
1584
30-Mar-2023
12:33
linh
pham



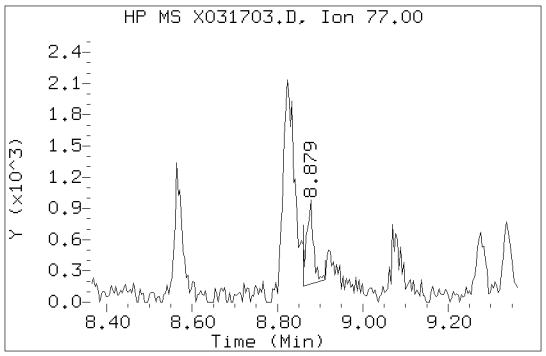
AFTER
MASS
75
AREA
2211
HEIGHT
1584
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
77
AREA
763
HEIGHT
780
30-Mar-2023
12:33
linh
pham



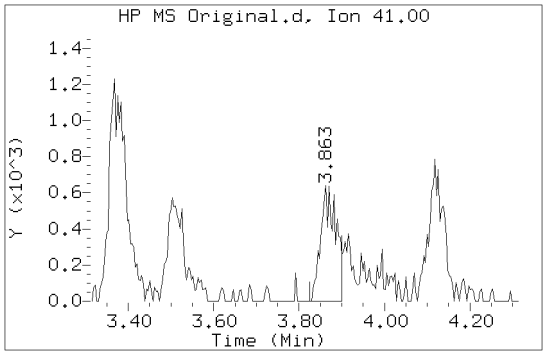
AFTER
MASS
77
AREA
945
HEIGHT
806
30-Mar-2023
12:41
linh
pham



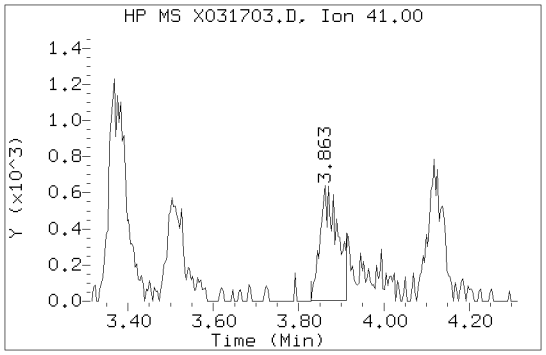
Methacrylonitrile (126-98-7)

Reason Code:

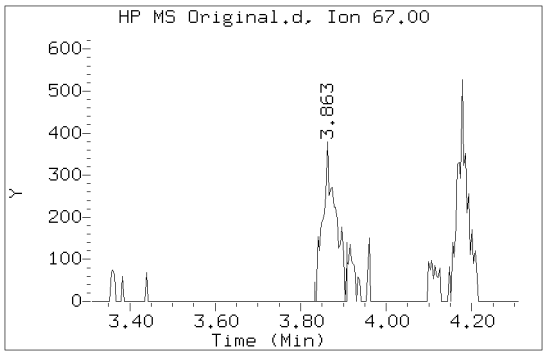
BEFORE
MASS
41
AREA
1593
HEIGHT
639
30-Mar-2023
12:33
linh
pham



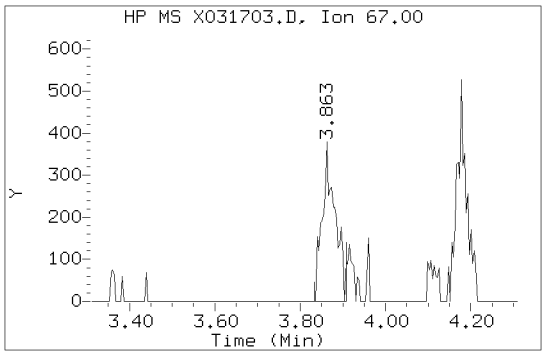
AFTER
MASS
41
AREA
1764
HEIGHT
634
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
67
AREA
804
HEIGHT
379
30-Mar-2023
12:33
linh
pham



AFTER
MASS
67
AREA
804
HEIGHT
379
30-Mar-2023
12:41
linh
pham



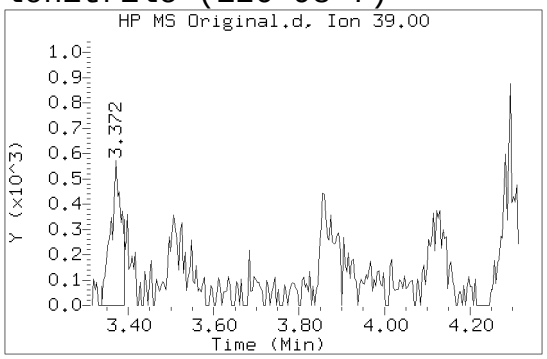
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Methacrylonitrile (126-98-7)

Reason Code:

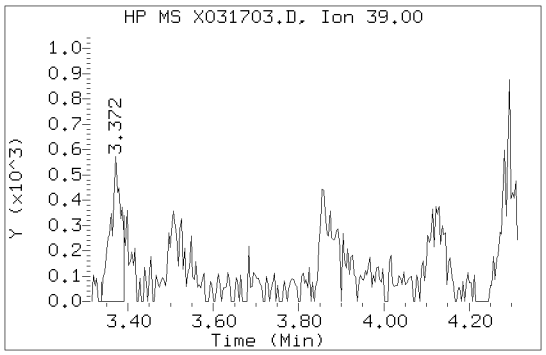
BEFORE

MASS
39
AREA
985
HEIGHT
573
30-Mar-2023
12:33
linh
pham



AFTER

MASS
39
AREA
985
HEIGHT
573
30-Mar-2023
12:41
linh
pham

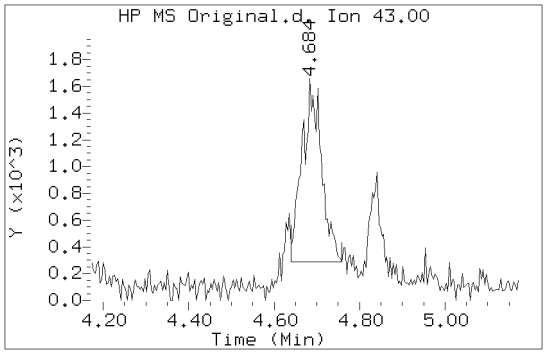


Isobutyl Alcohol (78-83-1)

Reason Code:

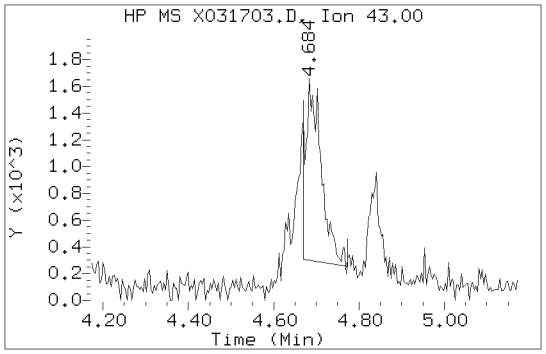
BEFORE

MASS
43
AREA
4301
HEIGHT
1369
30-Mar-2023
12:33
linh
pham



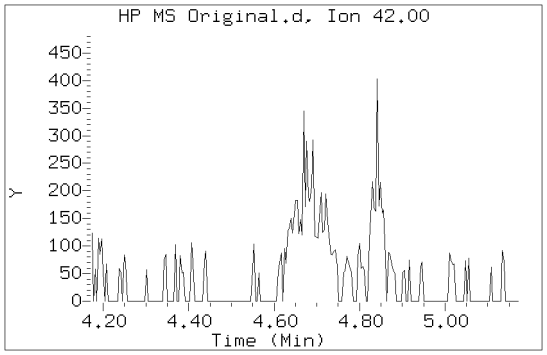
AFTER

MASS
43
AREA
3536
HEIGHT
1356
30-Mar-2023
12:41
linh
pham



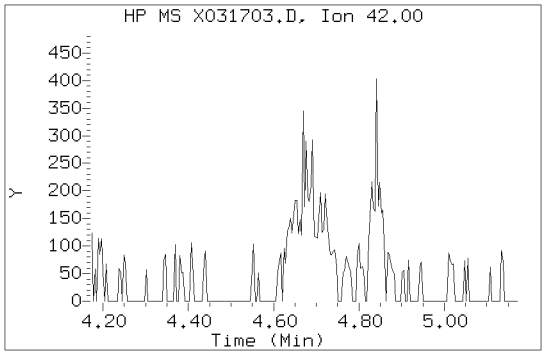
BEFORE

MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



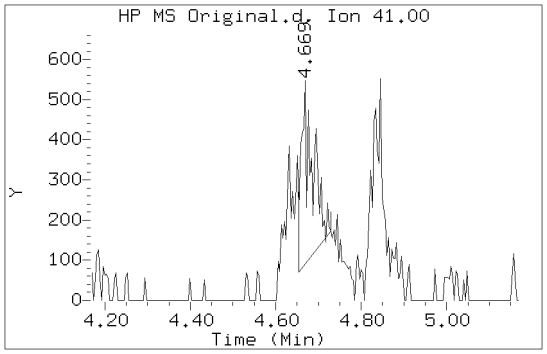
AFTER

MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



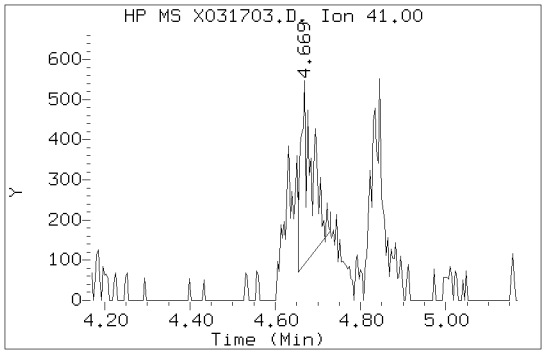
BEFORE

MASS
41
AREA
854
HEIGHT
456
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
854
HEIGHT
456
30-Mar-2023
12:41
linh
pham



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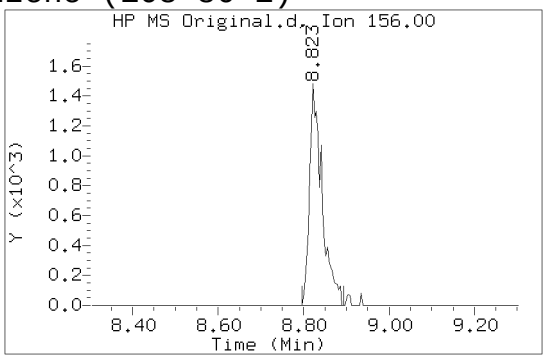
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

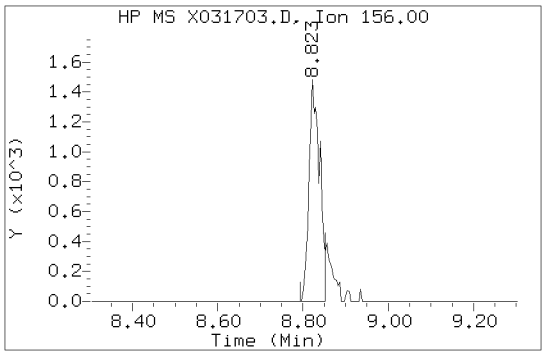
Bromobenzene (108-86-1)

Reason Code:

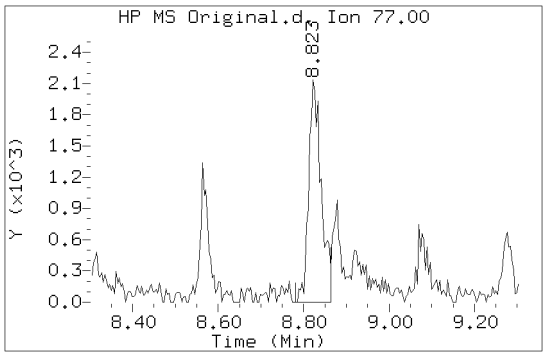
BEFORE
MASS
156
AREA
3020
HEIGHT
1482
30-Mar-2023
12:33
linh
pham



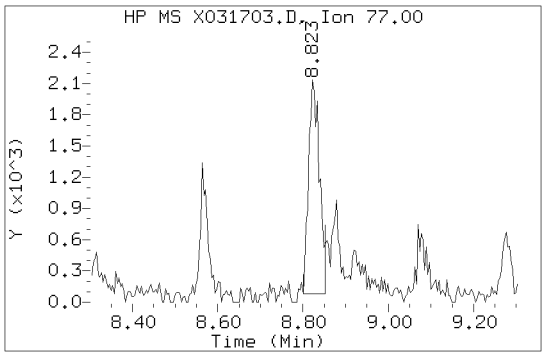
AFTER
MASS
156
AREA
2604
HEIGHT
1482
30-Mar-2023
12:41
linh
pham



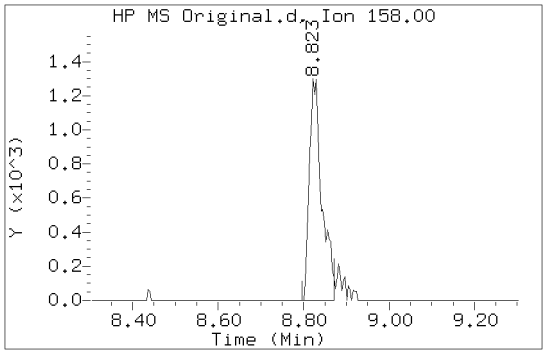
BEFORE
MASS
77
AREA
4369
HEIGHT
2135
30-Mar-2023
12:33
linh
pham



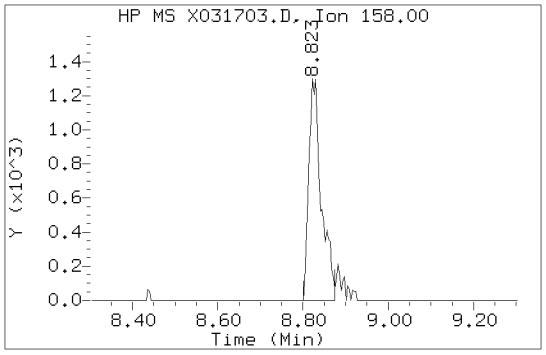
AFTER
MASS
77
AREA
3655
HEIGHT
2052
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
158
AREA
2647
HEIGHT
1300
30-Mar-2023
12:33
linh
pham



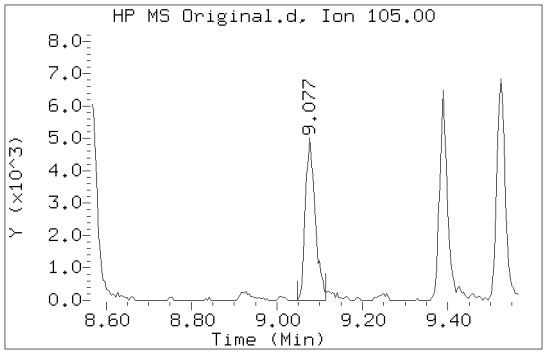
AFTER
MASS
158
AREA
2662
HEIGHT
1300
30-Mar-2023
12:41
linh
pham



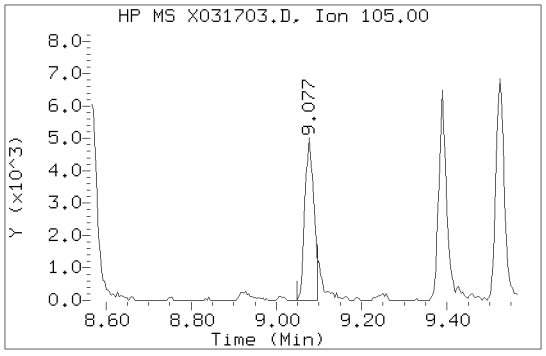
1,3,5-Trimethylbenzene (108-67-8)

Reason Code:

BEFORE
MASS
105
AREA
8079
HEIGHT
5018
30-Mar-2023
12:33
linh
pham



AFTER
MASS
105
AREA
7357
HEIGHT
5018
30-Mar-2023
12:41
linh
pham



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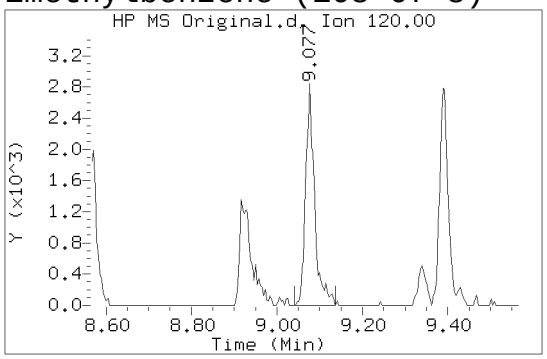
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,3,5-Trimethylbenzene (108-67-8)

Reason Code:

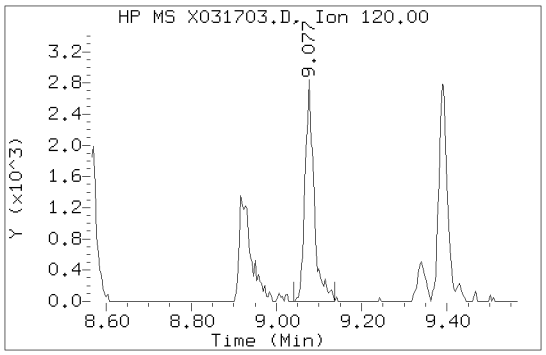
BEFORE

MASS
120
AREA
4167
HEIGHT
2842
30-Mar-2023
12:33
linh
pham



AFTER

MASS
120
AREA
4167
HEIGHT
2842
30-Mar-2023
12:41
linh
pham

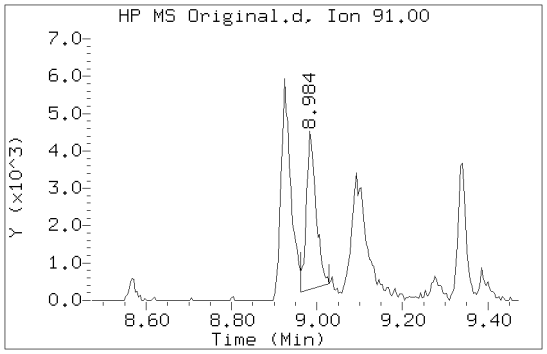


2-Chlorotoluene (95-49-8)

Reason Code:

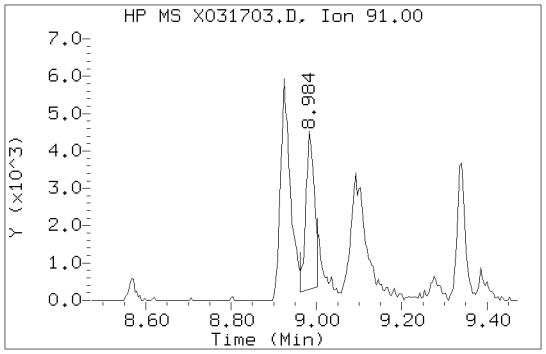
BEFORE

MASS
91
AREA
6692
HEIGHT
4231
30-Mar-2023
12:33
linh
pham



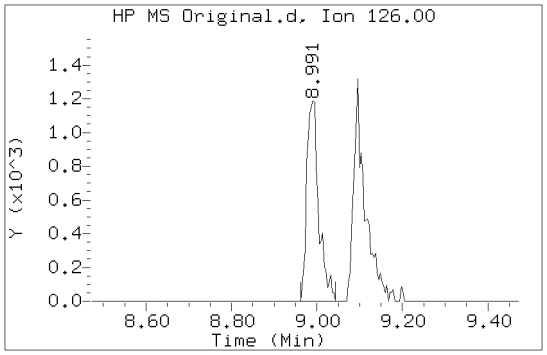
AFTER

MASS
91
AREA
5959
HEIGHT
4231
30-Mar-2023
12:41
linh
pham



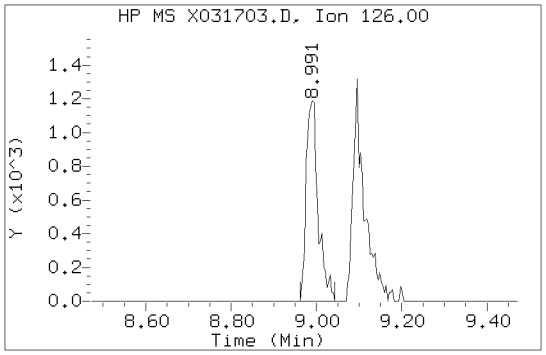
BEFORE

MASS
126
AREA
2327
HEIGHT
1189
30-Mar-2023
12:33
linh
pham



AFTER

MASS
126
AREA
2327
HEIGHT
1189
30-Mar-2023
12:41
linh
pham

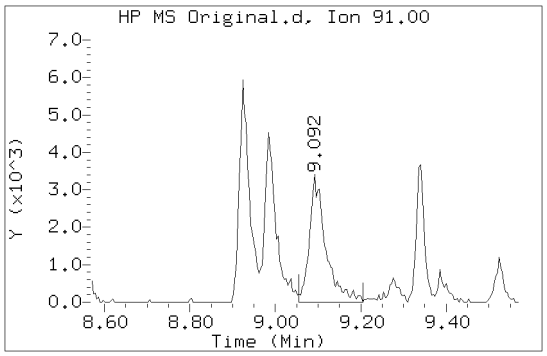


4-Chlorotoluene (106-43-4)

Reason Code:

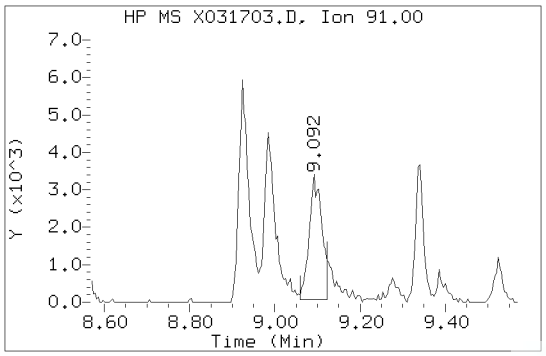
BEFORE

MASS
91
AREA
9062
HEIGHT
3419
30-Mar-2023
12:33
linh
pham



AFTER

MASS
91
AREA
6930
HEIGHT
3355
30-Mar-2023
12:41
linh
pham



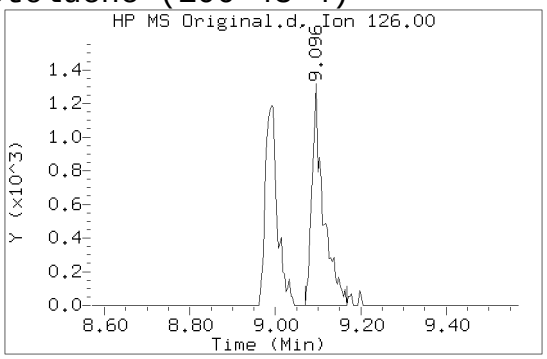
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

4-Chlorotoluene (106-43-4)

Reason Code:

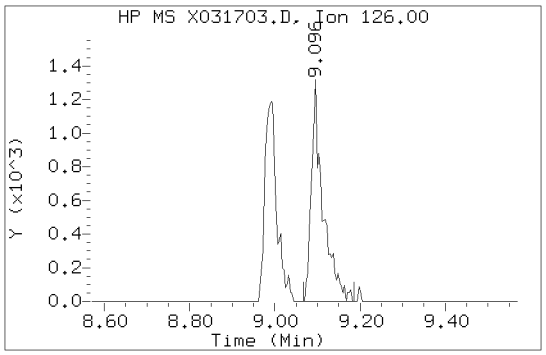
BEFORE

MASS
126
AREA
2441
HEIGHT
1318
30-Mar-2023
12:33
linh
pham



AFTER

MASS
126
AREA
2481
HEIGHT
1318
30-Mar-2023
12:41
linh
pham

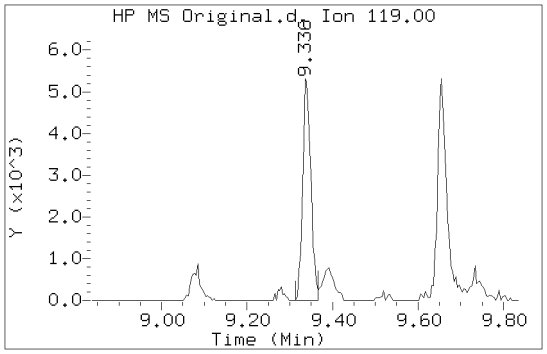


tert-Butylbenzene (98-06-6)

Reason Code:

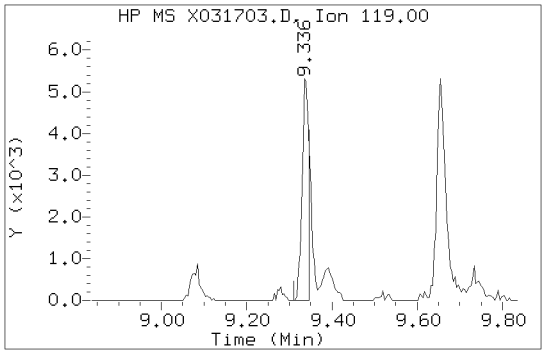
BEFORE

MASS
119
AREA
7255
HEIGHT
5313
30-Mar-2023
12:33
linh
pham



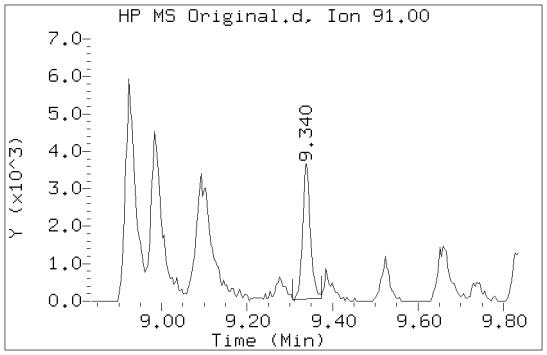
AFTER

MASS
119
AREA
5974
HEIGHT
5313
30-Mar-2023
12:41
linh
pham



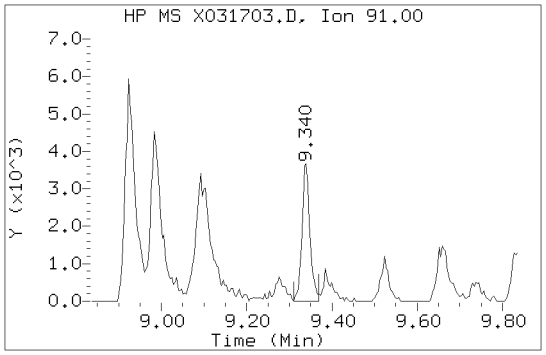
BEFORE

MASS
91
AREA
4684
HEIGHT
3604
30-Mar-2023
12:33
linh
pham



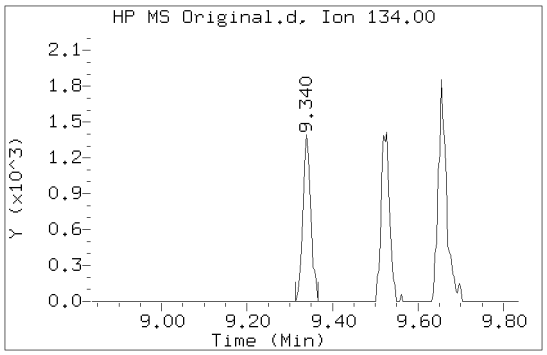
AFTER

MASS
91
AREA
4890
HEIGHT
3664
30-Mar-2023
12:41
linh
pham



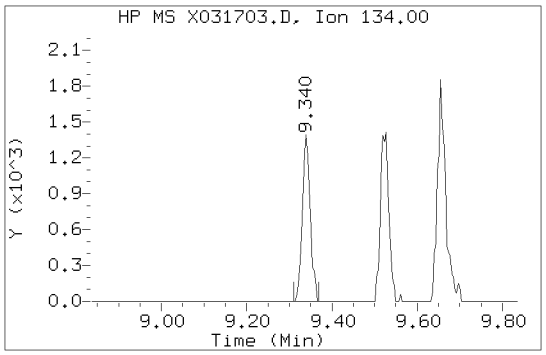
BEFORE

MASS
134
AREA
1839
HEIGHT
1394
30-Mar-2023
12:33
linh
pham



AFTER

MASS
134
AREA
1839
HEIGHT
1394
30-Mar-2023
12:41
linh
pham



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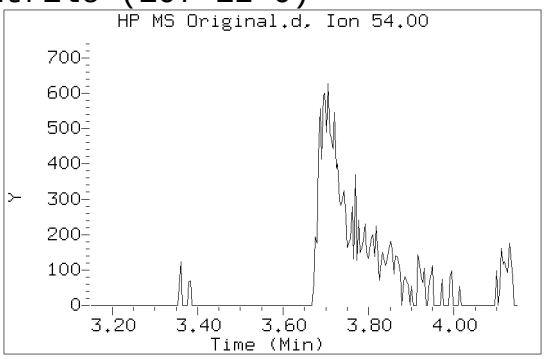
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Propionitrile (107-12-0)

Reason Code:

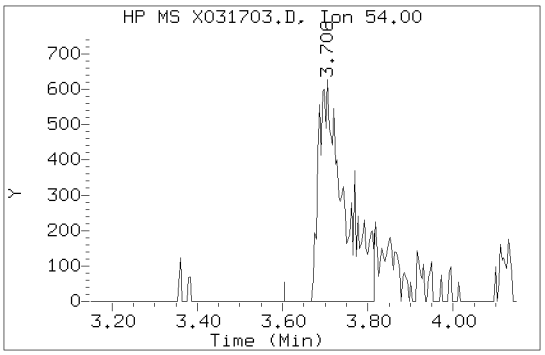
BEFORE

MASS
54
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



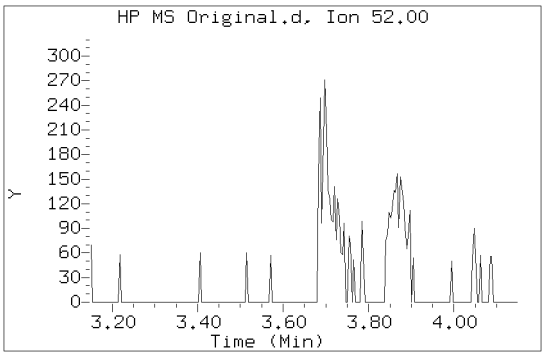
AFTER

MASS
54
AREA
2634
HEIGHT
627
30-Mar-2023
12:41
linh
pham



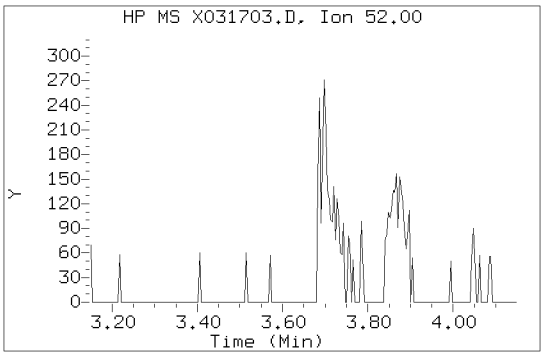
BEFORE

MASS
52
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



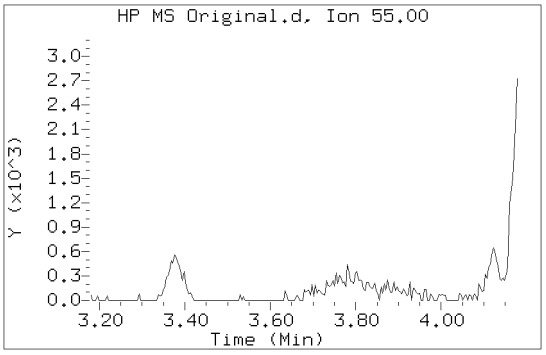
AFTER

MASS
52
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



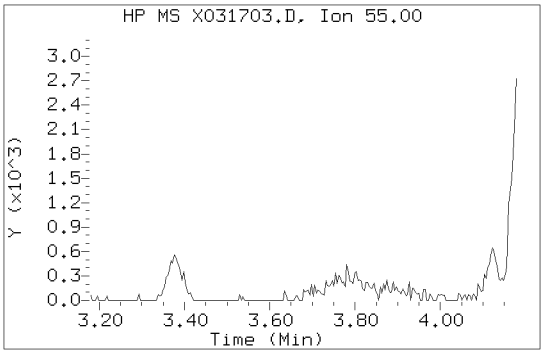
BEFORE

MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

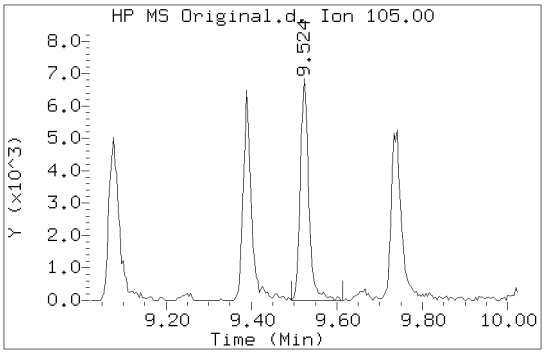


sec-Butylbenzene (135-98-8)

Reason Code:

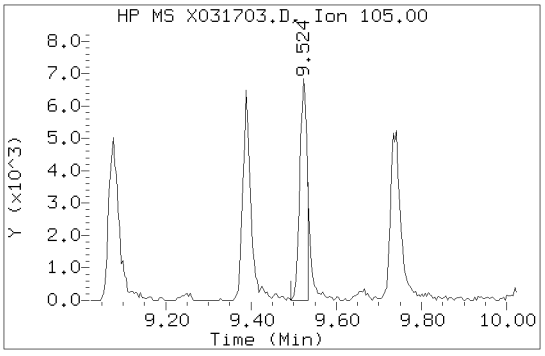
BEFORE

MASS
105
AREA
9751
HEIGHT
6842
30-Mar-2023
12:33
linh
pham



AFTER

MASS
105
AREA
8361
HEIGHT
6842
30-Mar-2023
12:41
linh
pham



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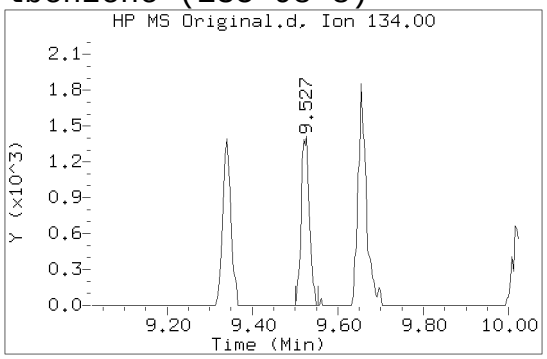
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

sec-Butylbenzene (135-98-8)

Reason Code:

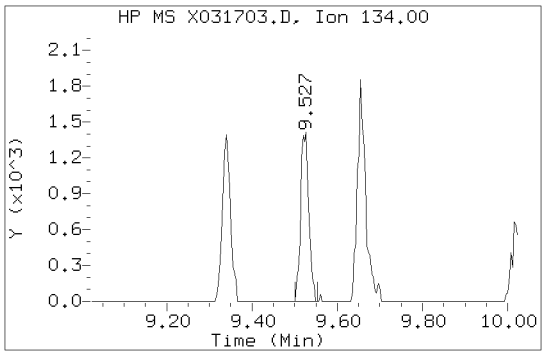
BEFORE

MASS
134
AREA
1938
HEIGHT
1416
30-Mar-2023
12:33
linh
pham



AFTER

MASS
134
AREA
1938
HEIGHT
1416
30-Mar-2023
12:41
linh
pham

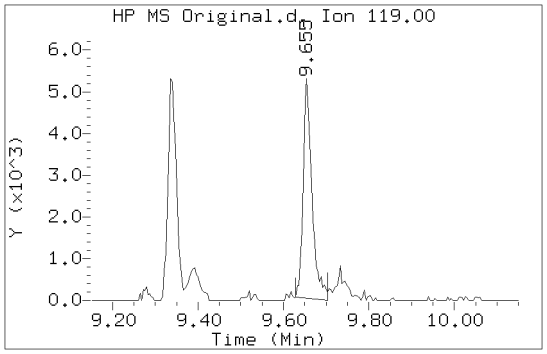


p-Isopropyltoluene (99-87-6)

Reason Code:

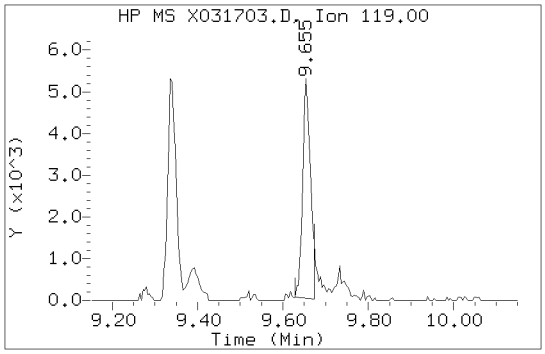
BEFORE

MASS
119
AREA
7728
HEIGHT
5256
30-Mar-2023
12:33
linh
pham



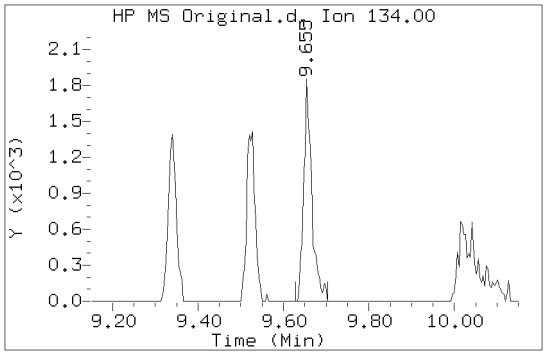
AFTER

MASS
119
AREA
6920
HEIGHT
5256
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
134
AREA
2501
HEIGHT
1854
30-Mar-2023
12:33
linh
pham



AFTER

MASS
134
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2501
HEIGHT
1854
30-Mar-2023
12:41
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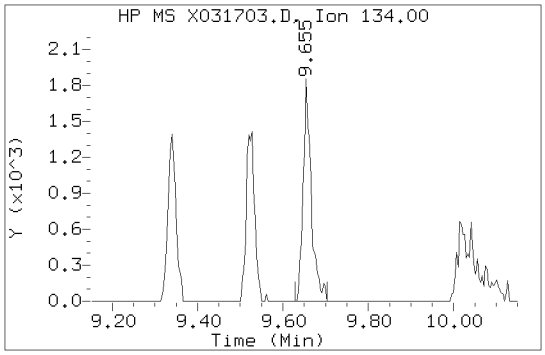
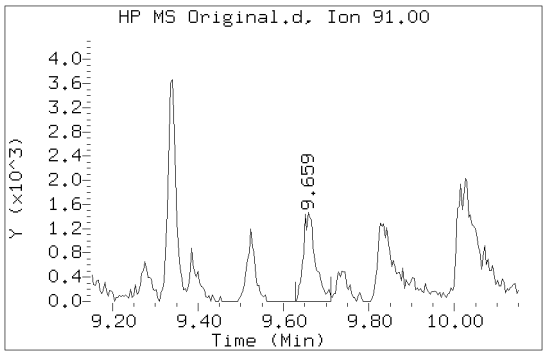


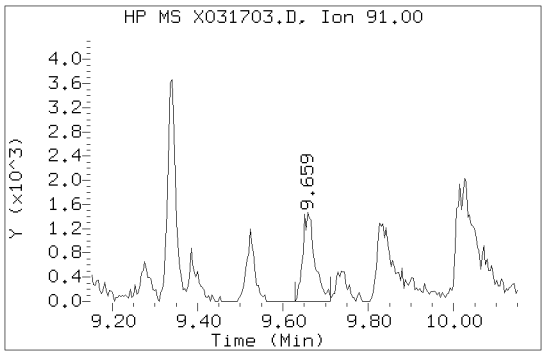
BEFORE

MASS
91
AREA
2967
HEIGHT
1473
30-Mar-2023
12:33
linh
pham



AFTER

MASS
91
AREA
2967
HEIGHT
1473
30-Mar-2023
12:41
linh
pham



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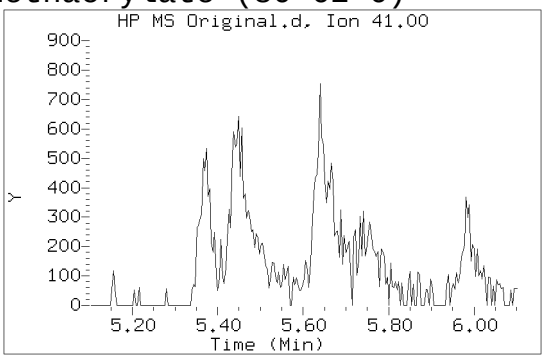
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

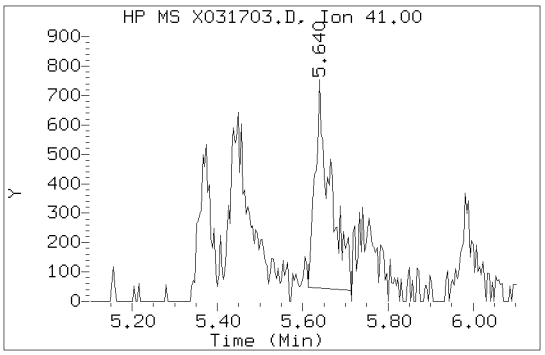
Methyl Methacrylate (80-62-6)

Reason Code:

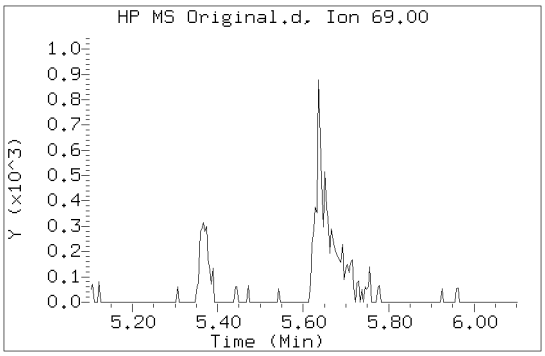
BEFORE
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



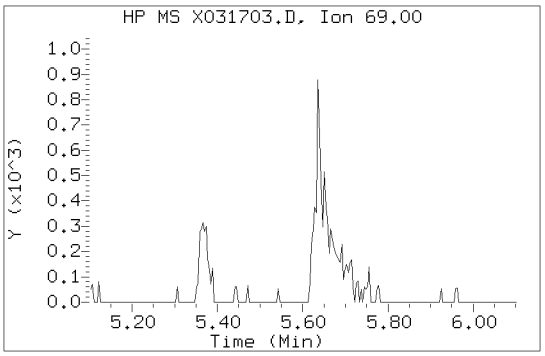
AFTER
MASS
41
AREA
1737
HEIGHT
709
30-Mar-2023
12:41
linh
pham



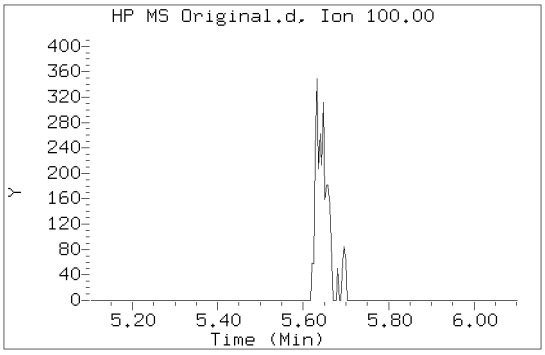
BEFORE
MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



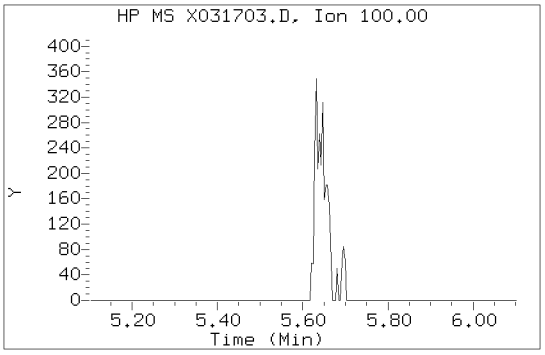
AFTER
MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
100
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



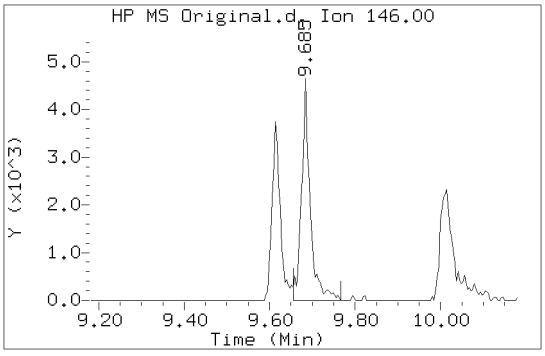
AFTER
MASS
100
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



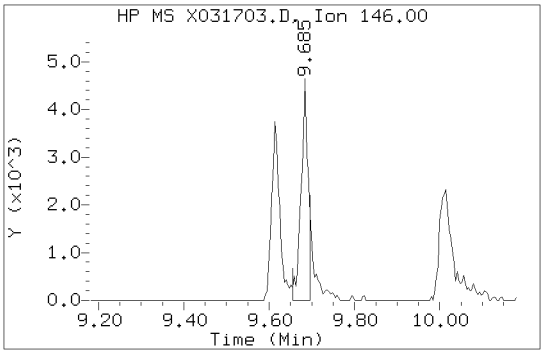
1,4-Dichlorobenzene (106-46-7)

Reason Code:

BEFORE
MASS
146
AREA
6662
HEIGHT
4645
30-Mar-2023
12:33
linh
pham



AFTER
MASS
146
AREA
5378
HEIGHT
4645
30-Mar-2023
12:41
linh
pham



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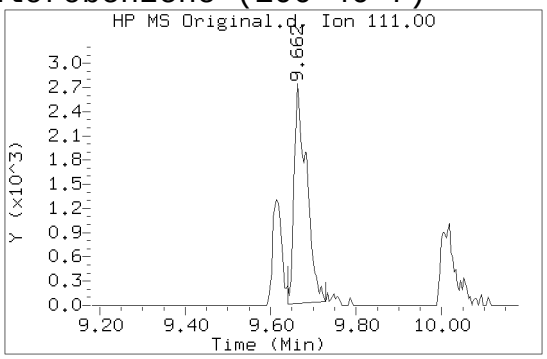
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,4-Dichlorobenzene (106-46-7)

Reason Code:

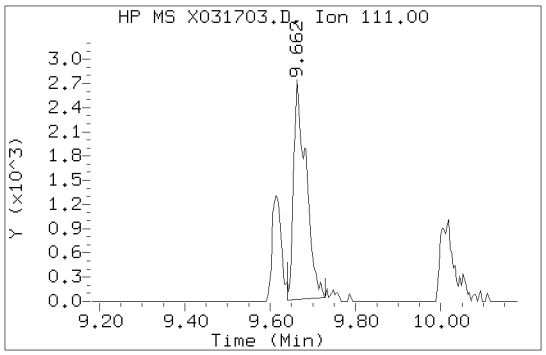
BEFORE

MASS
111
AREA
5585
HEIGHT
2720
30-Mar-2023
12:33
linh
pham



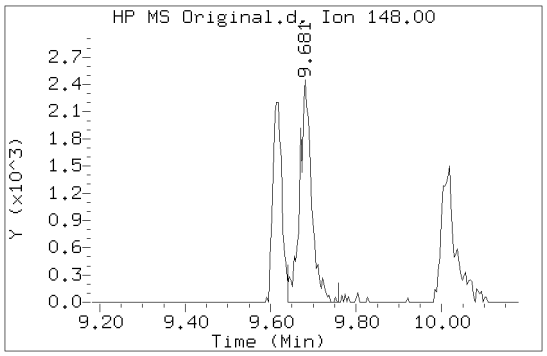
AFTER

MASS
111
AREA
5585
HEIGHT
2720
30-Mar-2023
12:41
linh
pham



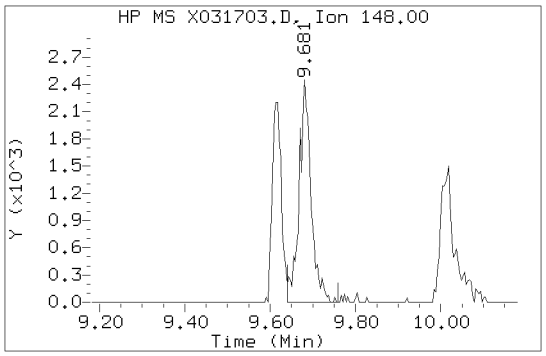
BEFORE

MASS
148
AREA
4886
HEIGHT
2449
30-Mar-2023
12:33
linh
pham



AFTER

MASS
148
AREA
4886
HEIGHT
2449
30-Mar-2023
12:41
linh
pham

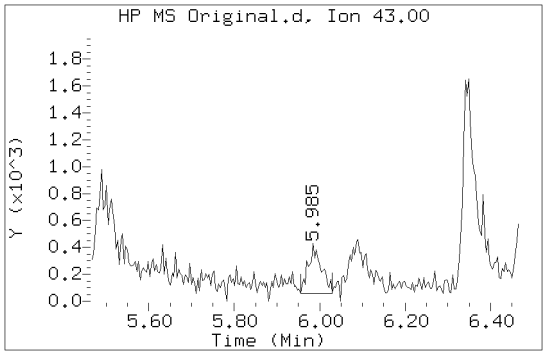


2-Nitropropane (79-46-9)

Reason Code:

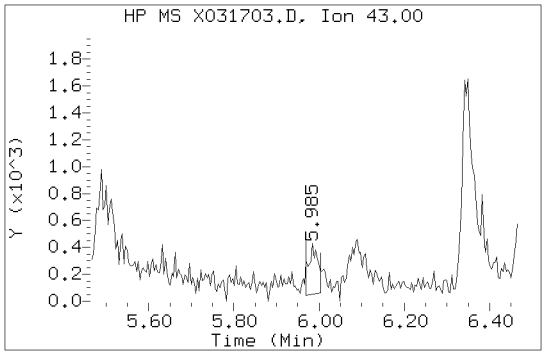
BEFORE

MASS
43
AREA
770
HEIGHT
369
30-Mar-2023
12:33
linh
pham



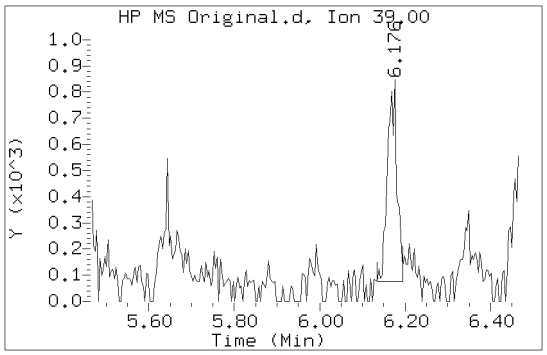
AFTER

MASS
43
AREA
573
HEIGHT
377
30-Mar-2023
12:41
linh
pham



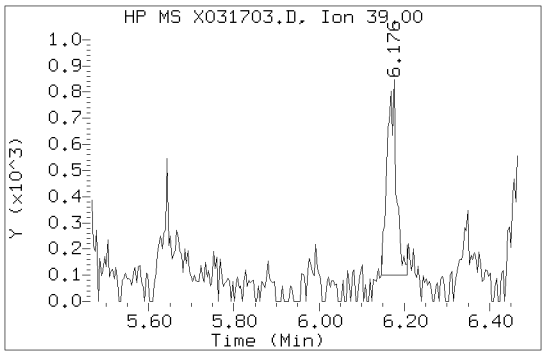
BEFORE

MASS
39
AREA
1169
HEIGHT
771
30-Mar-2023
12:33
linh
pham



AFTER

MASS
39
AREA
1112
HEIGHT
746
30-Mar-2023
12:41
linh
pham



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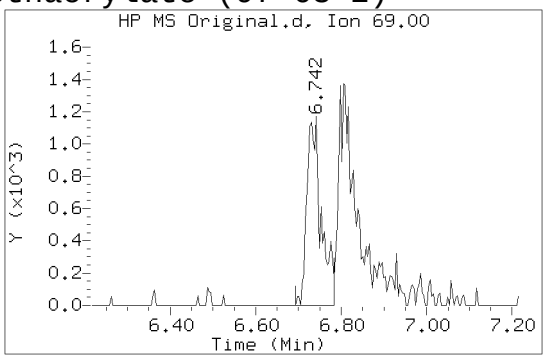
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Ethyl Methacrylate (97-63-2)

Reason Code:

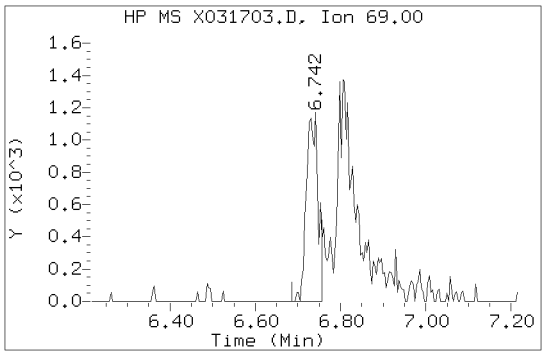
BEFORE

MASS
69
AREA
2745
HEIGHT
1173
30-Mar-2023
12:33
linh
pham



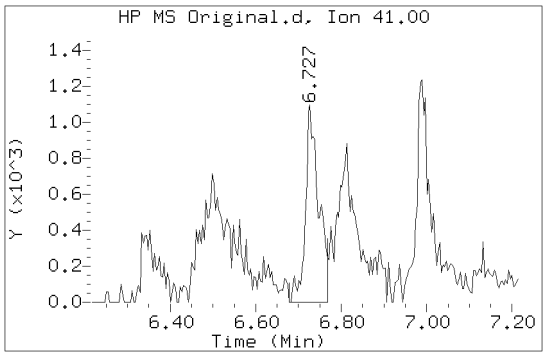
AFTER

MASS
69
AREA
2259
HEIGHT
1173
30-Mar-2023
12:41
linh
pham



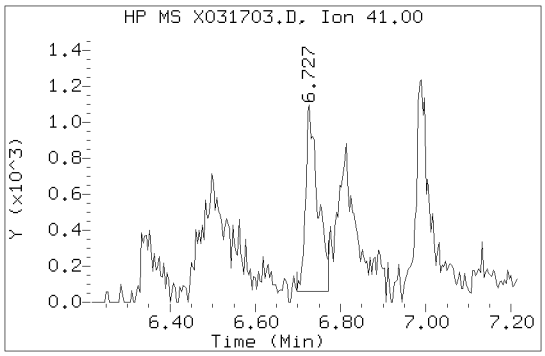
BEFORE

MASS
41
AREA
2398
HEIGHT
1097
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
2098
HEIGHT
1037
30-Mar-2023
12:41
linh
pham

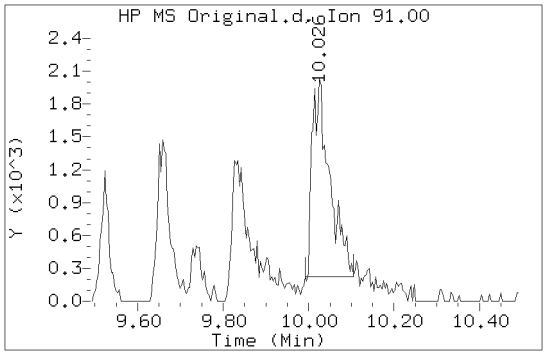


n-Butylbenzene (104-51-8)

Reason Code:

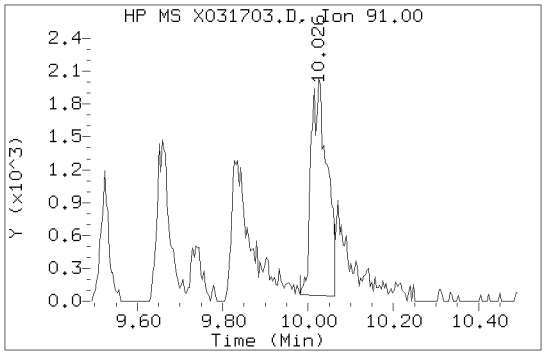
BEFORE

MASS
91
AREA
5090
HEIGHT
1805
30-Mar-2023
12:33
linh
pham



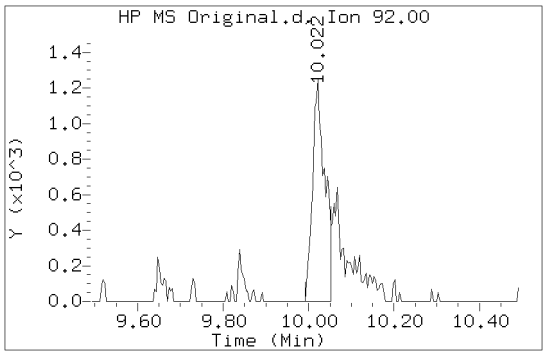
AFTER

MASS
91
AREA
5143
HEIGHT
1977
30-Mar-2023
12:41
linh
pham



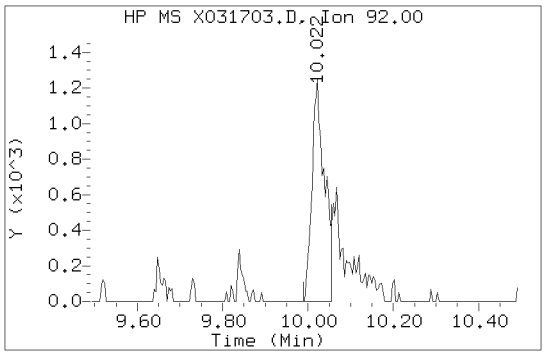
BEFORE

MASS
92
AREA
2483
HEIGHT
1247
30-Mar-2023
12:33
linh
pham



AFTER

MASS
92
AREA
2581
HEIGHT
1247
30-Mar-2023
12:41
linh
pham



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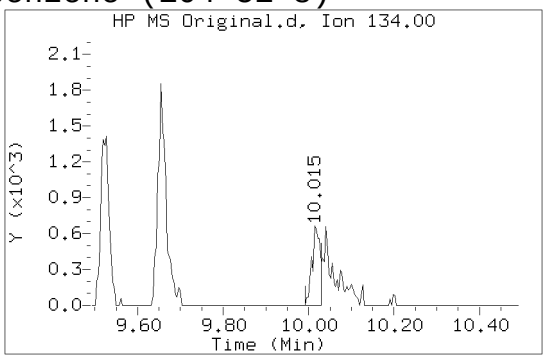
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

n-Butylbenzene (104-51-8)

Reason Code:

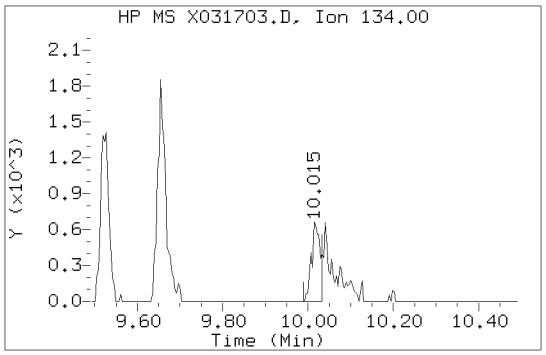
BEFORE

MASS
134
AREA
860
HEIGHT
663
30-Mar-2023
12:33
linh
pham



AFTER

MASS
134
AREA
950
HEIGHT
663
30-Mar-2023
12:41
linh
pham

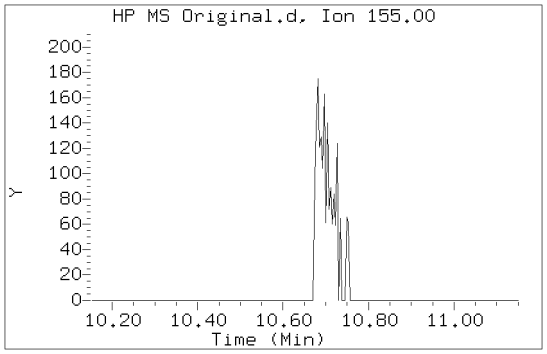


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

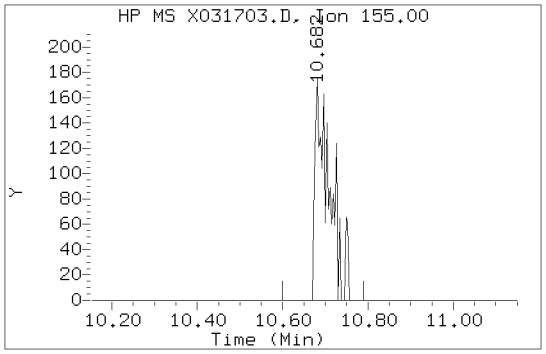
BEFORE

MASS
155
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



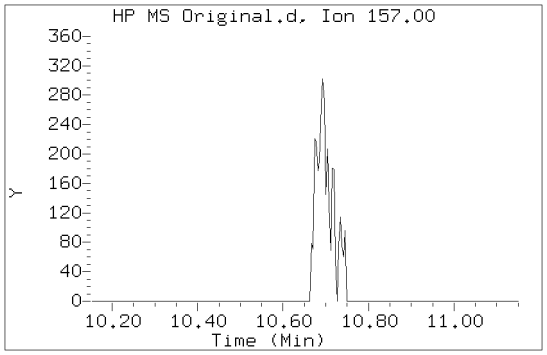
AFTER

MASS
155
AREA
405
HEIGHT
175
30-Mar-2023
12:41
linh
pham



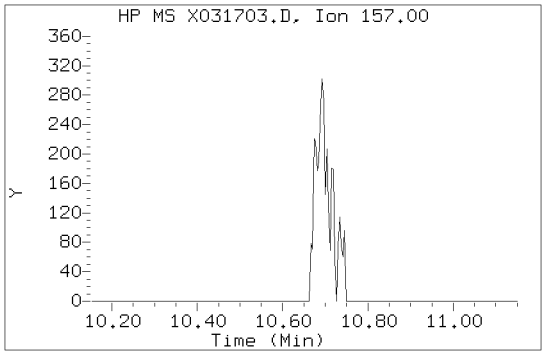
BEFORE

MASS
157
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



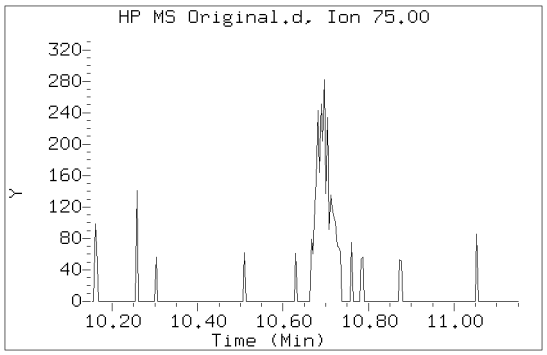
AFTER

MASS
157
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



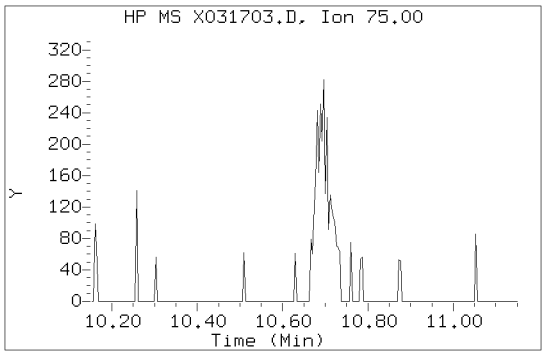
BEFORE

MASS
75
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
75
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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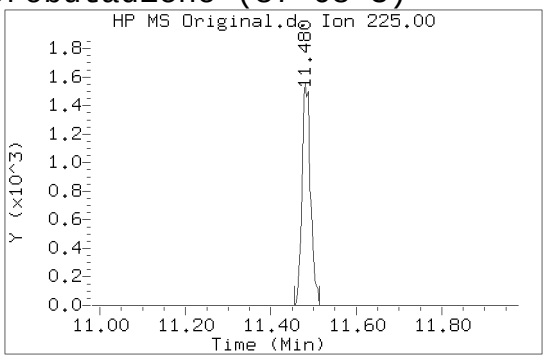
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Hexachlorobutadiene (87-68-3)

Reason Code:

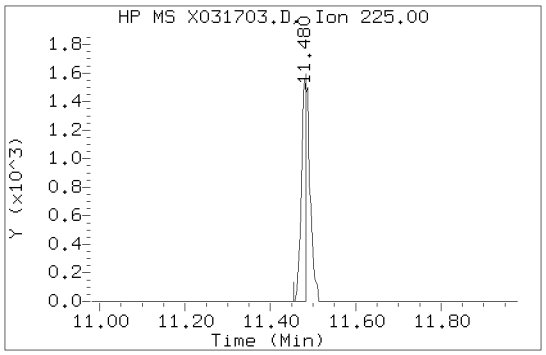
BEFORE

MASS
225
AREA
2232
HEIGHT
1553
30-Mar-2023
12:33
linh
pham



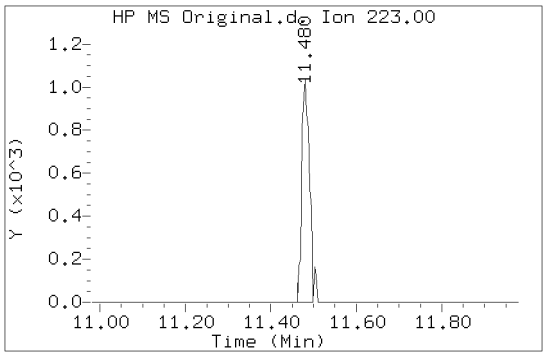
AFTER

MASS
225
AREA
1367
HEIGHT
1553
30-Mar-2023
12:41
linh
pham



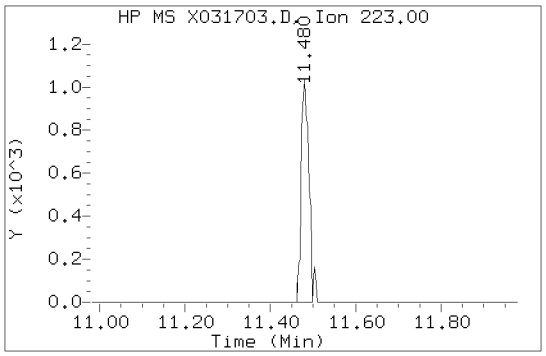
BEFORE

MASS
223
AREA
1310
HEIGHT
1034
30-Mar-2023
12:33
linh
pham



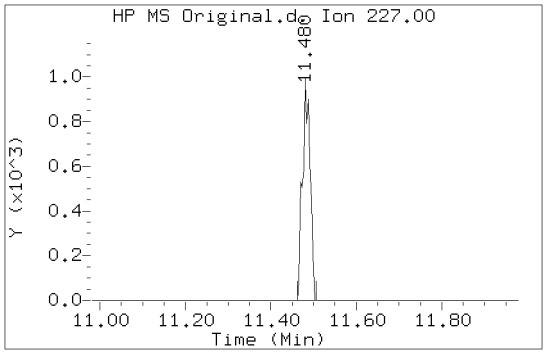
AFTER

MASS
223
AREA
1310
HEIGHT
1034
30-Mar-2023
12:41
linh
pham



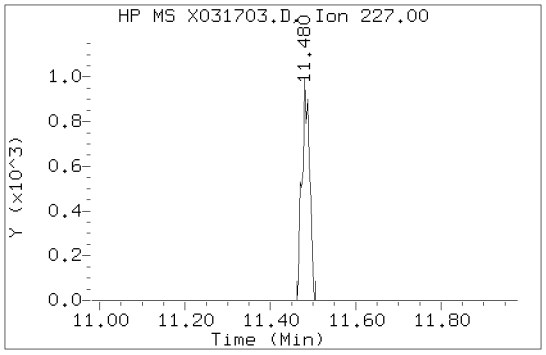
BEFORE

MASS
227
AREA
1275
HEIGHT
992
30-Mar-2023
12:33
linh
pham



AFTER

MASS
227
AREA
1275
HEIGHT
992
30-Mar-2023
12:41
linh
pham

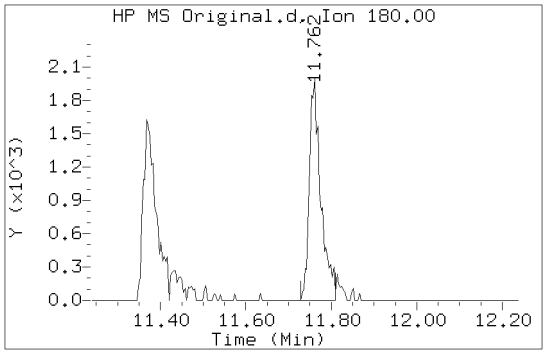


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

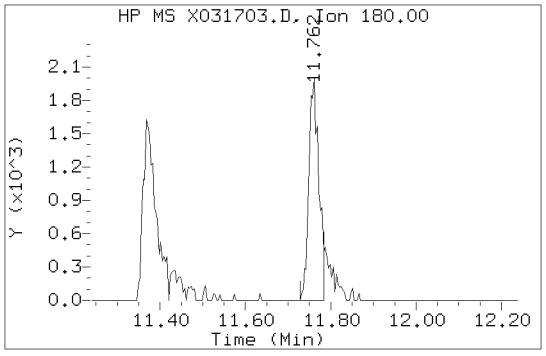
BEFORE

MASS
180
AREA
3743
HEIGHT
1996
30-Mar-2023
12:33
linh
pham



AFTER

MASS
180
AREA
3277
HEIGHT
1996
30-Mar-2023
12:41
linh
pham



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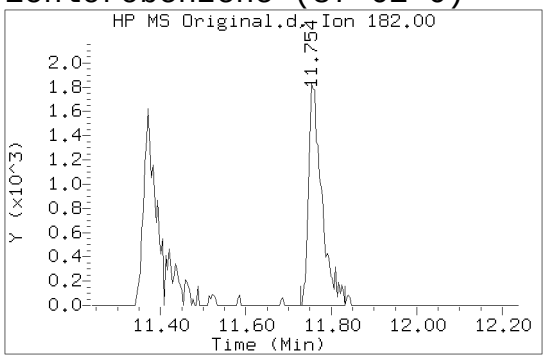
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

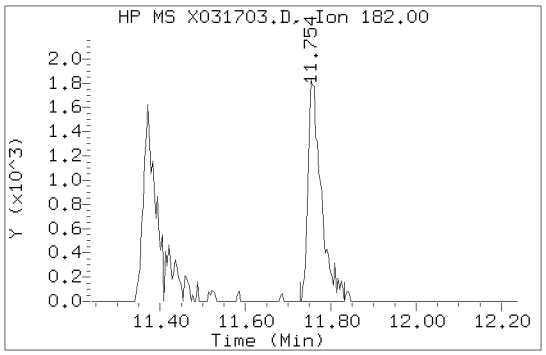
1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

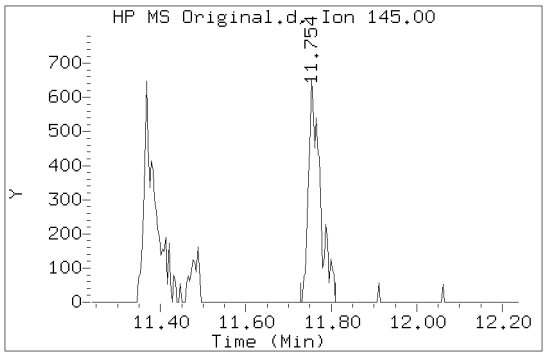
BEFORE
MASS
182
AREA
3920
HEIGHT
1829
30-Mar-2023
12:33
linh
pham



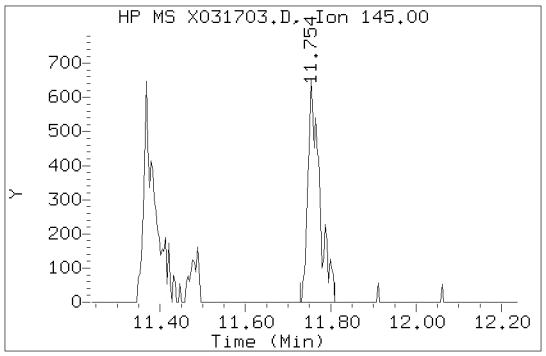
AFTER
MASS
182
AREA
3920
HEIGHT
1829
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
145
AREA
1233
HEIGHT
651
30-Mar-2023
12:33
linh
pham



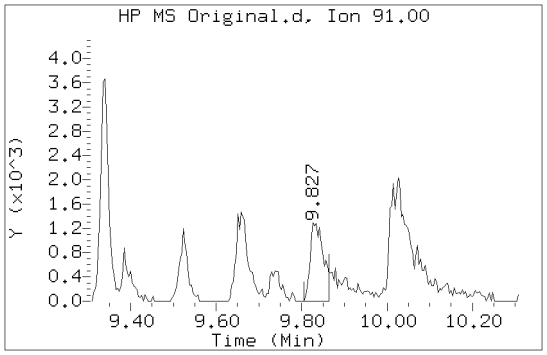
AFTER
MASS
145
AREA
1233
HEIGHT
651
30-Mar-2023
12:41
linh
pham



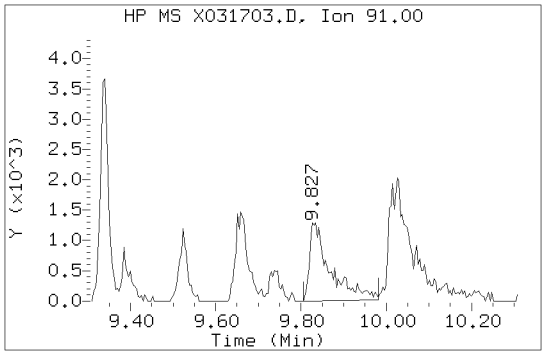
Benzyl Chloride (100-44-7)

Reason Code:

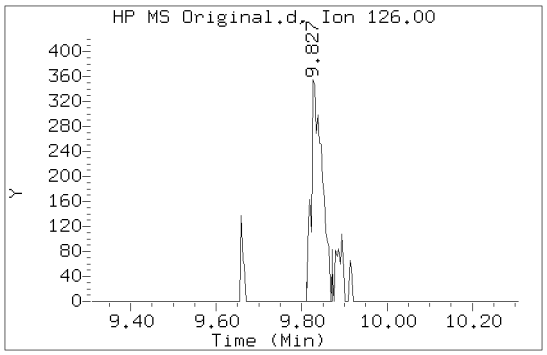
BEFORE
MASS
91
AREA
2784
HEIGHT
1288
30-Mar-2023
12:33
linh
pham



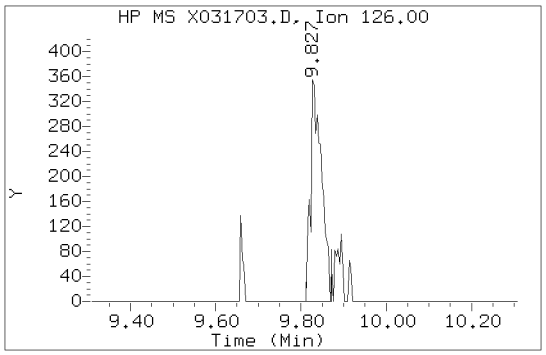
AFTER
MASS
91
AREA
4324
HEIGHT
1287
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
126
AREA
647
HEIGHT
355
30-Mar-2023
12:33
linh
pham



AFTER
MASS
126
AREA
647
HEIGHT
355
30-Mar-2023
12:41
linh
pham



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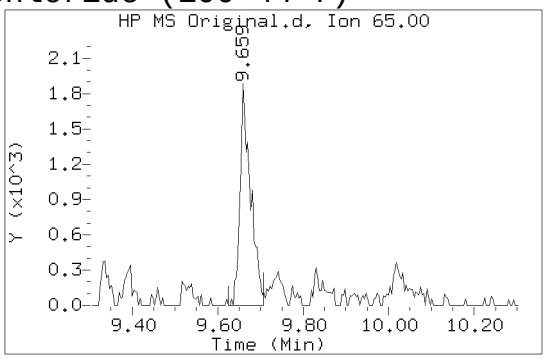
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Benzyl Chloride (100-44-7)

Reason Code:

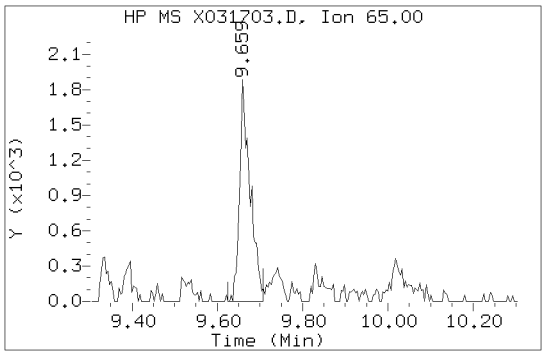
BEFORE

MASS
65
AREA
3227
HEIGHT
1885
30-Mar-2023
12:33
linh
pham



AFTER

MASS
65
AREA
3227
HEIGHT
1885
30-Mar-2023
12:41
linh
pham

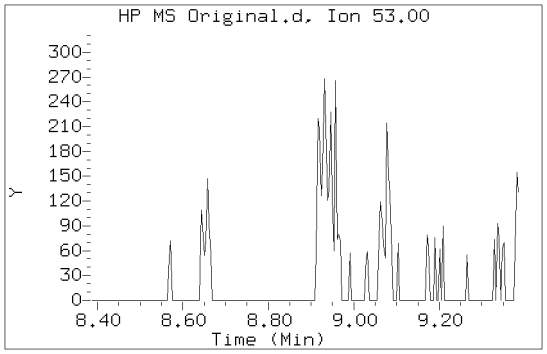


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

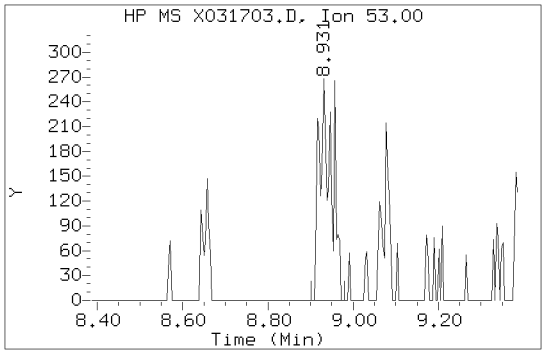
BEFORE

MASS
53
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



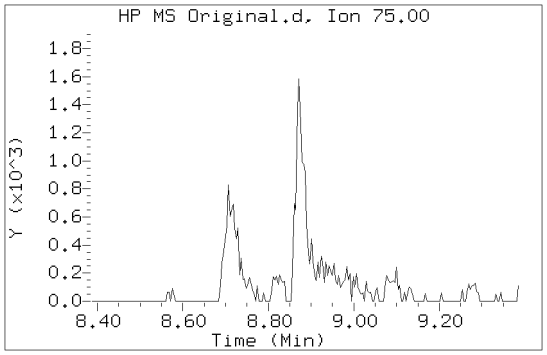
AFTER

MASS
53
AREA
541
HEIGHT
268
30-Mar-2023
12:41
linh
pham



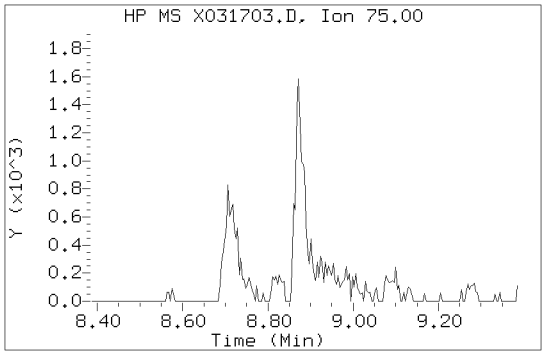
BEFORE

MASS
75
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
75
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

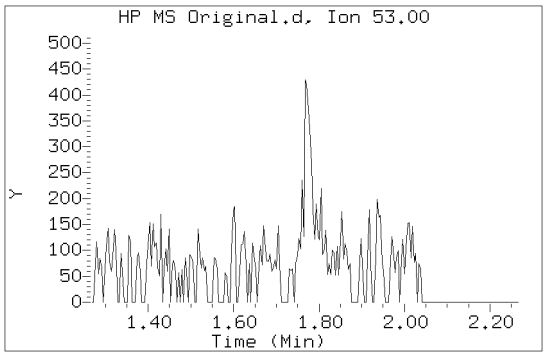


Chloroprene (126-99-8)

Reason Code:

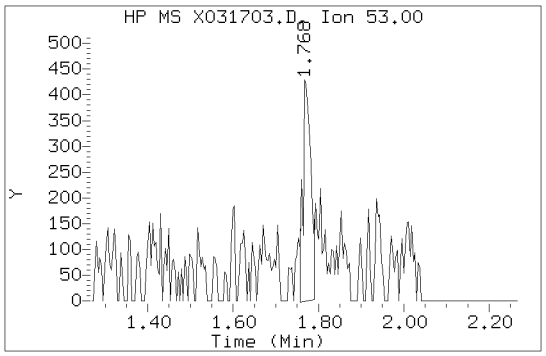
BEFORE

MASS
53
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
53
AREA
581
HEIGHT
429
30-Mar-2023
12:41
linh
pham



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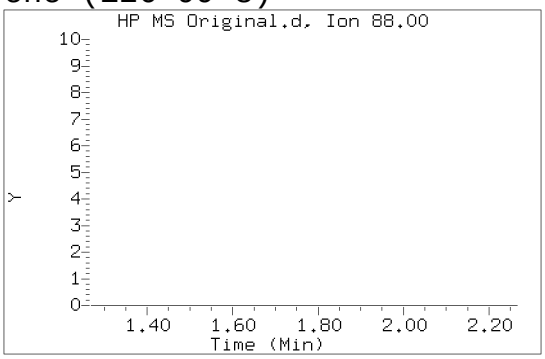
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Chloroprene (126-99-8)

Reason Code:

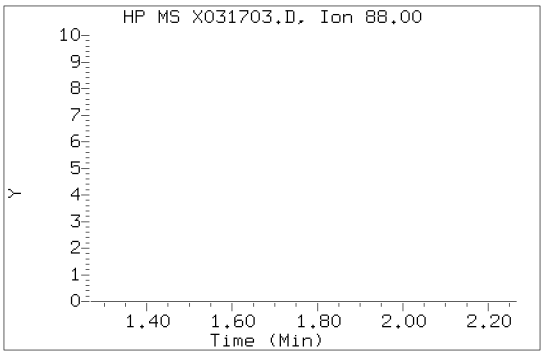
BEFORE

MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

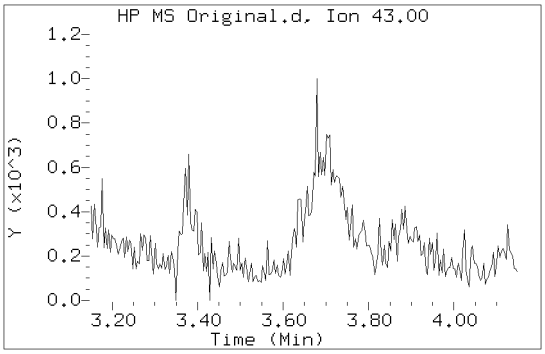


Ethyl Acetate (141-78-6)

Reason Code:

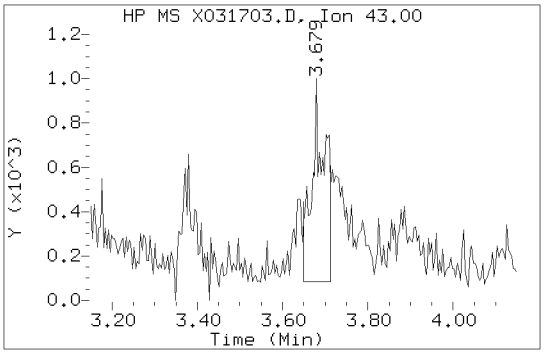
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



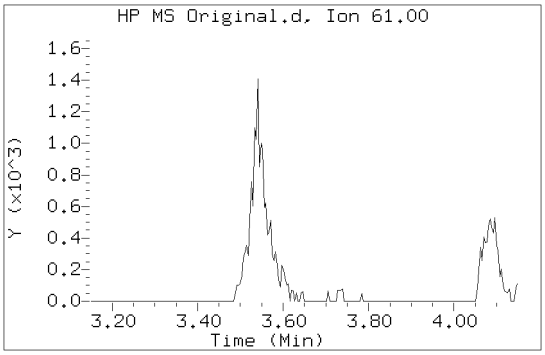
AFTER

MASS
43
AREA
1988
HEIGHT
916
30-Mar-2023
12:41
linh
pham



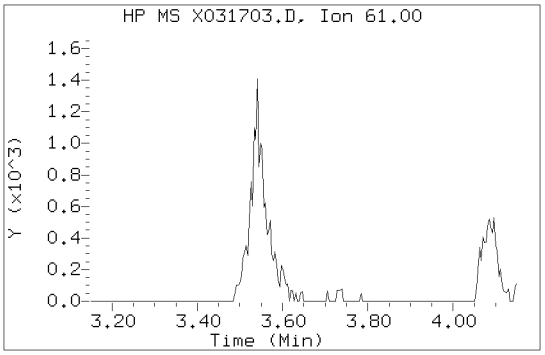
BEFORE

MASS
61
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



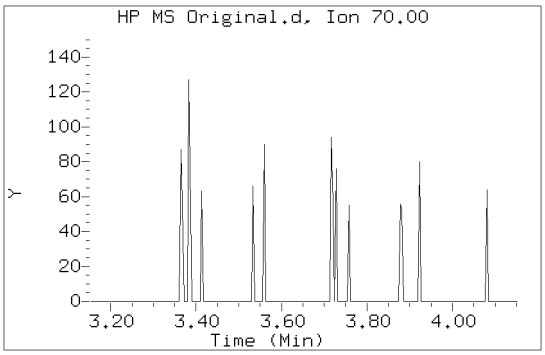
AFTER

MASS
61
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



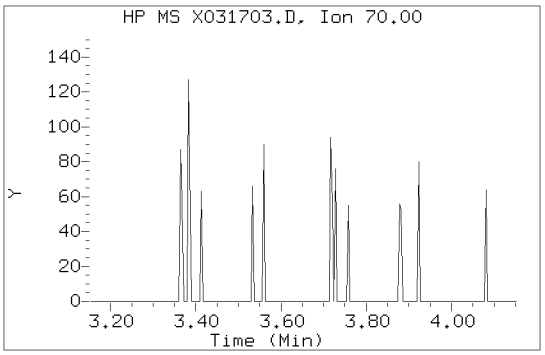
BEFORE

MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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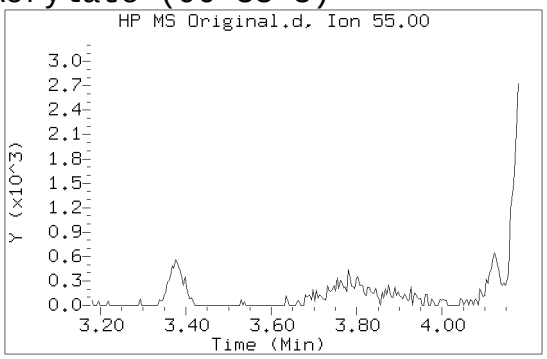
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

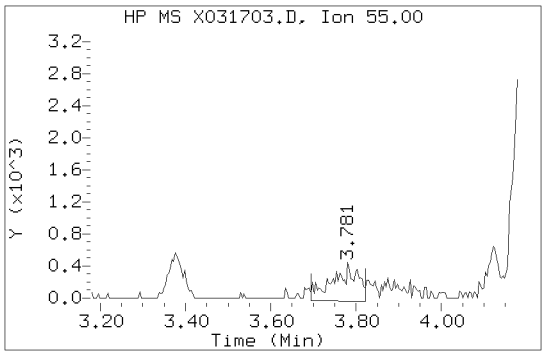
Methyl Acrylate (96-33-3)

Reason Code:

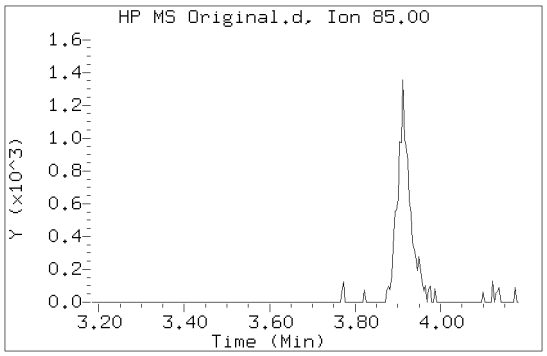
BEFORE
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



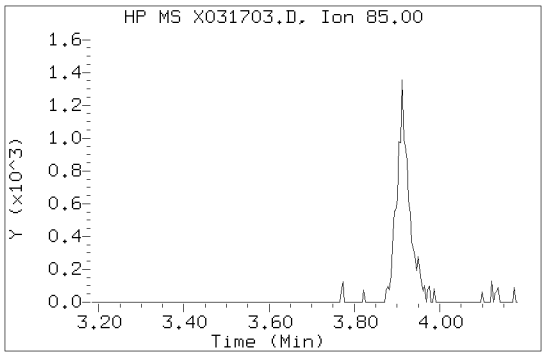
AFTER
MASS
55
AREA
1927
HEIGHT
487
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



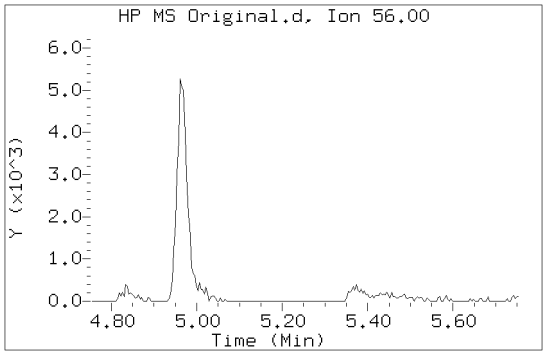
AFTER
MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



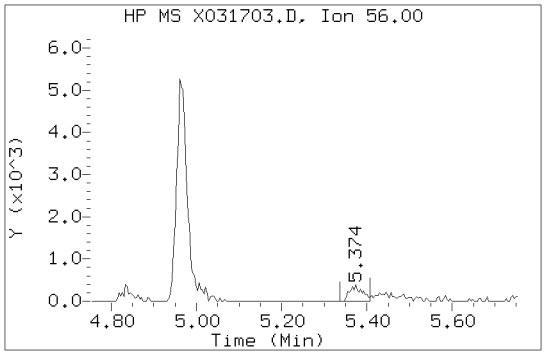
n-Butanol (71-36-3)

Reason Code:

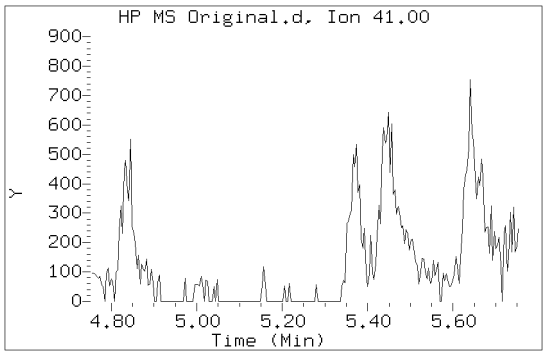
BEFORE
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



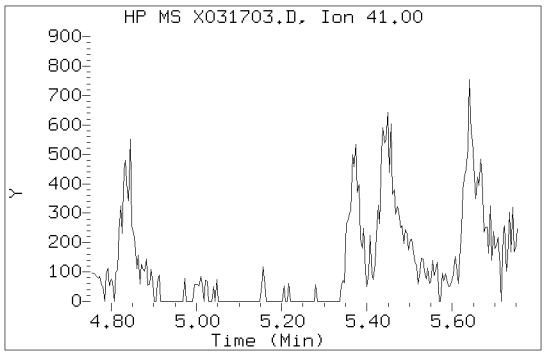
AFTER
MASS
56
AREA
783
HEIGHT
391
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



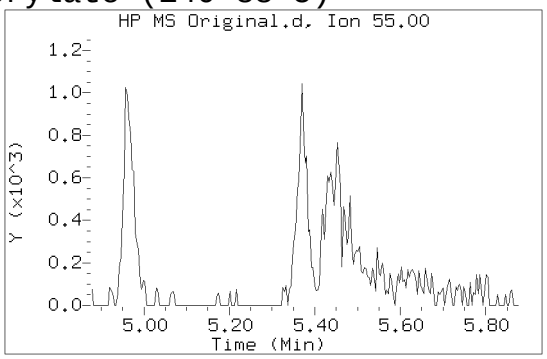
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Ethyl Acrylate (140-88-5)

Reason Code:

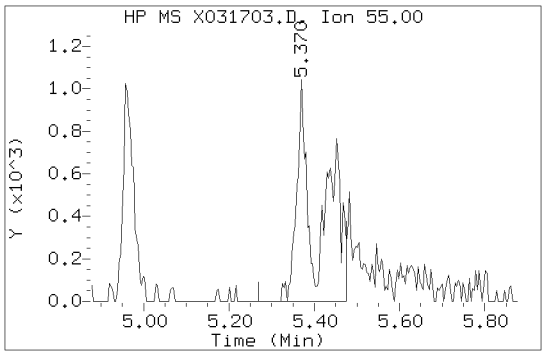
BEFORE

MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



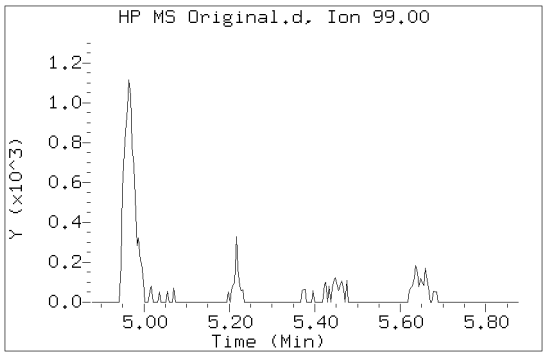
AFTER

MASS
55
AREA
3644
HEIGHT
1043
30-Mar-2023
12:41
linh
pham



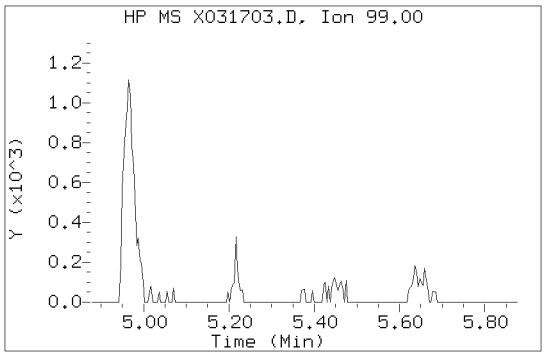
BEFORE

MASS
99
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
99
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

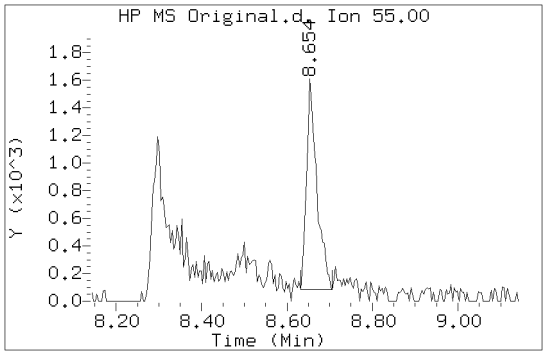


Cyclohexanone (108-94-1)

Reason Code:

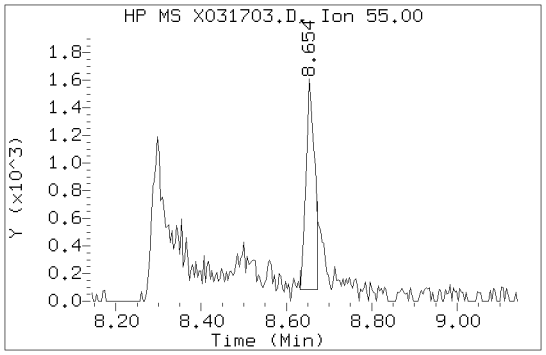
BEFORE

MASS
55
AREA
2583
HEIGHT
1526
30-Mar-2023
12:33
linh
pham



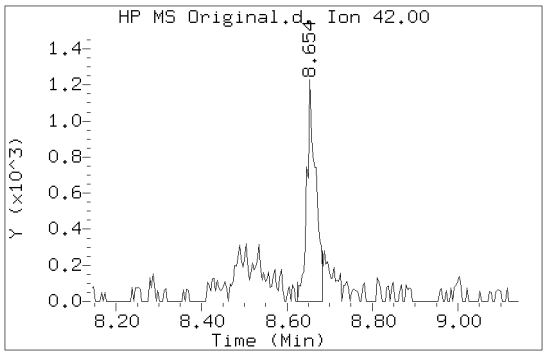
AFTER

MASS
55
AREA
2126
HEIGHT
1526
30-Mar-2023
12:41
linh
pham



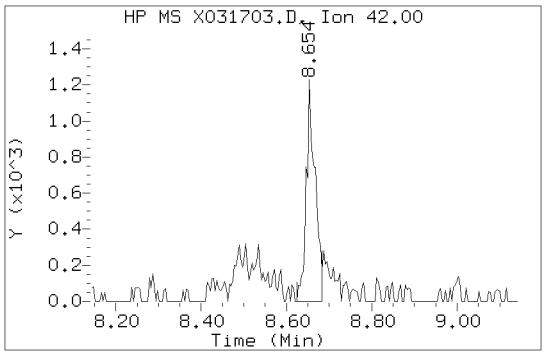
BEFORE

MASS
42
AREA
1788
HEIGHT
1229
30-Mar-2023
12:33
linh
pham



AFTER

MASS
42
AREA
1788
HEIGHT
1229
30-Mar-2023
12:41
linh
pham



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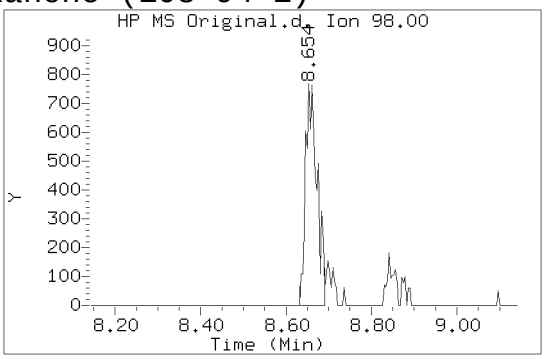
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Cyclohexanone (108-94-1)

Reason Code:

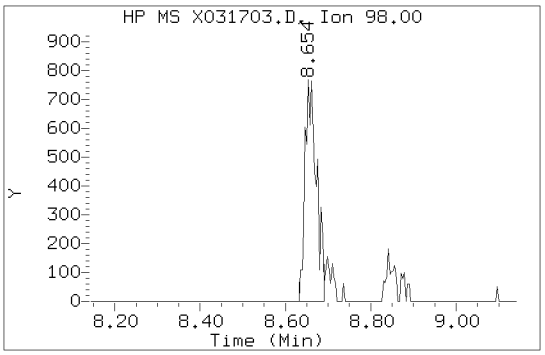
BEFORE

MASS
98
AREA
1442
HEIGHT
769
30-Mar-2023
12:33
linh
pham



AFTER

MASS
98
AREA
1442
HEIGHT
769
30-Mar-2023
12:41
linh
pham

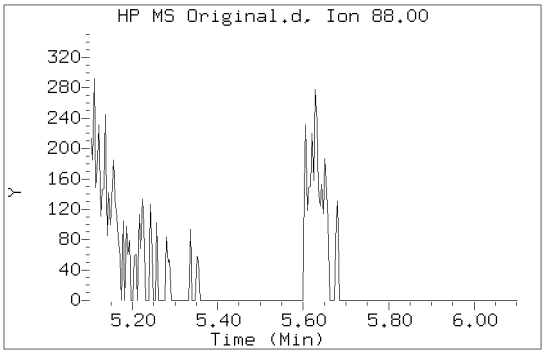


1,4-Dioxane ()

Reason Code:

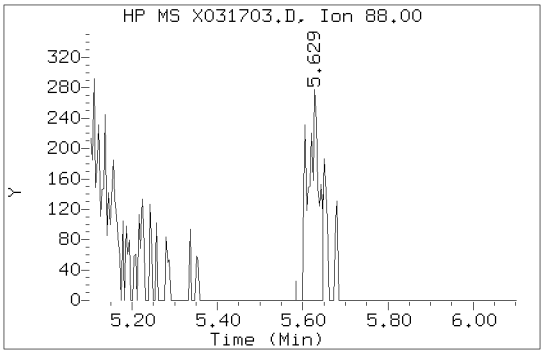
BEFORE

MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



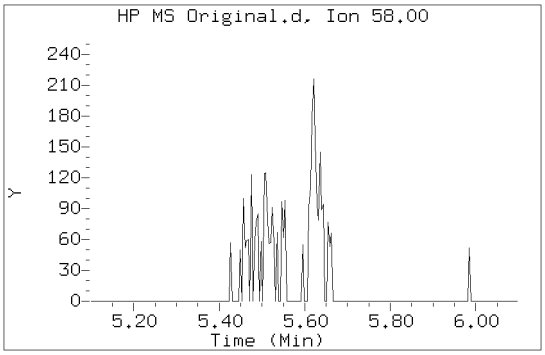
AFTER

MASS
88
AREA
500
HEIGHT
278
30-Mar-2023
12:41
linh
pham



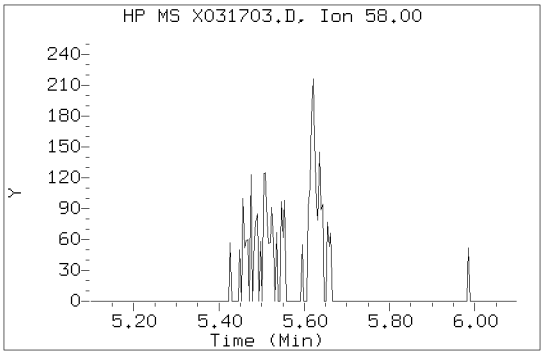
BEFORE

MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

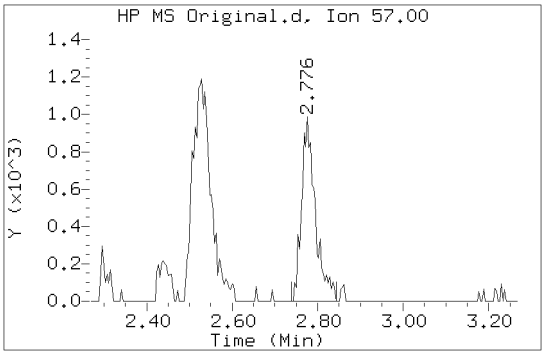


n-Hexane (110-54-3)

Reason Code:

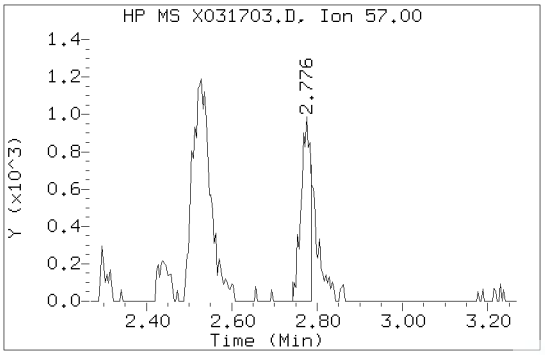
BEFORE

MASS
57
AREA
2232
HEIGHT
989
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
1555
HEIGHT
989
30-Mar-2023
12:41
linh
pham



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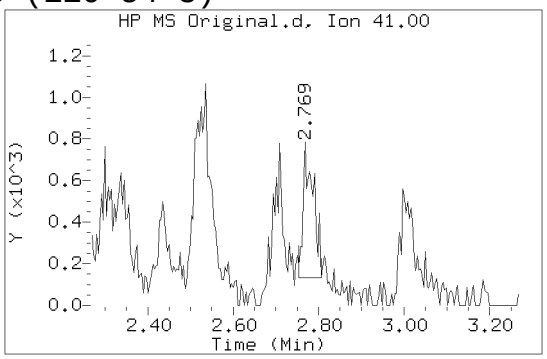
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

n-Hexane (110-54-3)

Reason Code:

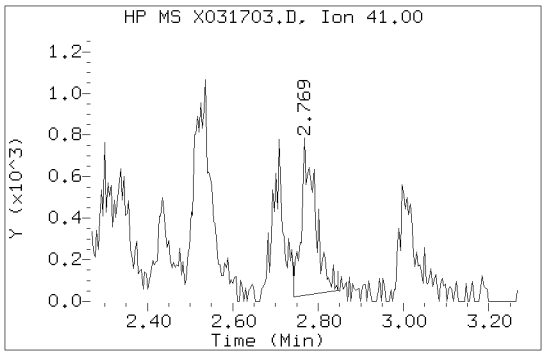
BEFORE

MASS
41
AREA
1101
HEIGHT
653
30-Mar-2023
12:33
linh
pham



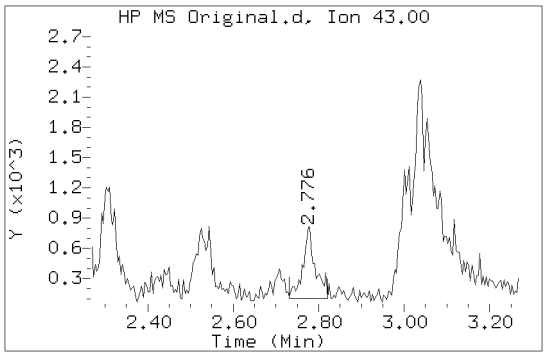
AFTER

MASS
41
AREA
1729
HEIGHT
755
30-Mar-2023
12:41
linh
pham



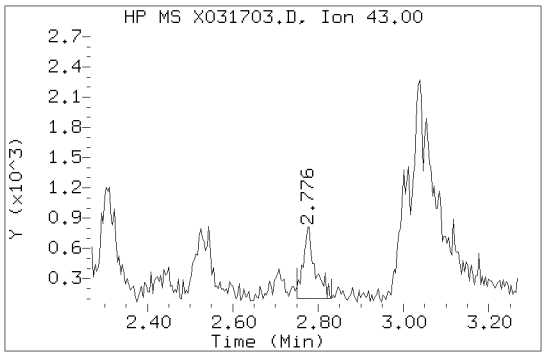
BEFORE

MASS
43
AREA
1428
HEIGHT
708
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
AREA
1396
HEIGHT
712
30-Mar-2023
12:41
linh
pham

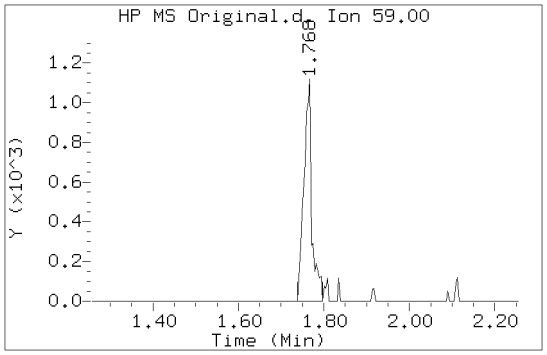


Diethyl ether (60-29-7)

Reason Code:

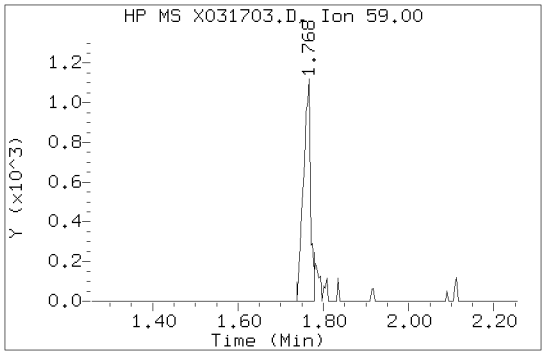
BEFORE

MASS
59
AREA
1465
HEIGHT
1120
30-Mar-2023
12:33
linh
pham



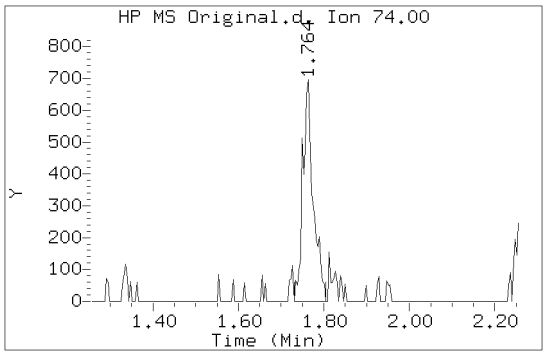
AFTER

MASS
59
AREA
1334
HEIGHT
1120
30-Mar-2023
12:41
linh
pham



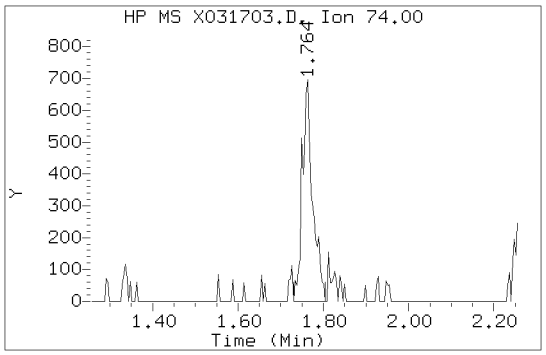
BEFORE

MASS
74
AREA
1194
HEIGHT
696
30-Mar-2023
12:33
linh
pham



AFTER

MASS
74
AREA
1194
HEIGHT
696
30-Mar-2023
12:41
linh
pham



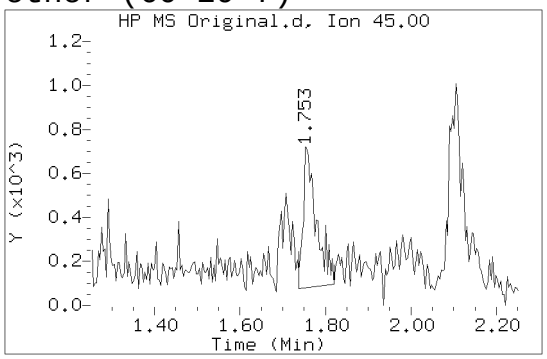
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Diethyl ether (60-29-7)

Reason Code:

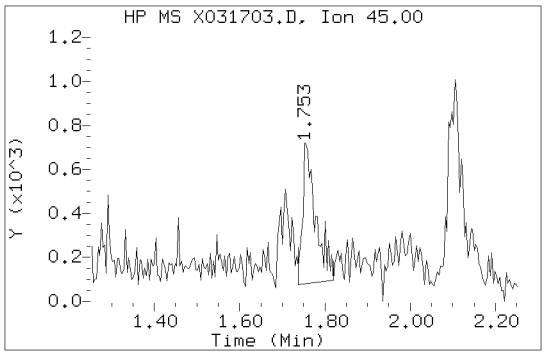
BEFORE

MASS
45
AREA
1387
HEIGHT
641
30-Mar-2023
12:33
linh
pham



AFTER

MASS
45
AREA
1387
HEIGHT
641
30-Mar-2023
12:41
linh
pham

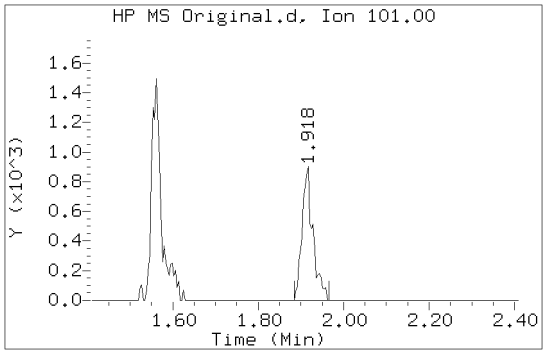


Freon TF (76-13-1)

Reason Code:

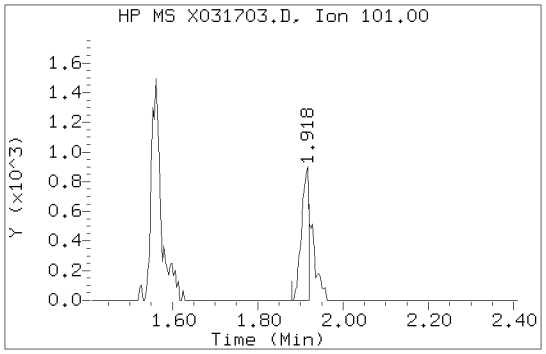
BEFORE

MASS
101
AREA
1607
HEIGHT
902
30-Mar-2023
12:33
linh
pham



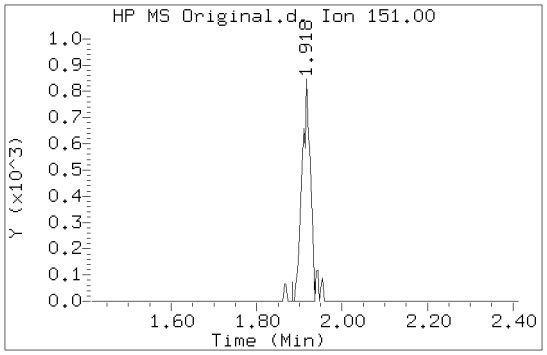
AFTER

MASS
101
AREA
1102
HEIGHT
902
30-Mar-2023
12:41
linh
pham



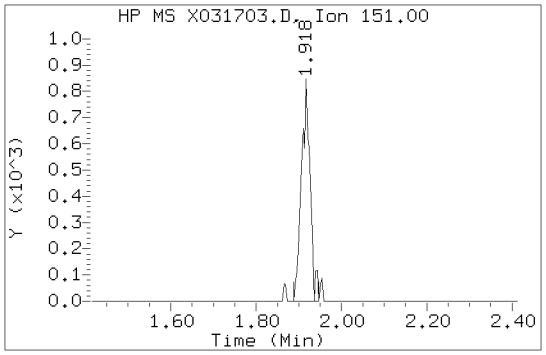
BEFORE

MASS
151
AREA
1172
HEIGHT
847
30-Mar-2023
12:33
linh
pham



AFTER

MASS
151
AREA
1224
HEIGHT
847
30-Mar-2023
12:41
linh
pham

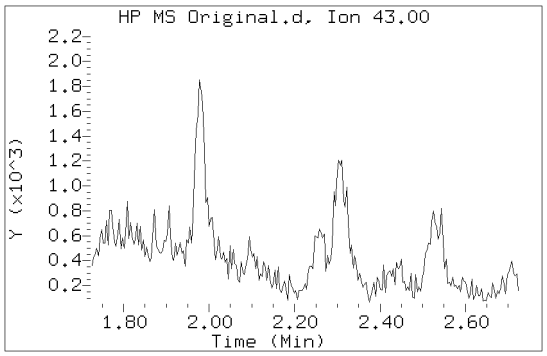


Methyl acetate (79-20-9)

Reason Code:

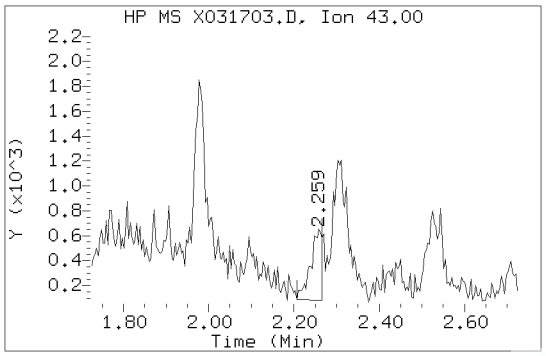
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
AREA
1057
HEIGHT
572
30-Mar-2023
12:41
linh
pham



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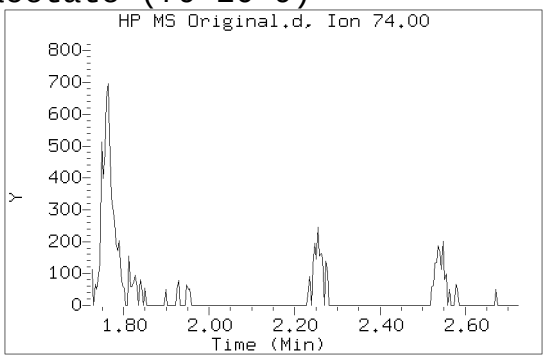
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Methyl acetate (79-20-9)

Reason Code:

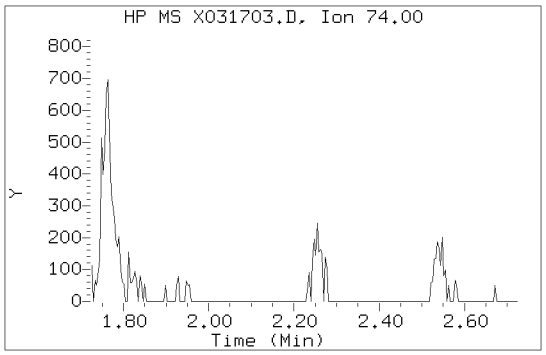
BEFORE

MASS
74
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
74
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

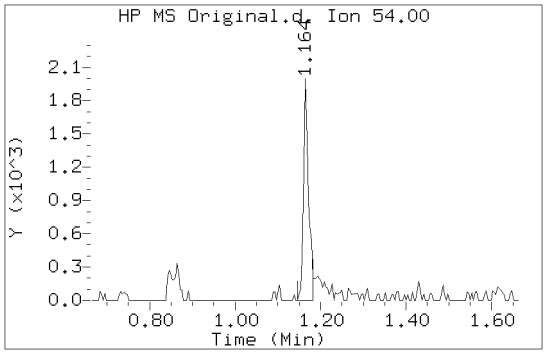


1,3-Butadiene (106-99-0)

Reason Code:

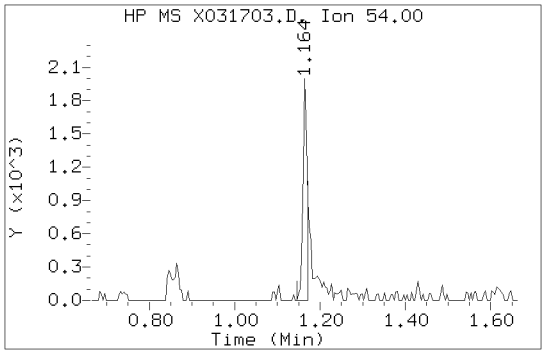
BEFORE

MASS
54
AREA
1678
HEIGHT
1998
30-Mar-2023
12:33
linh
pham



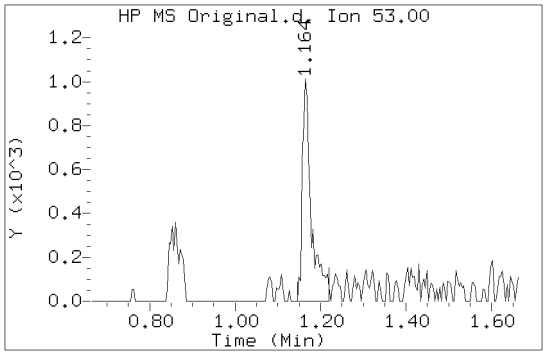
AFTER

MASS
54
AREA
1361
HEIGHT
1998
30-Mar-2023
12:41
linh
pham



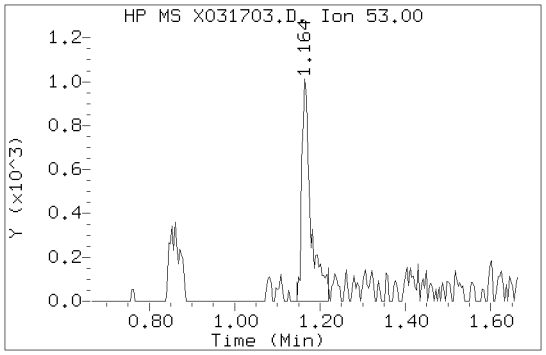
BEFORE

MASS
53
AREA
1521
HEIGHT
1013
30-Mar-2023
12:33
linh
pham



AFTER

MASS
53
AREA
1521
HEIGHT
1013
30-Mar-2023
12:41
linh
pham

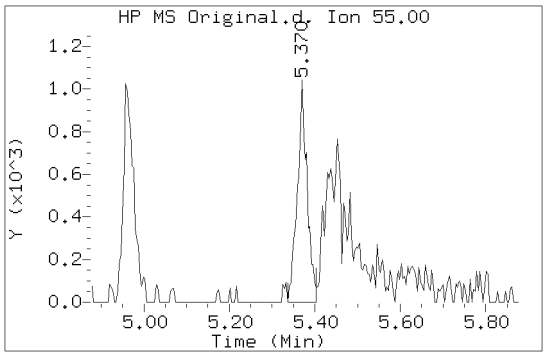


Methylcyclohexane (108-87-2)

Reason Code:

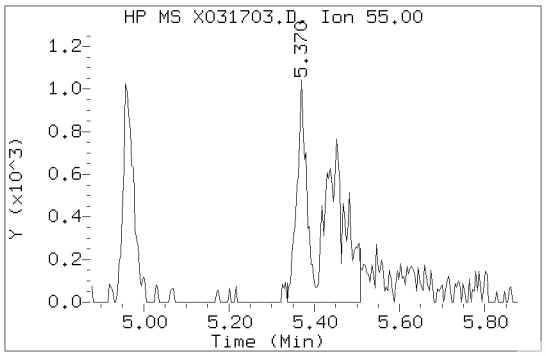
BEFORE

MASS
55
AREA
1674
HEIGHT
1043
30-Mar-2023
12:33
linh
pham



AFTER

MASS
55
AREA
4159
HEIGHT
1043
30-Mar-2023
12:41
linh
pham



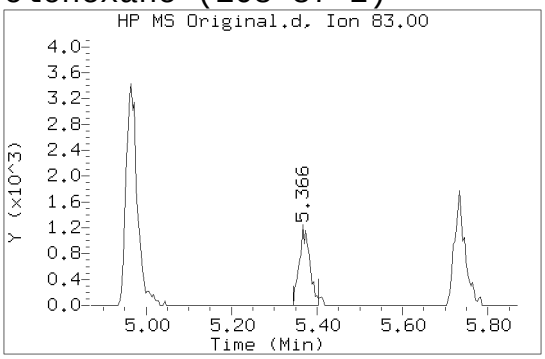
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Methylcyclohexane (108-87-2)

Reason Code:

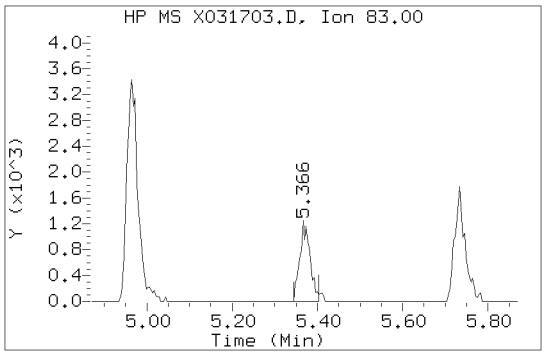
BEFORE

MASS
83
AREA
2121
HEIGHT
1250
30-Mar-2023
12:33
linh
pham



AFTER

MASS
83
AREA
2121
HEIGHT
1250
30-Mar-2023
12:41
linh
pham

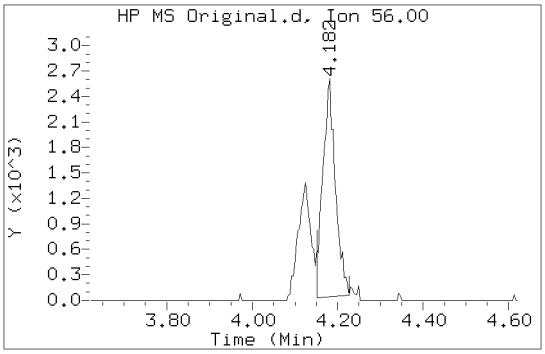


Cyclohexane (110-82-7)

Reason Code:

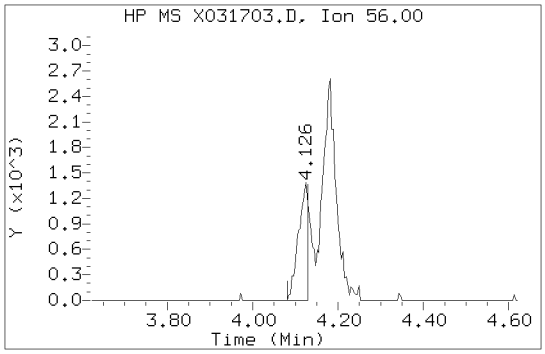
BEFORE

MASS
56
AREA
5280
HEIGHT
2569
30-Mar-2023
12:33
linh
pham



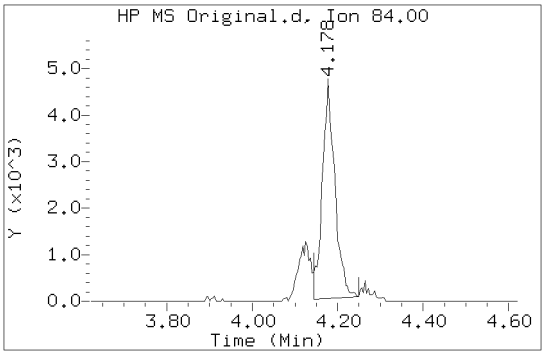
AFTER

MASS
56
AREA
2139
HEIGHT
1387
30-Mar-2023
12:41
linh
pham



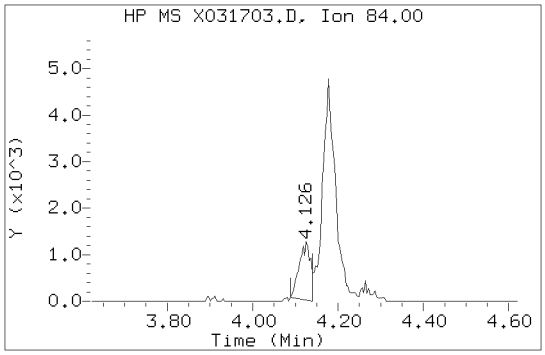
BEFORE

MASS
84
AREA
9592
HEIGHT
4720
30-Mar-2023
12:33
linh
pham



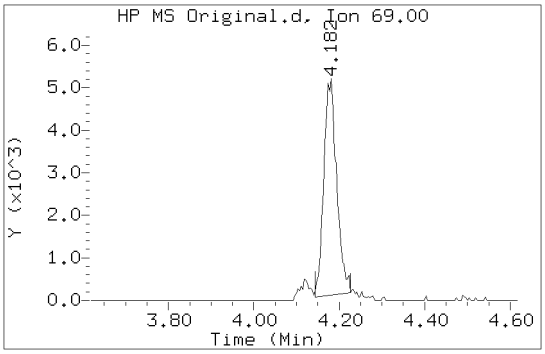
AFTER

MASS
84
AREA
2339
HEIGHT
1264
30-Mar-2023
12:41
linh
pham



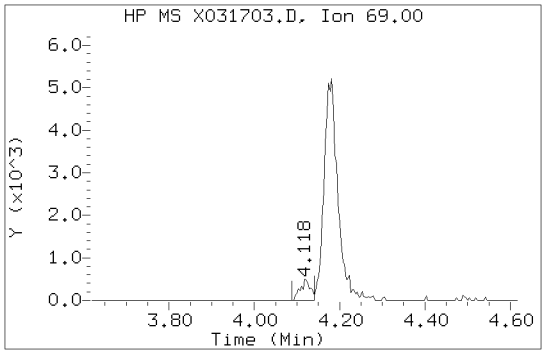
BEFORE

MASS
69
AREA
10635
HEIGHT
5092
30-Mar-2023
12:33
linh
pham



AFTER

MASS
69
AREA
828
HEIGHT
492
30-Mar-2023
12:41
linh
pham

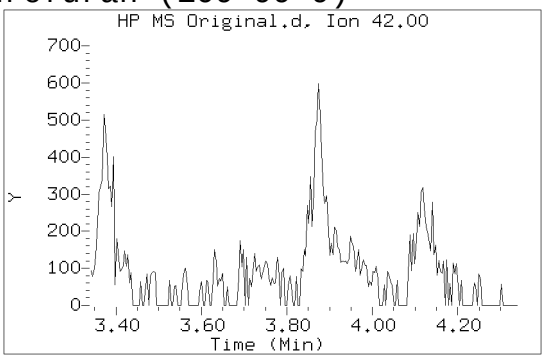


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

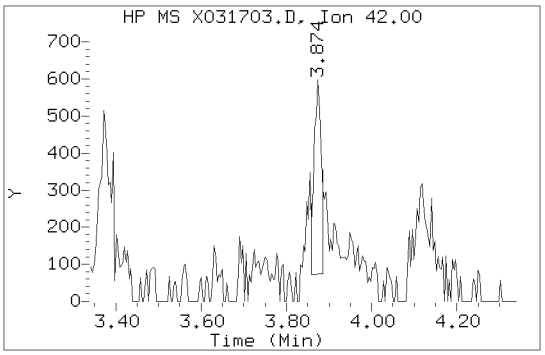
Tetrahydrofuran (109-99-9)

Reason Code:

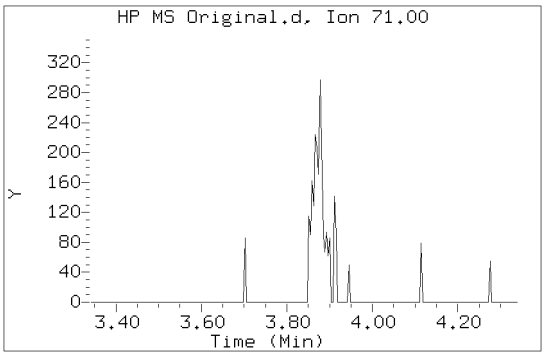
BEFORE
MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



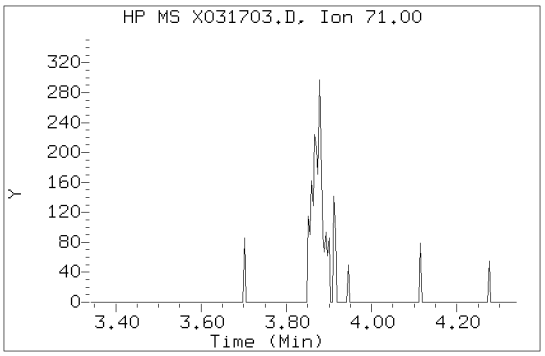
AFTER
MASS
42
AREA
614
HEIGHT
524
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
71
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



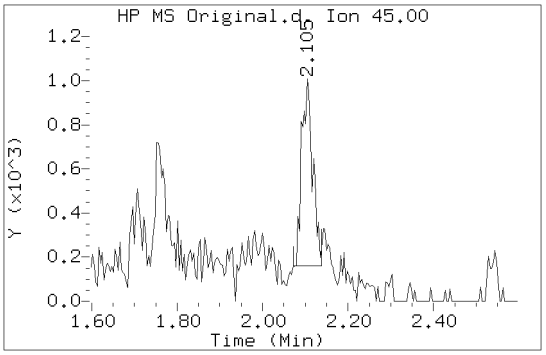
AFTER
MASS
71
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



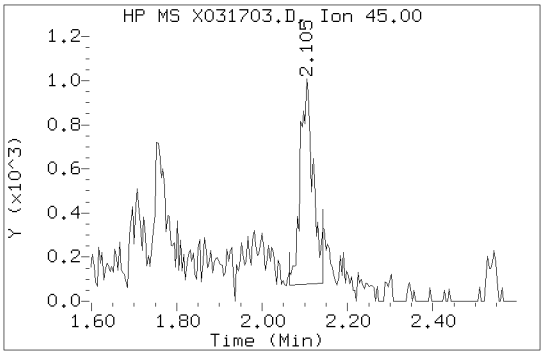
Isopropyl alcohol (67-63-0)

Reason Code:

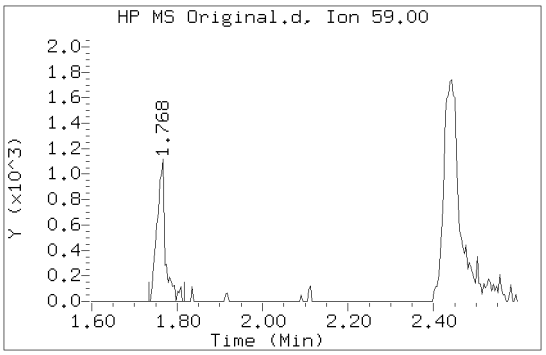
BEFORE
MASS
45
AREA
1548
HEIGHT
848
30-Mar-2023
12:33
linh
pham



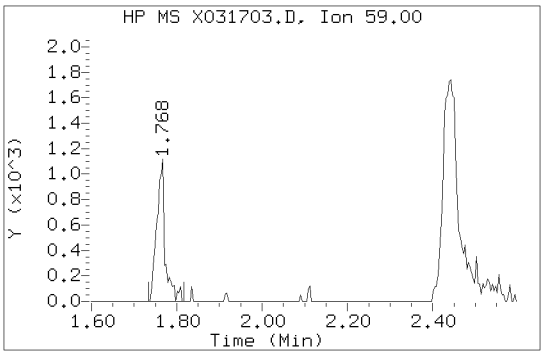
AFTER
MASS
45
AREA
1979
HEIGHT
930
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
59
AREA
1523
HEIGHT
1120
30-Mar-2023
12:33
linh
pham



AFTER
MASS
59
AREA
1523
HEIGHT
1120
30-Mar-2023
12:41
linh
pham



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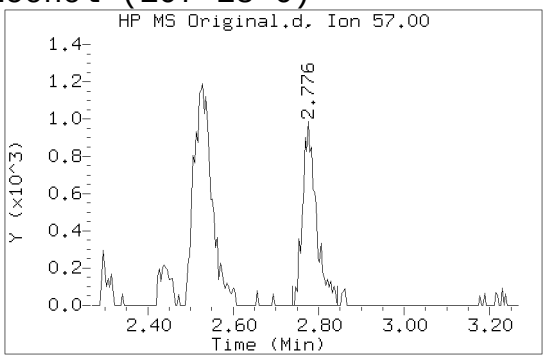
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Allyl alcohol (107-18-6)

Reason Code:

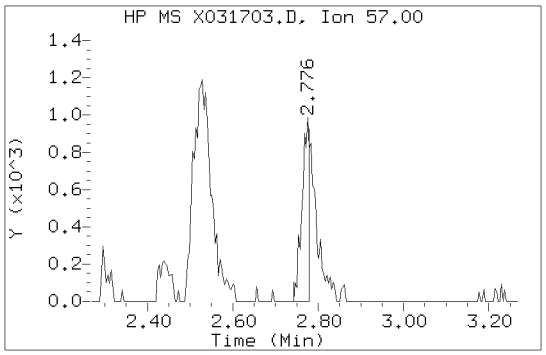
BEFORE

MASS
57
AREA
2232
HEIGHT
989
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
1223
HEIGHT
989
30-Mar-2023
12:41
linh
pham

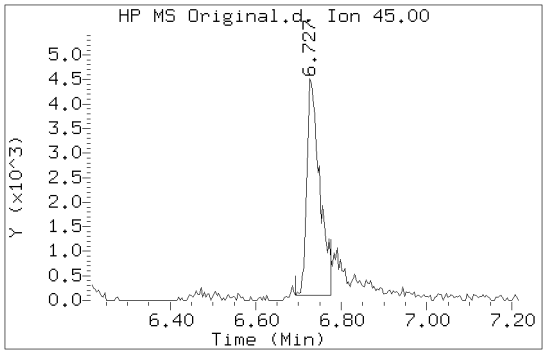


4-Methyl-2-pentanol (108-11-2)

Reason Code:

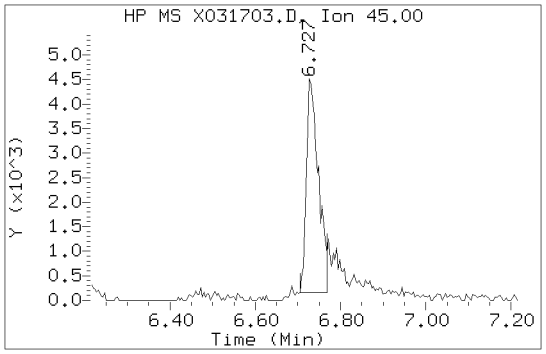
BEFORE

MASS
45
AREA
9346
HEIGHT
4407
30-Mar-2023
12:33
linh
pham



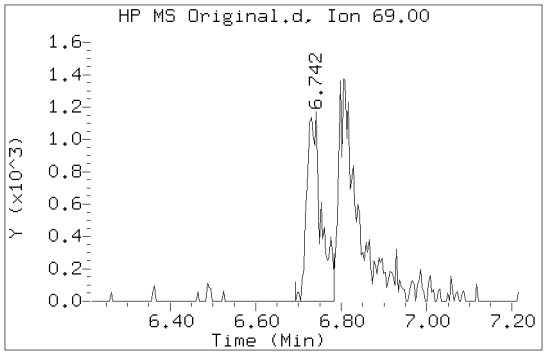
AFTER

MASS
45
AREA
8689
HEIGHT
4355
30-Mar-2023
12:41
linh
pham



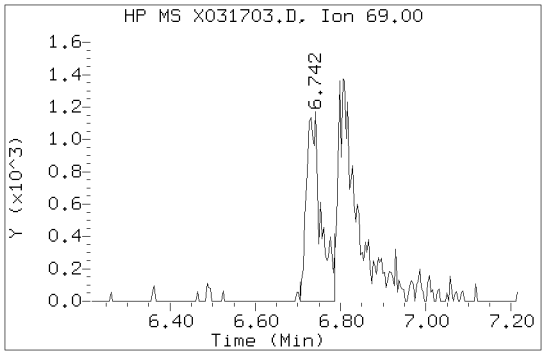
BEFORE

MASS
69
AREA
2745
HEIGHT
1173
30-Mar-2023
12:33
linh
pham



AFTER

MASS
69
AREA
2787
HEIGHT
1173
30-Mar-2023
12:41
linh
pham

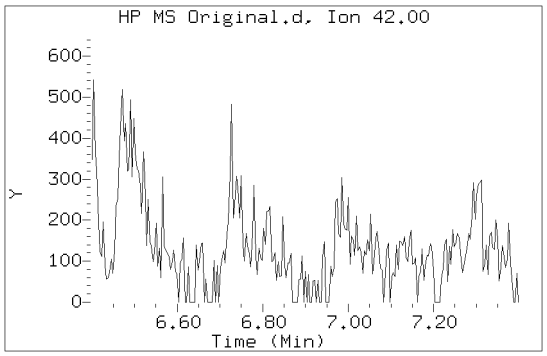


Amyl alcohol (71-41-0)

Reason Code:

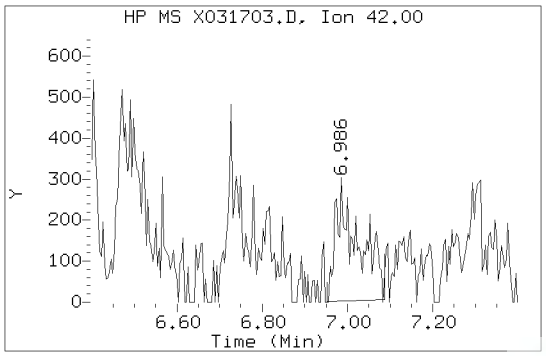
BEFORE

MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
42
AREA
1078
HEIGHT
301
30-Mar-2023
12:41
linh
pham

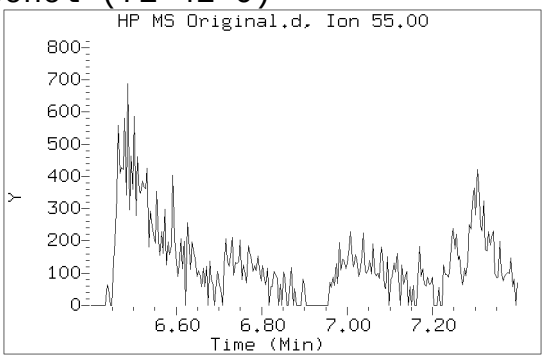


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Amyl alcohol (71-41-0)

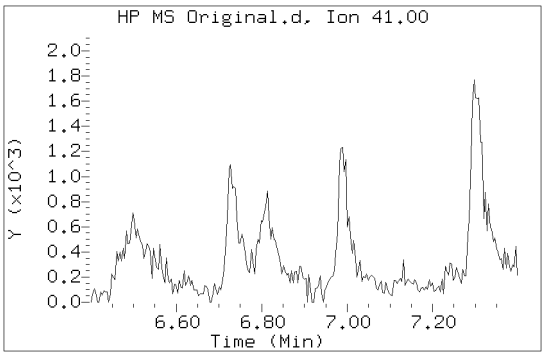
BEFORE

MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



BEFORE

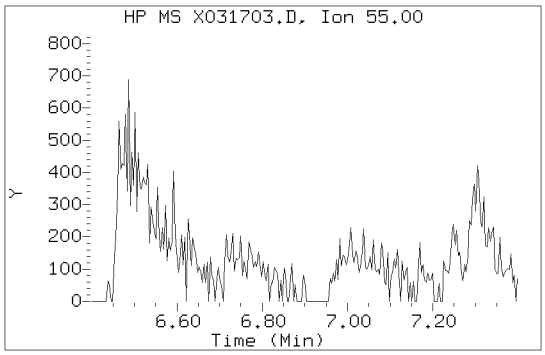
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

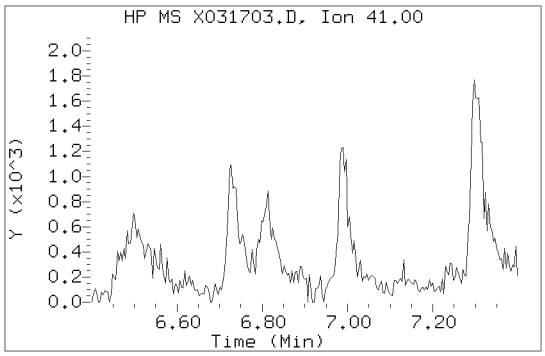
AFTER

MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



AFTER

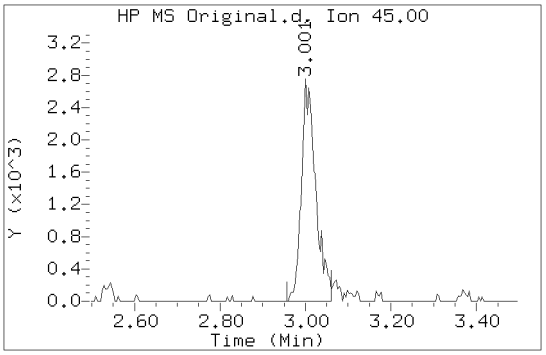
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



Diisopropyl ether (108-20-3)

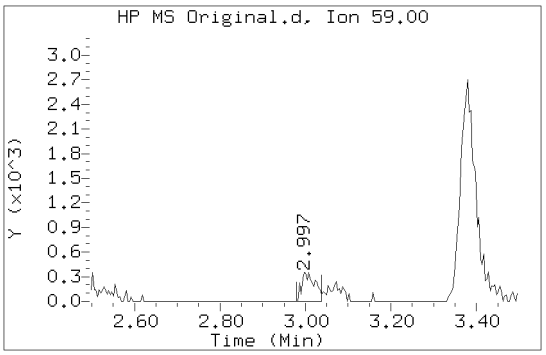
BEFORE

MASS
45
AREA
6493
HEIGHT
2756
30-Mar-2023
12:33
linh
pham



BEFORE

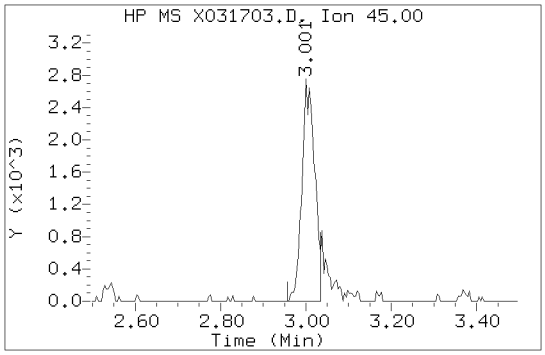
MASS
59
AREA
777
HEIGHT
355
30-Mar-2023
12:33
linh
pham



Reason Code:

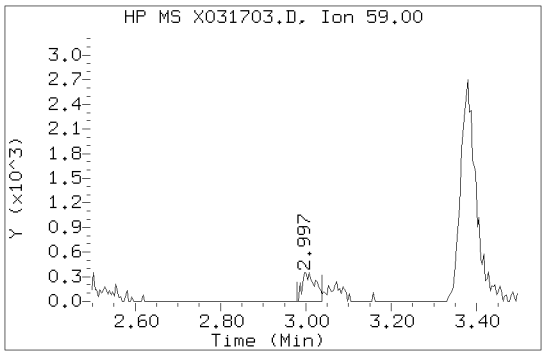
AFTER

MASS
45
AREA
5833
HEIGHT
2756
30-Mar-2023
12:41
linh
pham



AFTER

MASS
59
AREA
777
HEIGHT
355
30-Mar-2023
12:41
linh
pham



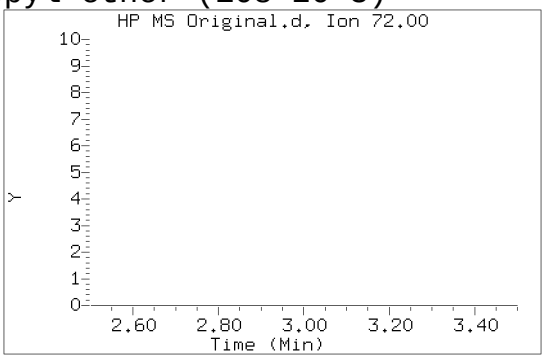
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Diisopropyl ether (108-20-3)

Reason Code:

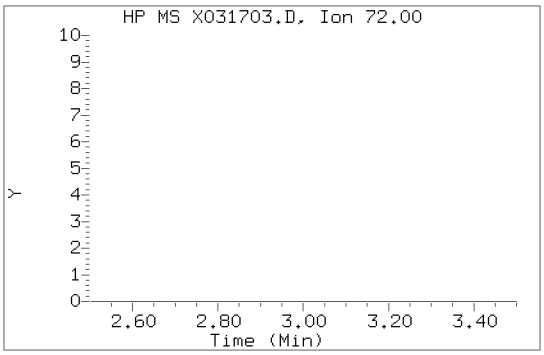
BEFORE

MASS
72
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
72
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

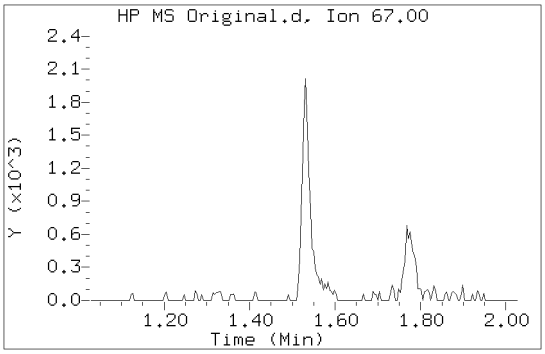


Dichlorofluoromethane (75-43-4)

Reason Code:

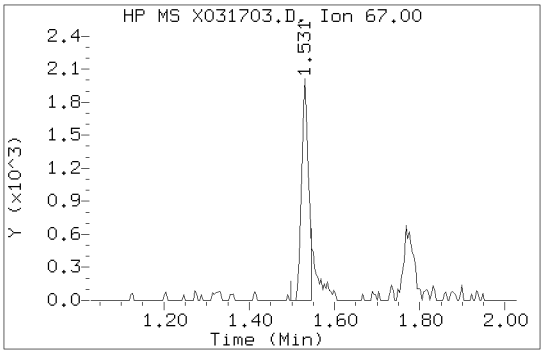
BEFORE

MASS
67
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



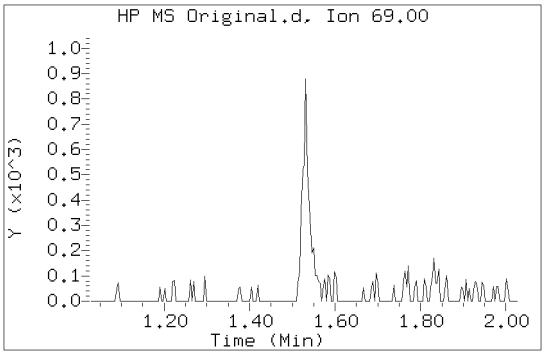
AFTER

MASS
67
AREA
2337
HEIGHT
2013
30-Mar-2023
12:41
linh
pham



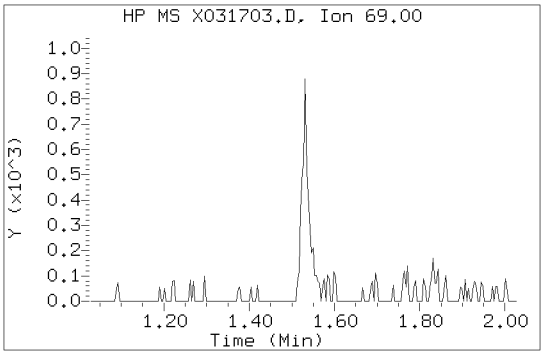
BEFORE

MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



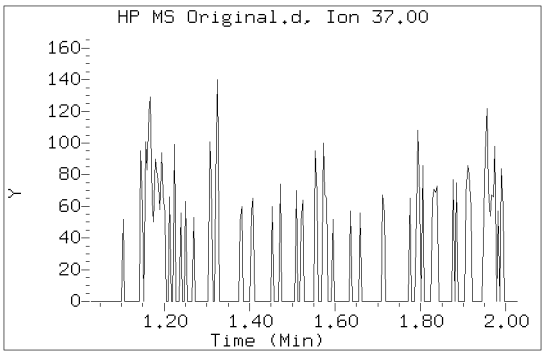
AFTER

MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



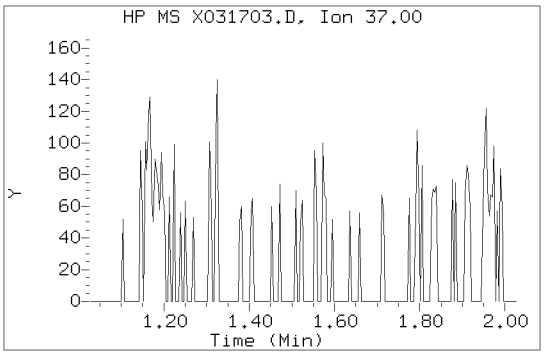
BEFORE

MASS
37
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
37
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

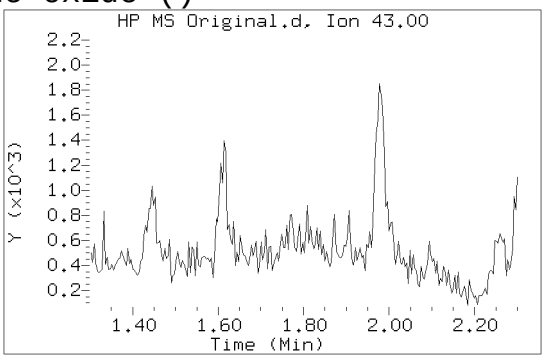


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

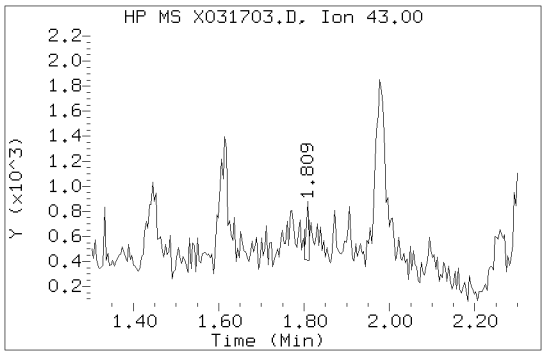
Propylene oxide ()

Reason Code:

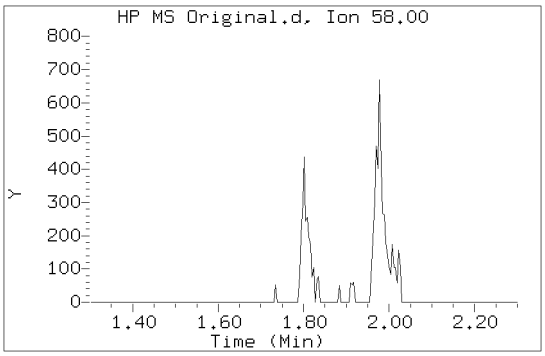
BEFORE
MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



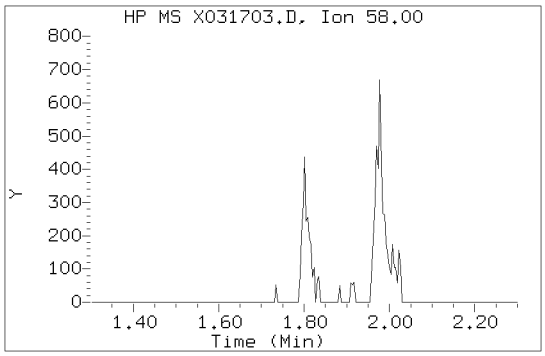
AFTER
MASS
43
AREA
209
HEIGHT
466
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



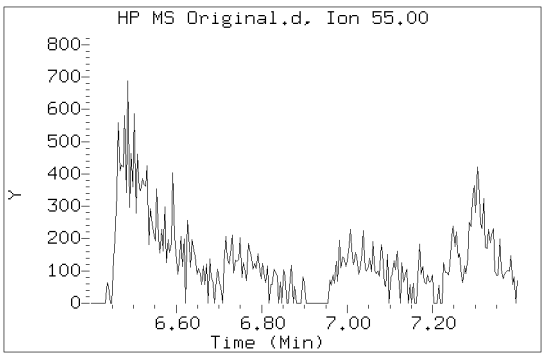
AFTER
MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



3-Methyl-1-butanol (123-51-3)

Reason Code:

BEFORE
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
55
AREA
851
HEIGHT
229
30-Mar-2023
12:41
linh
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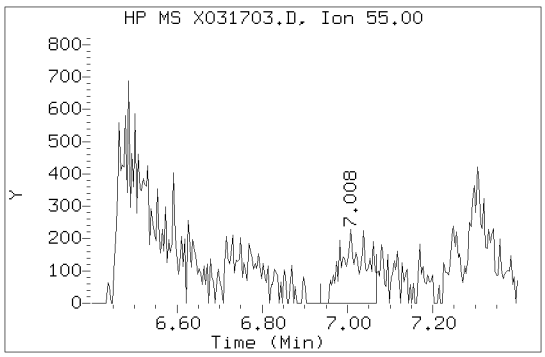

BEFORE
MASS
41
AREA
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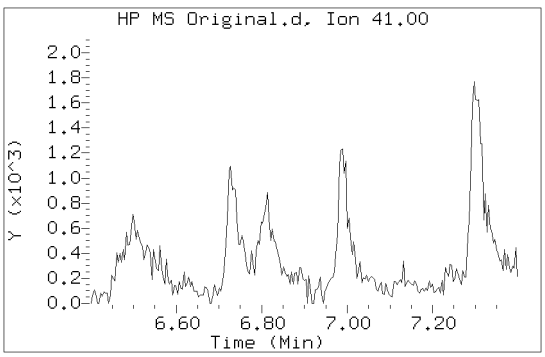
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
41
AREA
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HEIGHT
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30-Mar-2023
12:41
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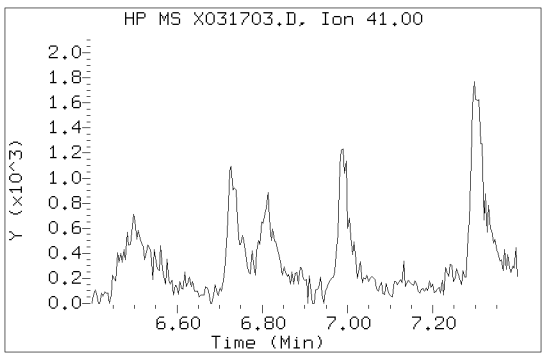

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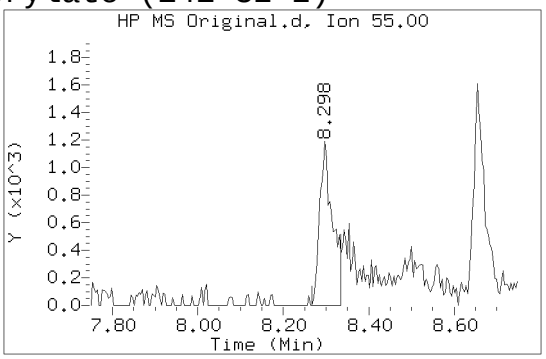
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Butyl acrylate (141-32-2)

Reason Code:

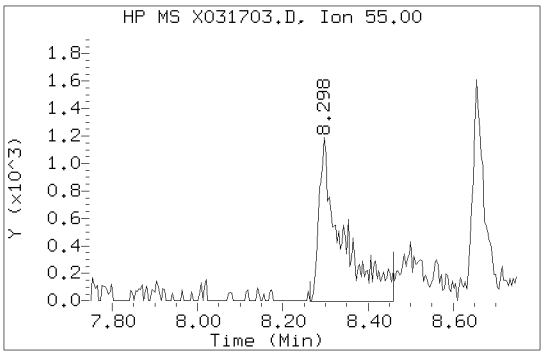
BEFORE

MASS
55
AREA
2500
HEIGHT
1190
30-Mar-2023
12:33
linh
pham



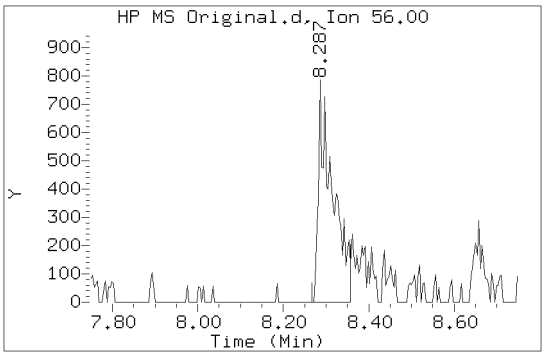
AFTER

MASS
55
AREA
4463
HEIGHT
1193
30-Mar-2023
12:41
linh
pham



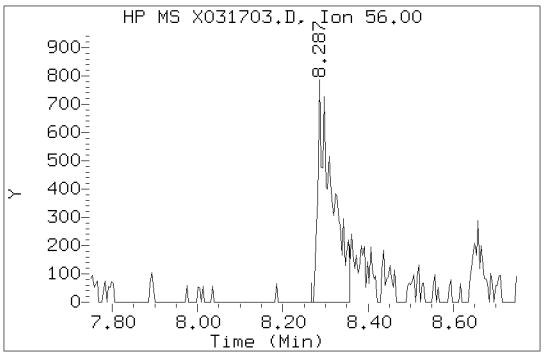
BEFORE

MASS
56
AREA
1802
HEIGHT
786
30-Mar-2023
12:33
linh
pham



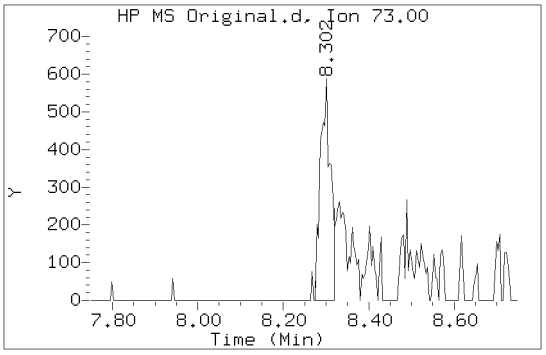
AFTER

MASS
56
AREA
1802
HEIGHT
786
30-Mar-2023
12:41
linh
pham



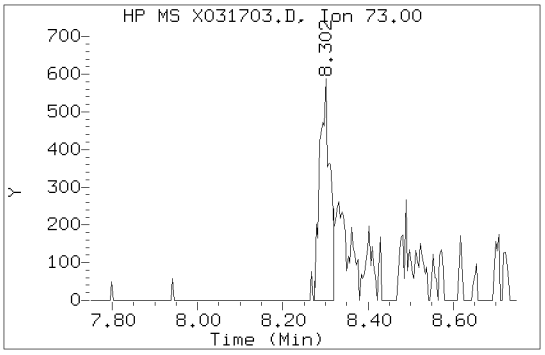
BEFORE

MASS
73
AREA
966
HEIGHT
588
30-Mar-2023
12:33
linh
pham



AFTER

MASS
73
AREA
966
HEIGHT
588
30-Mar-2023
12:41
linh
pham



Ethanol (64-17-5)

Reason Code:

BEFORE

MASS
45
AREA
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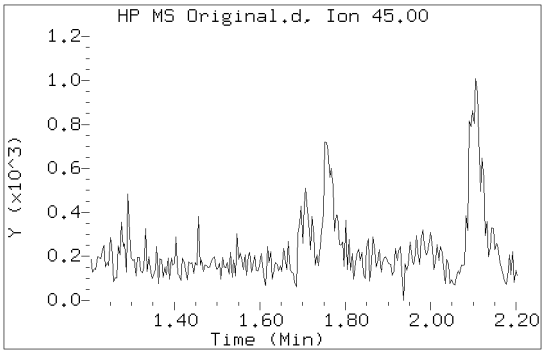
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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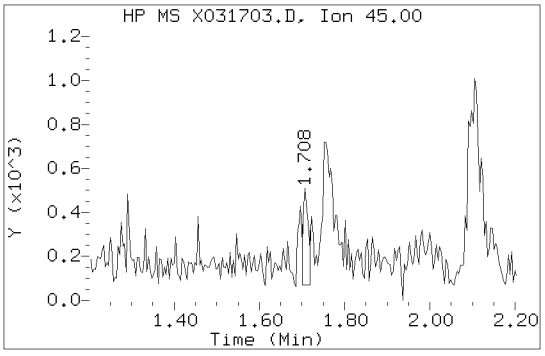
AREA
398
HEIGHT
440
30-Mar-2023
12:41
linh
pham



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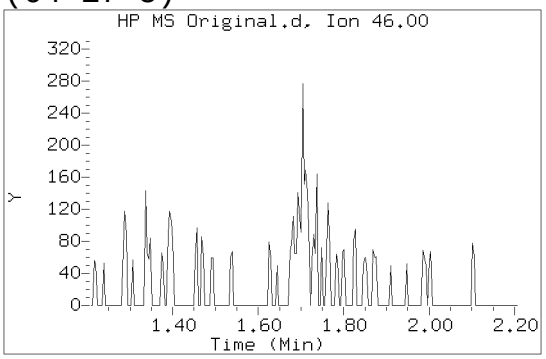
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Ethanol (64-17-5)

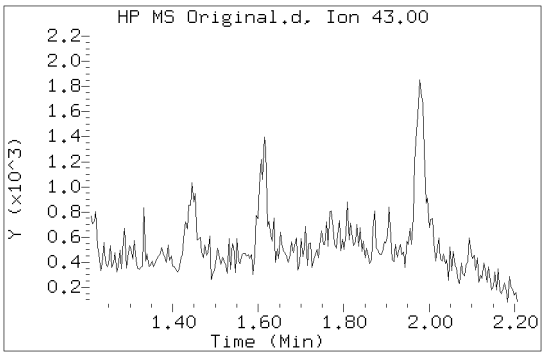
BEFORE

MASS
46
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



BEFORE

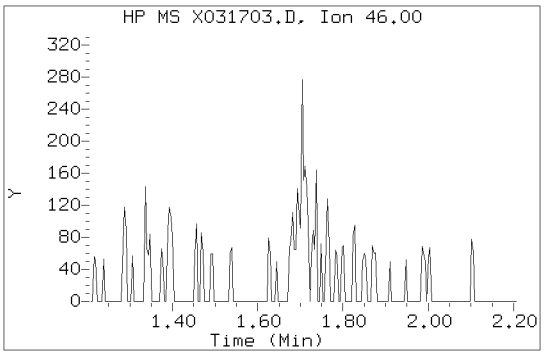
MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

MASS
46
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



AFTER

MASS
43
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HEIGHT
0
30-Mar-2023
12:41
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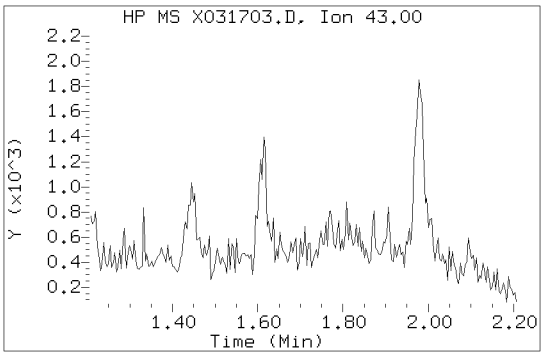
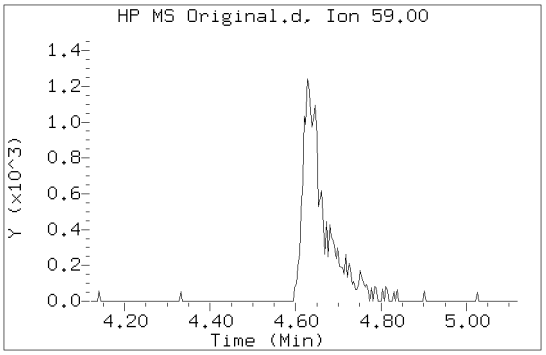
pham



tert-Butyl formate (762-75-4)

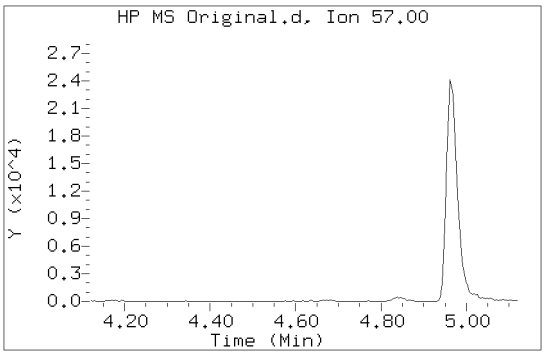
BEFORE

MASS
59
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



BEFORE

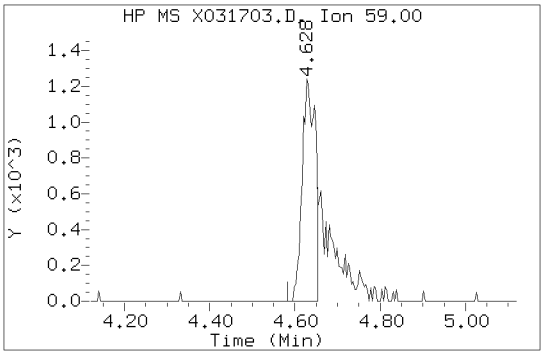
MASS
57
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

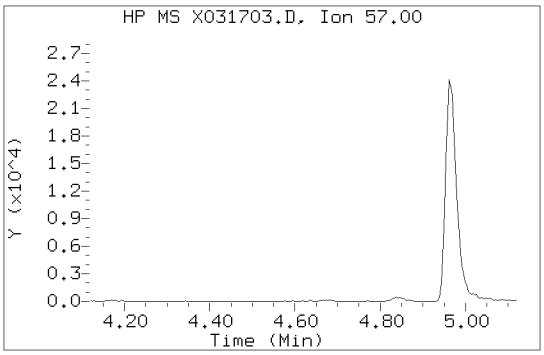
AFTER

MASS
59
AREA
2676
HEIGHT
1242
30-Mar-2023
12:41
linh
pham



AFTER

MASS
57
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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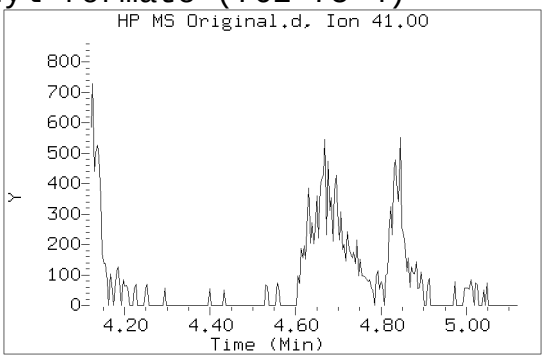
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

tert-Butyl formate (762-75-4)

Reason Code:

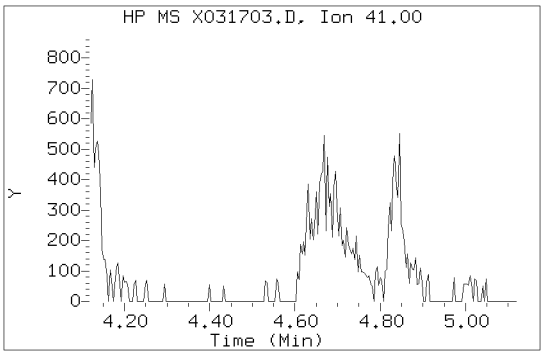
BEFORE

MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

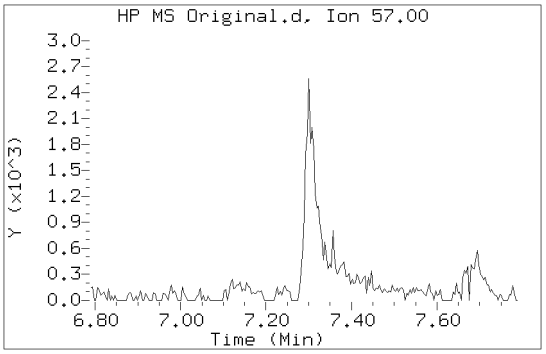


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE

MASS
57
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
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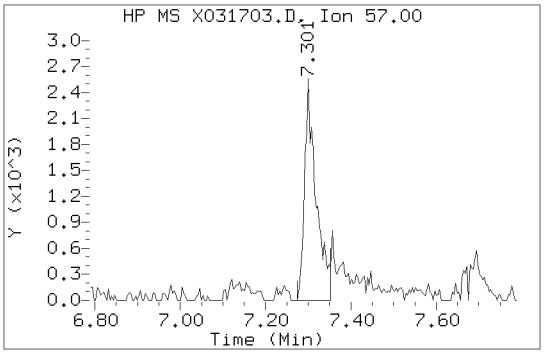
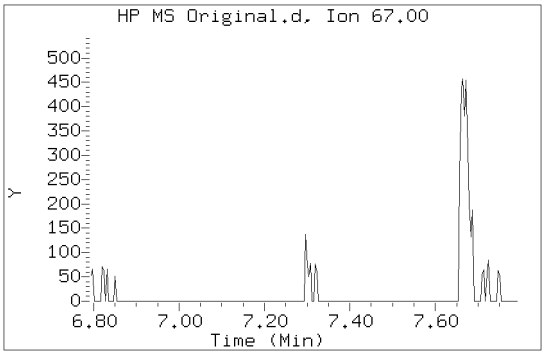
HEIGHT
2561
30-Mar-2023
12:41
linh
pham



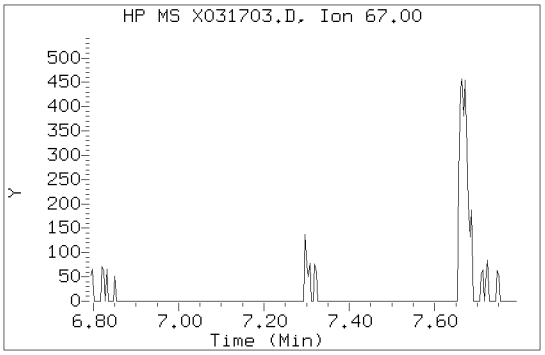
BEFORE

MASS
67
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



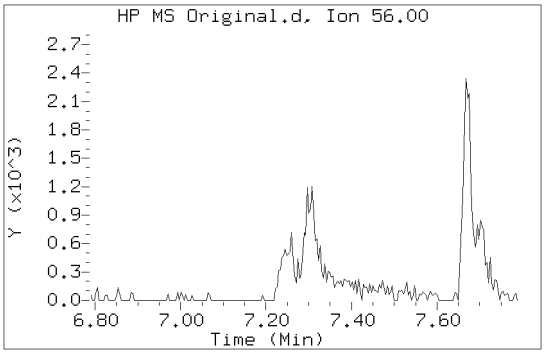
AFTER

MASS
67
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



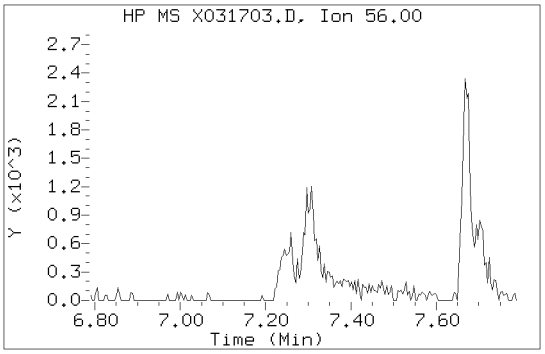
BEFORE

MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

tert-Amyl methyl ether (974-05-08)

Reason Code:

BEFORE

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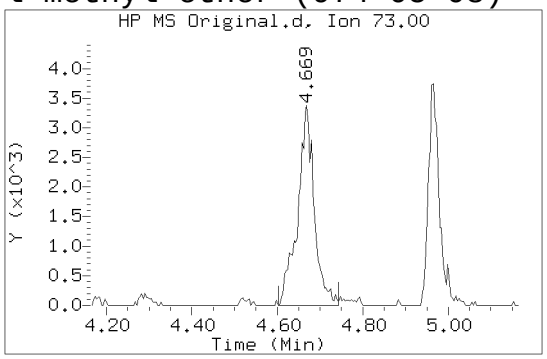
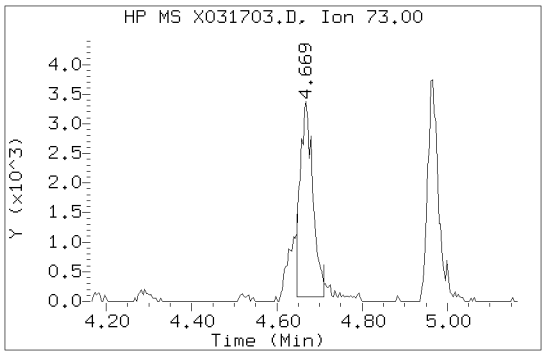
AREA
9221
HEIGHT
3379
30-Mar-2023
12:33
linh
pham



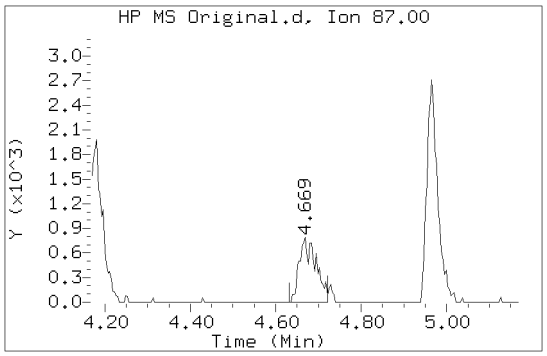
AFTER

MASS
73
AREA
7050
HEIGHT
3307
30-Mar-2023
12:41
linh
pham



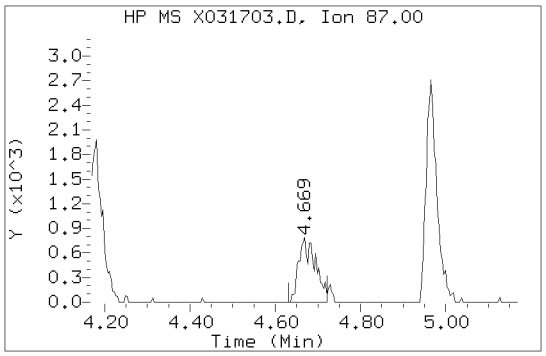
BEFORE

MASS
87
AREA
2185
HEIGHT
790
30-Mar-2023
12:33
linh
pham



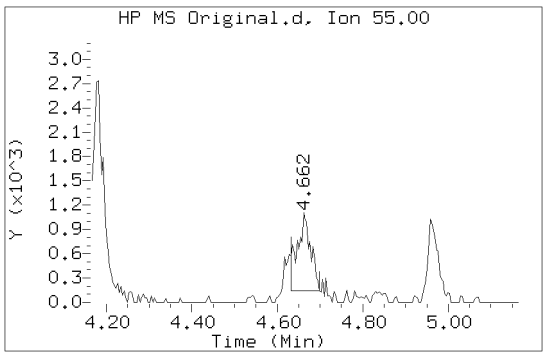
AFTER

MASS
87
AREA
2185
HEIGHT
790
30-Mar-2023
12:41
linh
pham



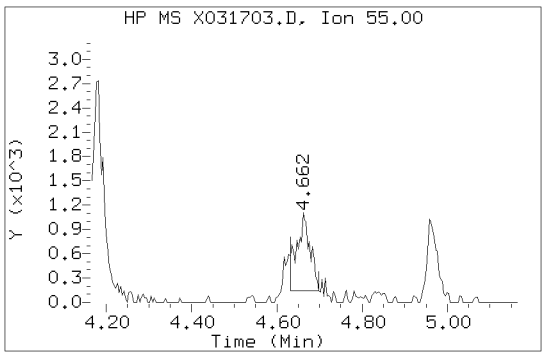
BEFORE

MASS
55
AREA
2163
HEIGHT
964
30-Mar-2023
12:33
linh
pham



AFTER

MASS
55
AREA
2163
HEIGHT
964
30-Mar-2023
12:41
linh
pham



tert-Butyl ethyl ether (637-92-3)

Reason Code:

BEFORE

MASS
59
AREA
6822
HEIGHT
2701
30-Mar-2023
12:33
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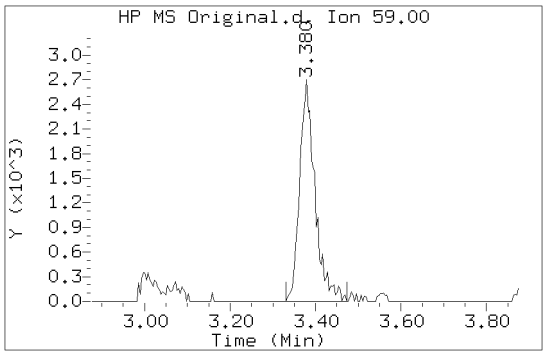
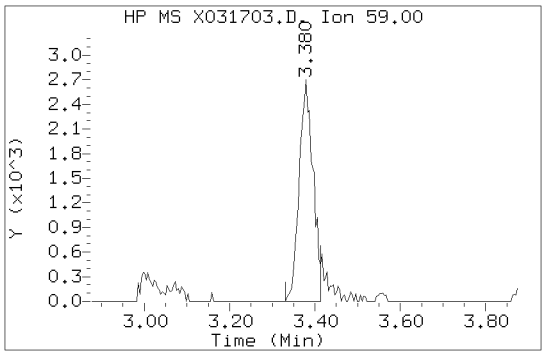
pham



AFTER

MASS
59
AREA
6191
HEIGHT
2701
30-Mar-2023
12:41
linh
pham



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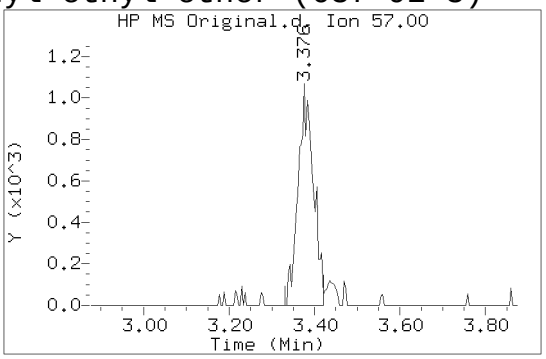
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

tert-Butyl ethyl ether (637-92-3)

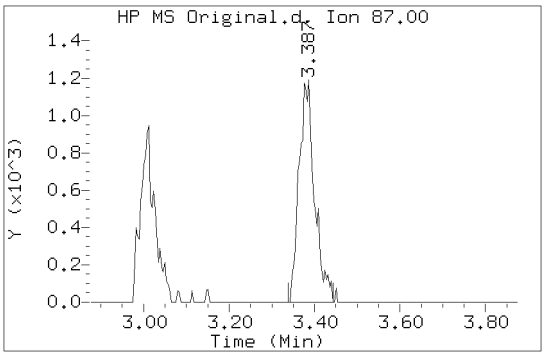
BEFORE

MASS
57
AREA
2669
HEIGHT
1069
30-Mar-2023
12:33
linh
pham



BEFORE

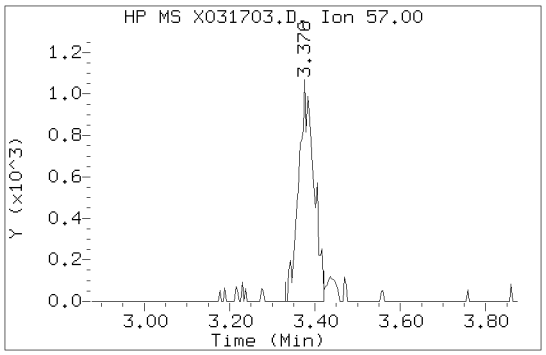
MASS
87
AREA
3036
HEIGHT
1191
30-Mar-2023
12:33
linh
pham



Reason Code:

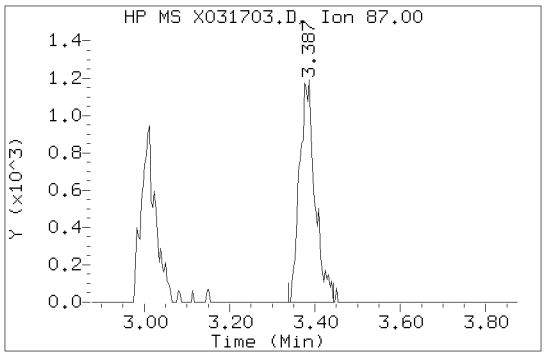
AFTER

MASS
57
AREA
2669
HEIGHT
1069
30-Mar-2023
12:41
linh
pham



AFTER

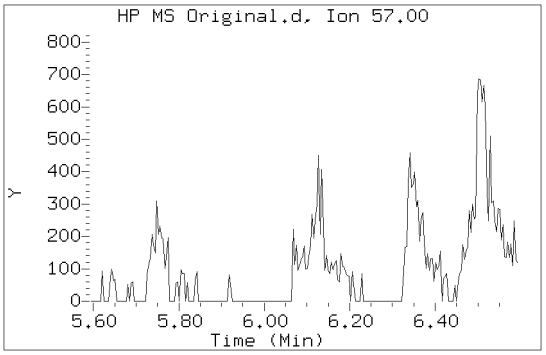
MASS
87
AREA
3036
HEIGHT
1191
30-Mar-2023
12:41
linh
pham



Epichlorohydrin (106-89-8)

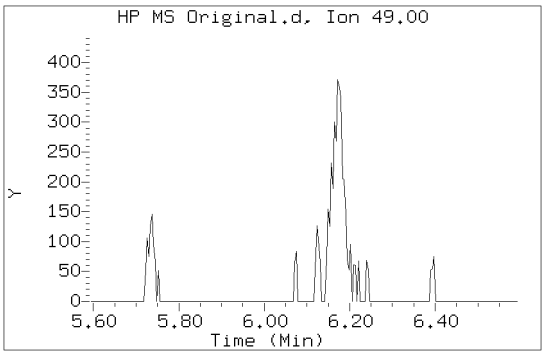
BEFORE

MASS
57
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



BEFORE

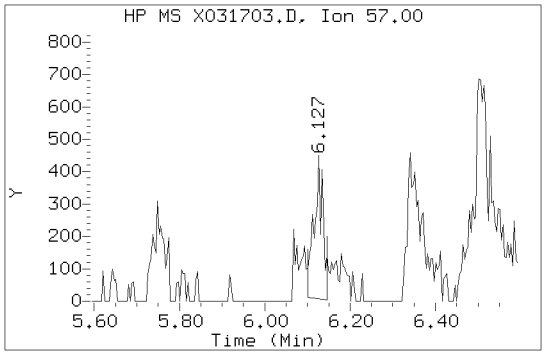
MASS
49
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

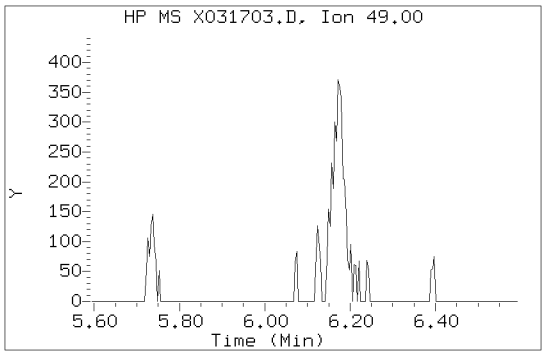
AFTER

MASS
57
AREA
641
HEIGHT
443
30-Mar-2023
12:41
linh
pham



AFTER

MASS
49
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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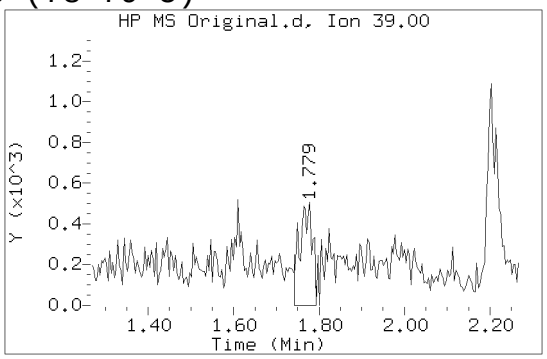
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Isoprene (78-79-5)

Reason Code:

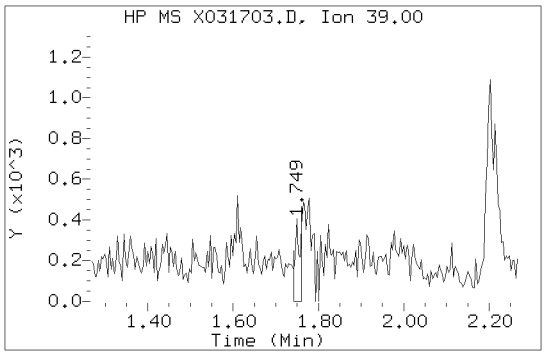
BEFORE

MASS
39
AREA
1078
HEIGHT
508
30-Mar-2023
12:33
linh
pham



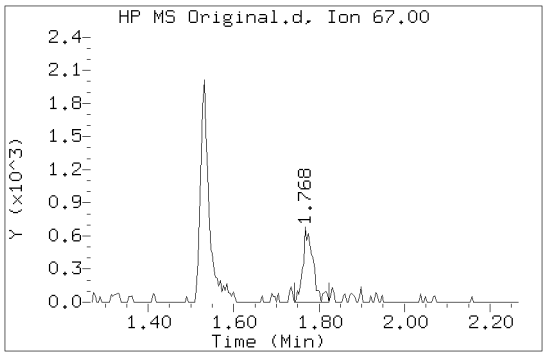
AFTER

MASS
39
AREA
361
HEIGHT
407
30-Mar-2023
12:41
linh
pham



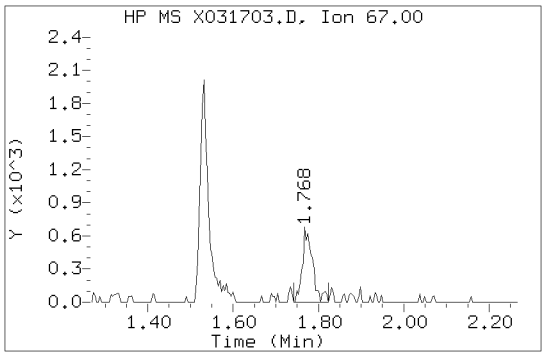
BEFORE

MASS
67
AREA
1162
HEIGHT
679
30-Mar-2023
12:33
linh
pham



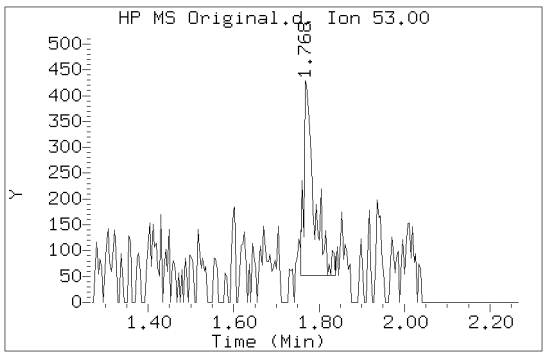
AFTER

MASS
67
AREA
1162
HEIGHT
679
30-Mar-2023
12:41
linh
pham



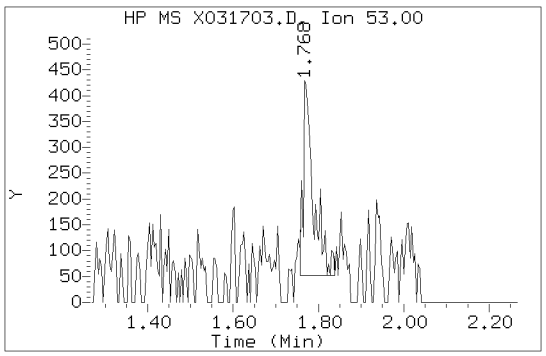
BEFORE

MASS
53
AREA
632
HEIGHT
377
30-Mar-2023
12:33
linh
pham



AFTER

MASS
53
AREA
632
HEIGHT
377
30-Mar-2023
12:41
linh
pham

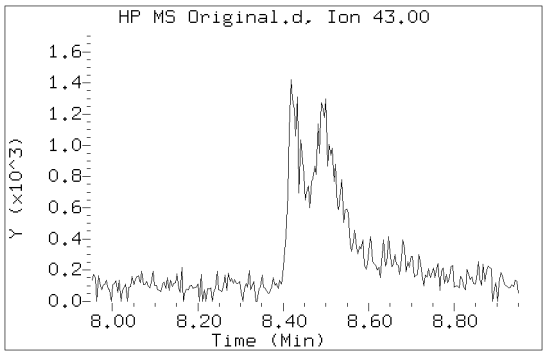


n-Amyl acetate (628-63-7)

Reason Code:

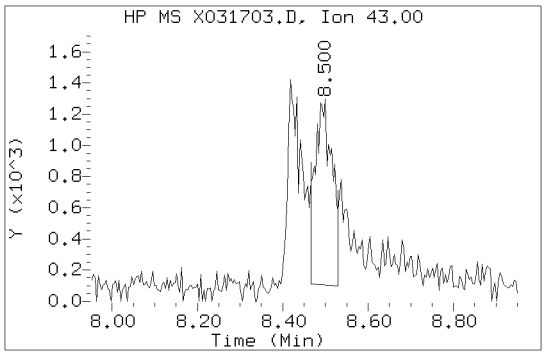
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
AREA
3393
HEIGHT
1193
30-Mar-2023
12:41
linh
pham



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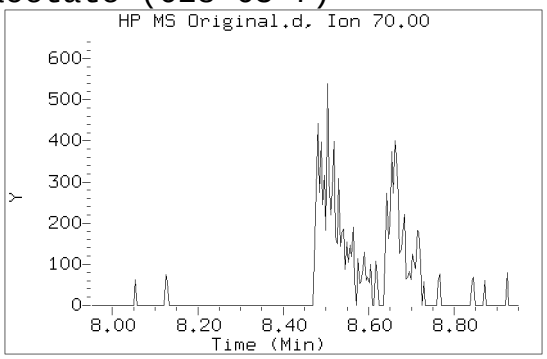
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

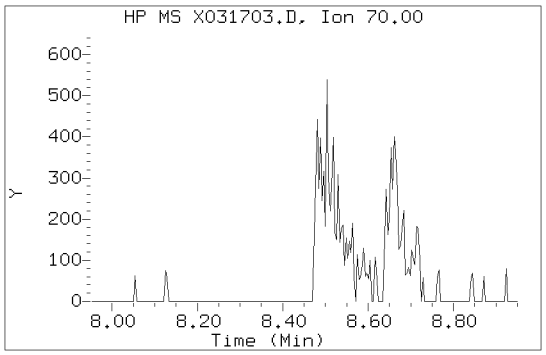
n-Amyl acetate (628-63-7)

Reason Code:

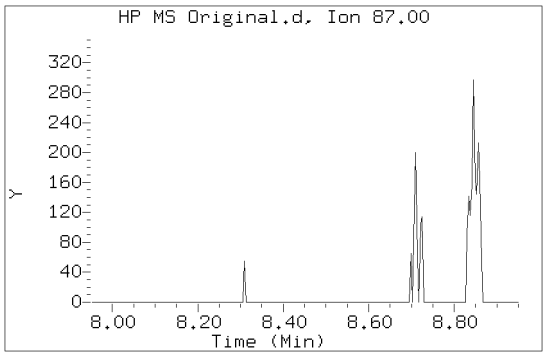
BEFORE
MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



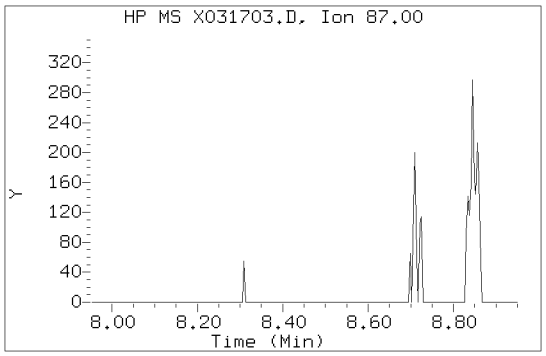
AFTER
MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



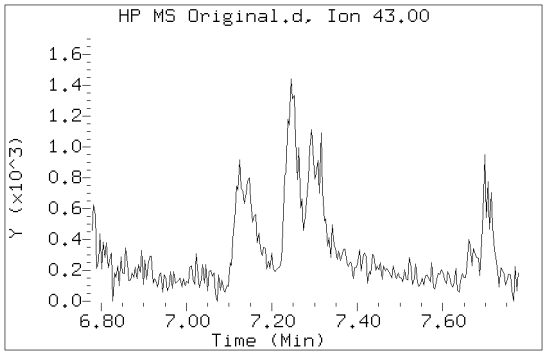
AFTER
MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



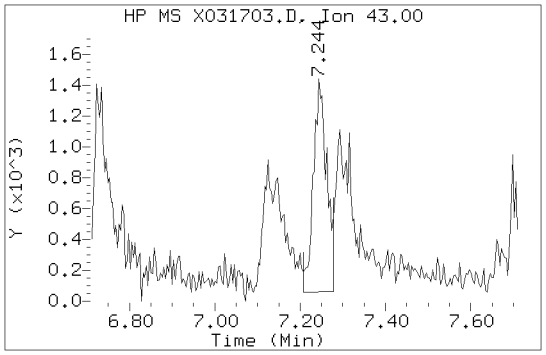
n-Butyl acetate (123-86-4)

Reason Code:

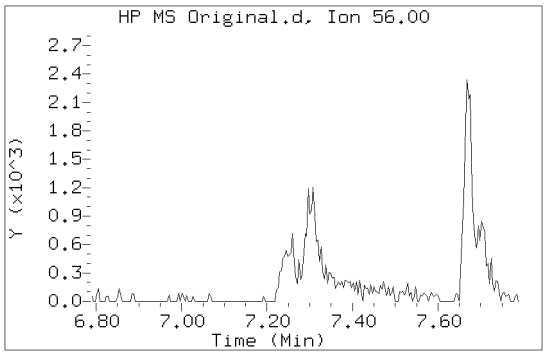
BEFORE
MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



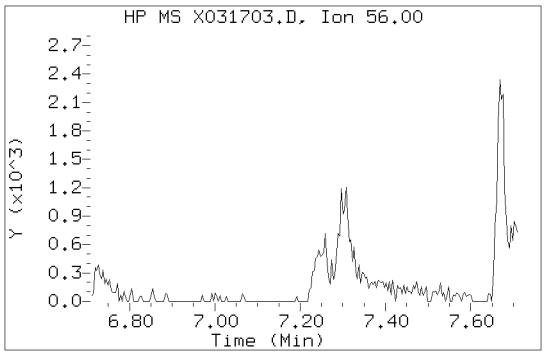
AFTER
MASS
43
AREA
3030
HEIGHT
1378
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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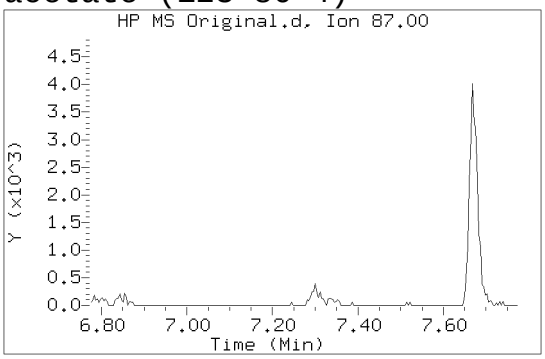
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

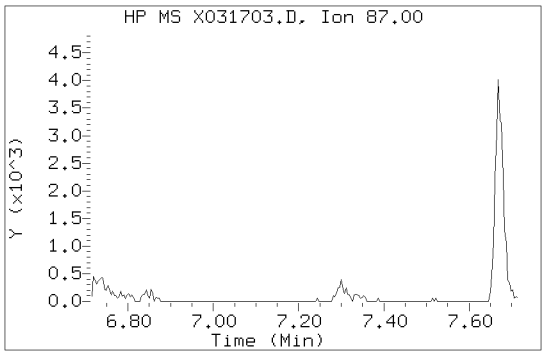
n-Butyl acetate (123-86-4)

Reason Code:

BEFORE
MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



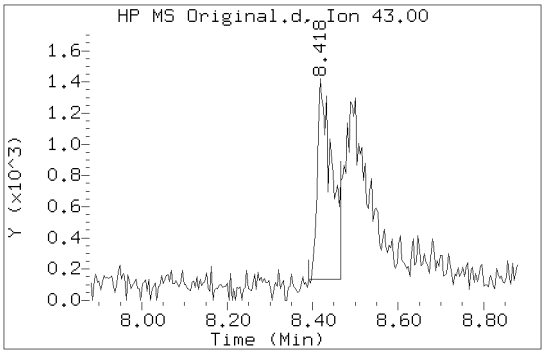
AFTER
MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



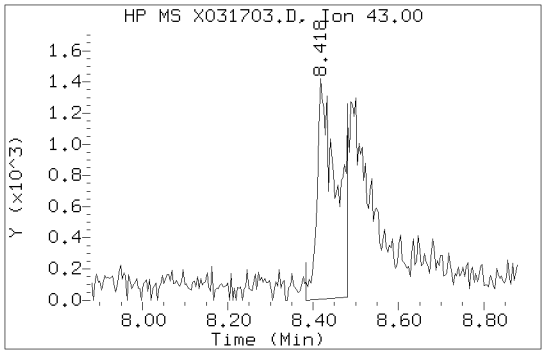
Methyl Amyl Ketone (110-43-0)

Reason Code:

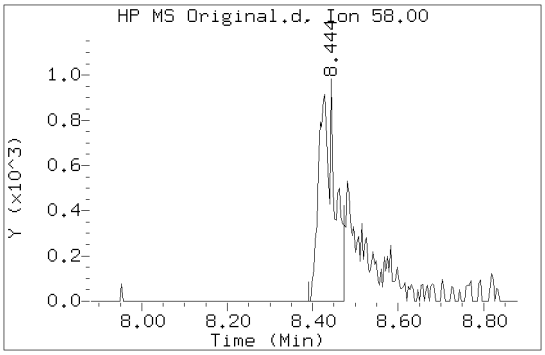
BEFORE
MASS
43
AREA
3008
HEIGHT
1286
30-Mar-2023
12:33
linh
pham



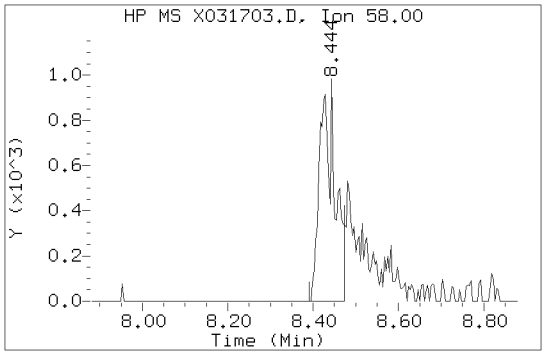
AFTER
MASS
43
AREA
4445
HEIGHT
1414
30-Mar-2023
12:41
linh
pham



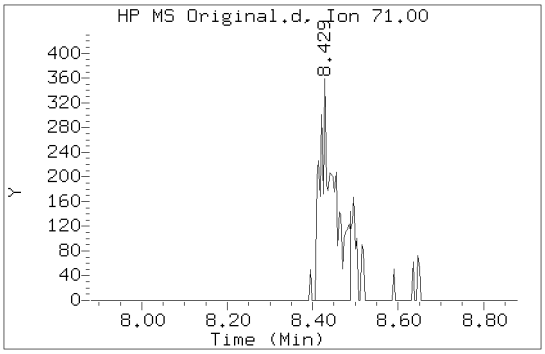
BEFORE
MASS
58
AREA
2410
HEIGHT
983
30-Mar-2023
12:33
linh
pham



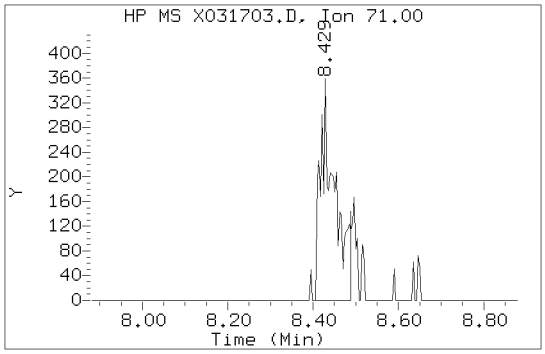
AFTER
MASS
58
AREA
2410
HEIGHT
983
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
71
AREA
846
HEIGHT
359
30-Mar-2023
12:33
linh
pham



AFTER
MASS
71
AREA
846
HEIGHT
359
30-Mar-2023
12:41
linh
pham



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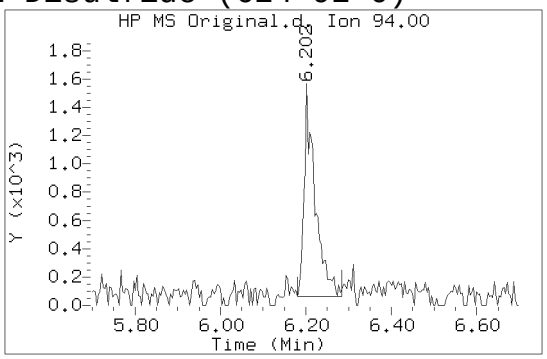
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

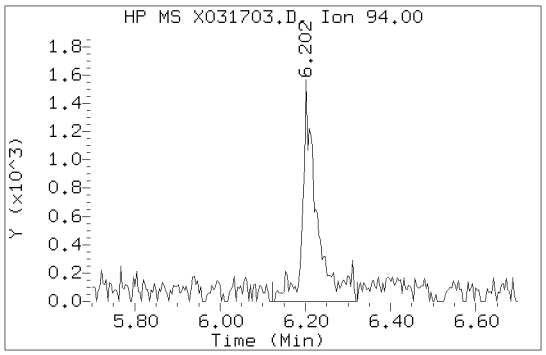
Dimethyl Disulfide (624-92-0)

Reason Code:

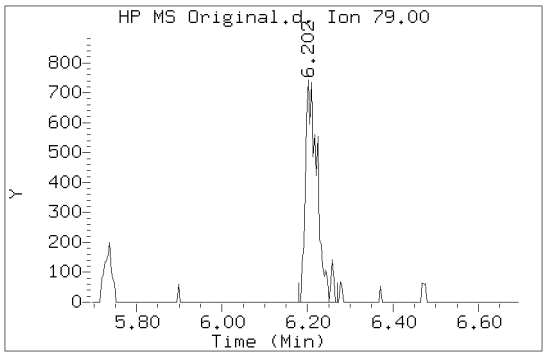
BEFORE
MASS
94
AREA
2708
HEIGHT
1503
30-Mar-2023
12:33
linh
pham



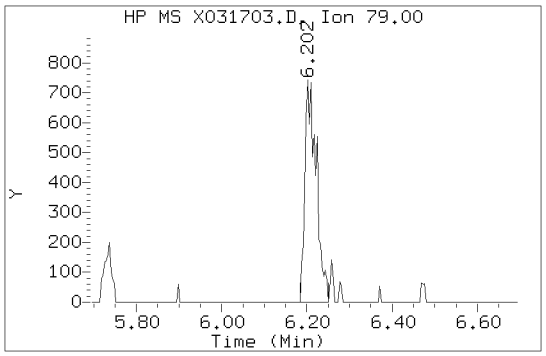
AFTER
MASS
94
AREA
3700
HEIGHT
1567
30-Mar-2023
12:41
linh
pham



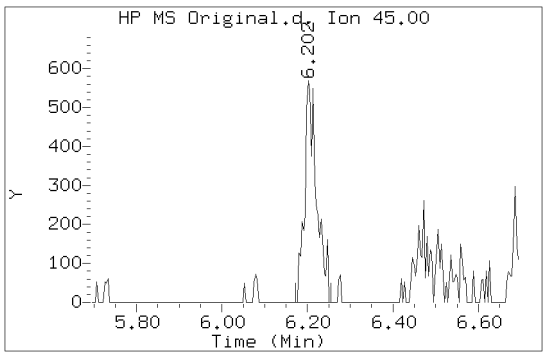
BEFORE
MASS
79
AREA
1457
HEIGHT
743
30-Mar-2023
12:33
linh
pham



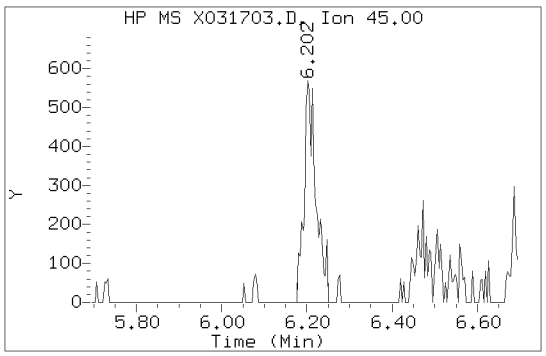
AFTER
MASS
79
AREA
1393
HEIGHT
743
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
45
AREA
1130
HEIGHT
569
30-Mar-2023
12:33
linh
pham



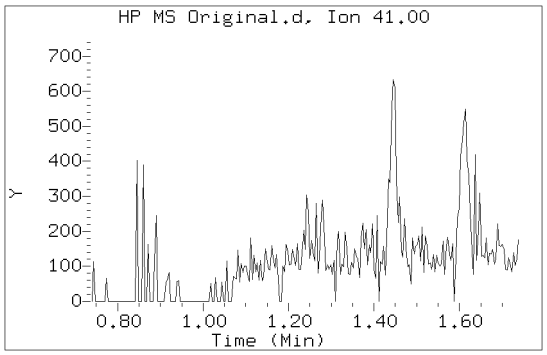
AFTER
MASS
45
AREA
1130
HEIGHT
569
30-Mar-2023
12:41
linh
pham



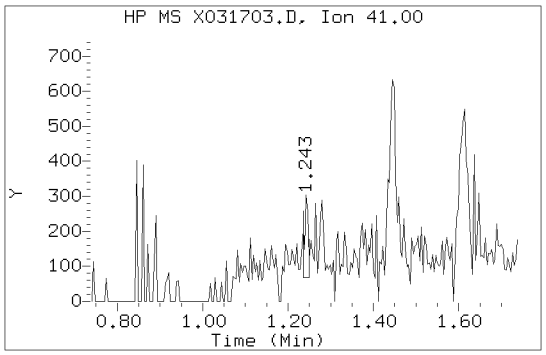
Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
41
AREA
156
HEIGHT
236
30-Mar-2023
12:41
linh
pham



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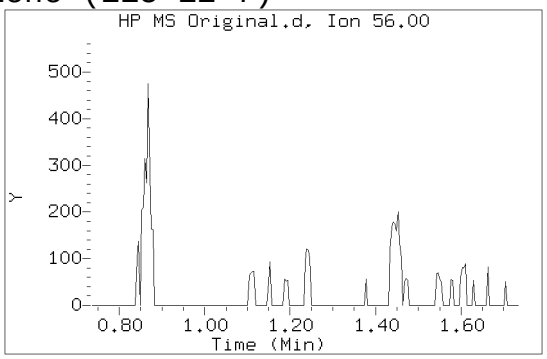
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

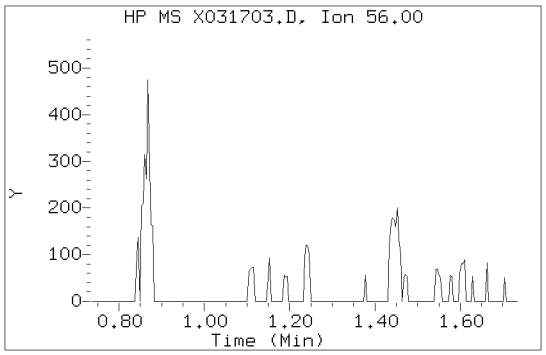
Isobutylene (115-11-7)

Reason Code:

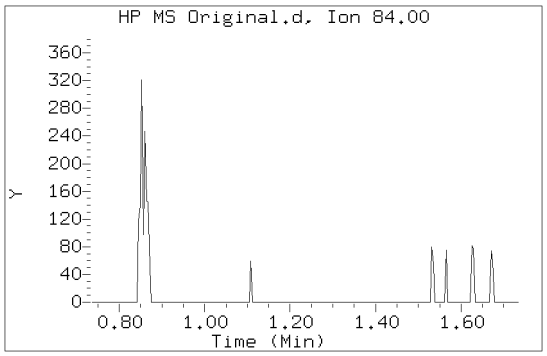
BEFORE
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



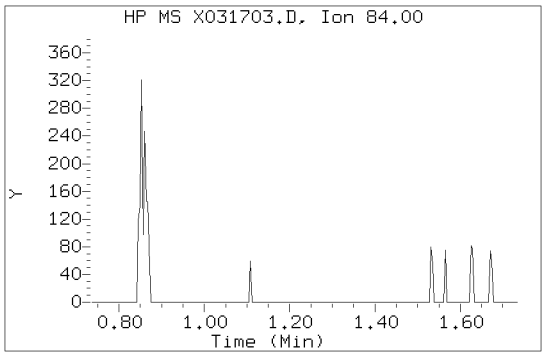
AFTER
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
84
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



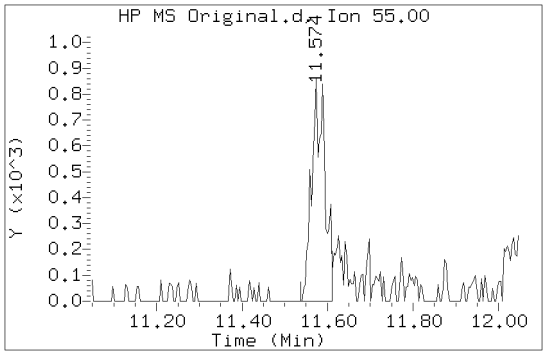
AFTER
MASS
84
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



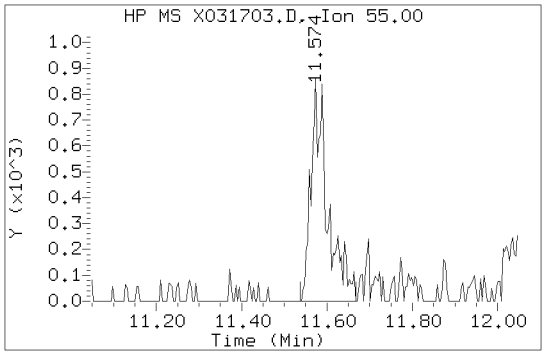
2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

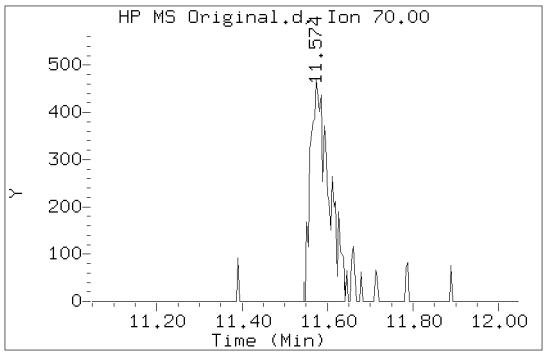
BEFORE
MASS
55
AREA
1818
HEIGHT
859
30-Mar-2023
12:33
linh
pham



AFTER
MASS
55
AREA
2268
HEIGHT
859
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
70
AREA
1400
HEIGHT
469
30-Mar-2023
12:33
linh
pham



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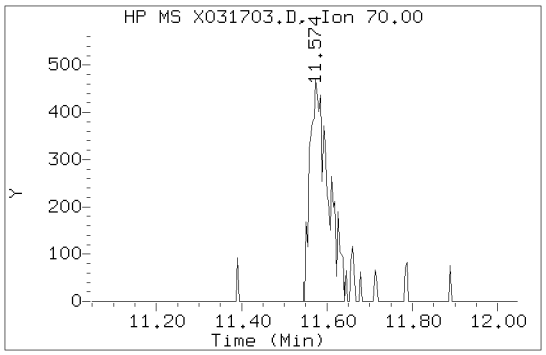

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InstruID : voa6.i
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1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

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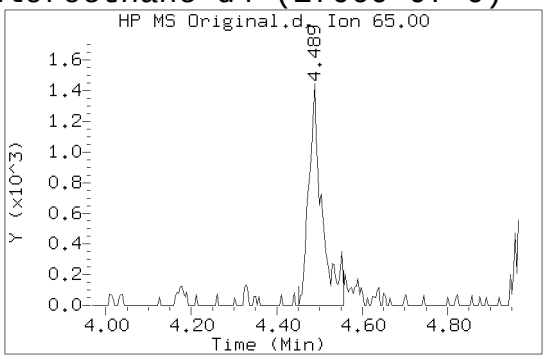

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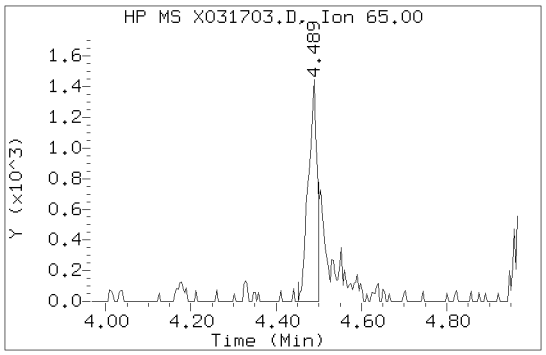

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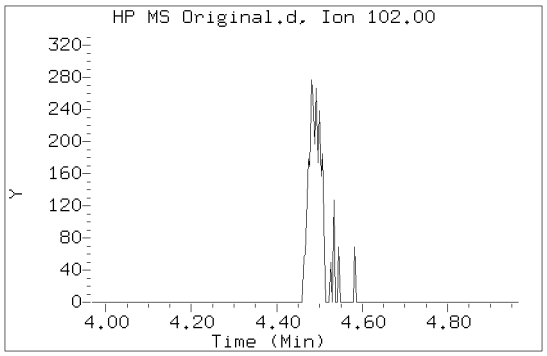

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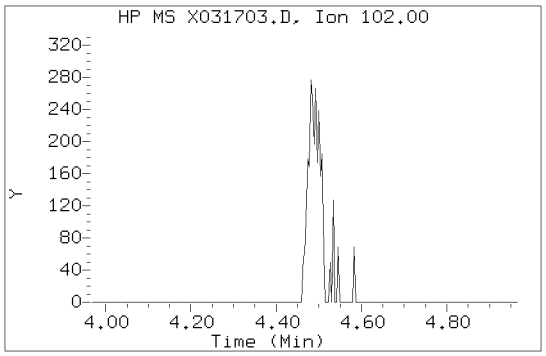

Toluene-d8 (2037-26-5)

Reason Code:

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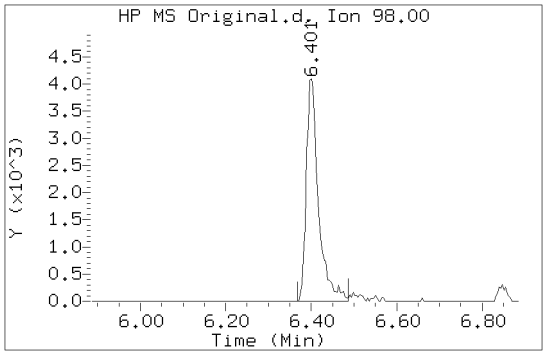

AFTER

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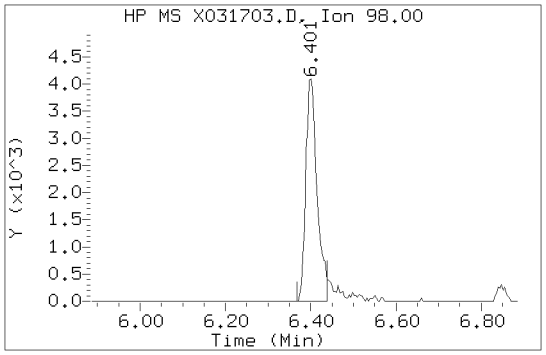

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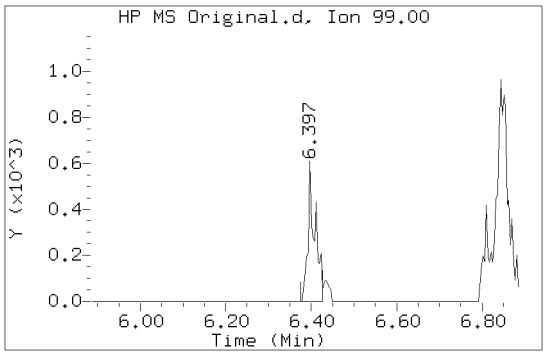

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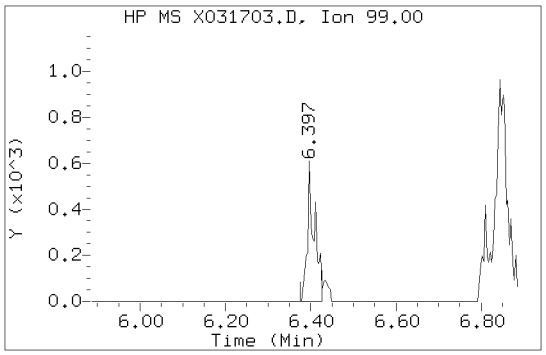

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LabSampID : VSTD000.5

Toluene-d8 (2037-26-5)

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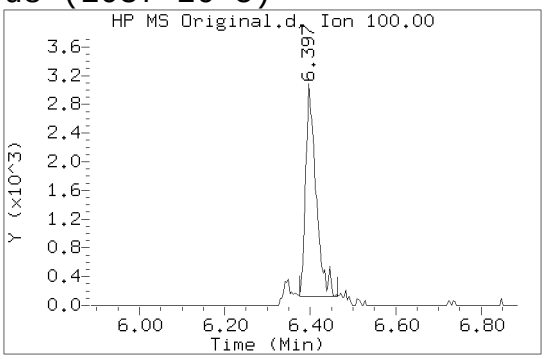

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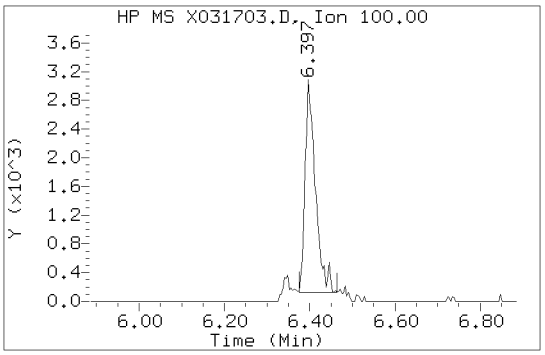

4-Bromofluorobenzene (460-00-4)

Reason Code:

BEFORE

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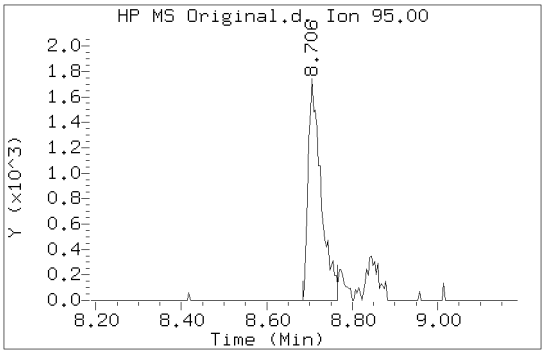

AFTER

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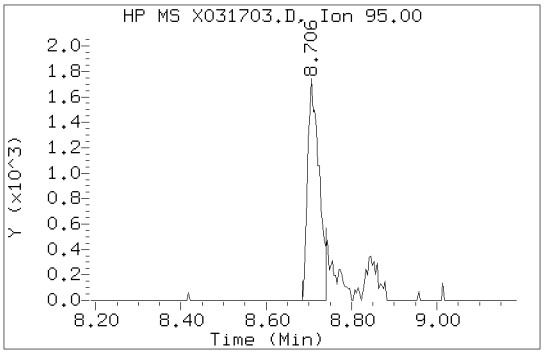

BEFORE

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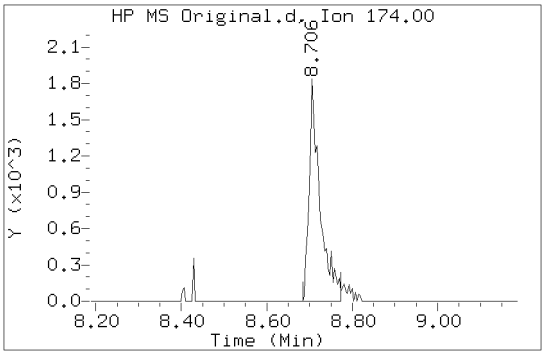

AFTER

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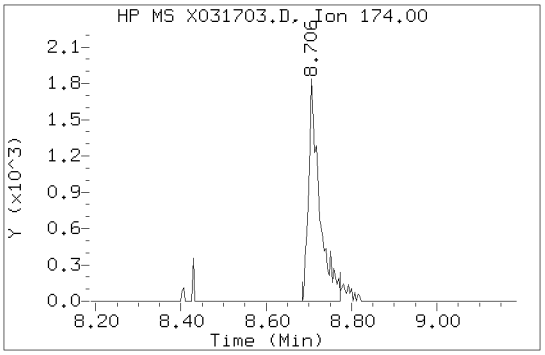

BEFORE

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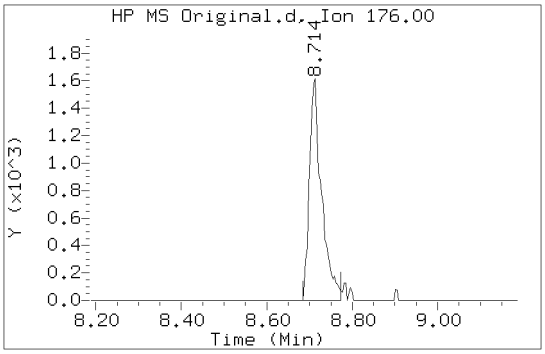

AFTER

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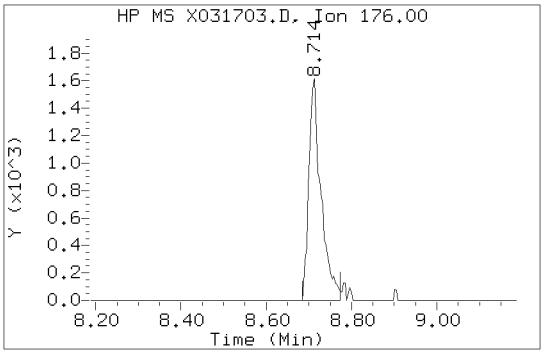

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Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
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Inj Date : 17-MAR-2023 12:32
Operator : PC Inst ID: voa6.i
Smp Info : VSTD001;VSTD001;1;3;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 12:11 Cal File: X031703.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.178	4.178	(1.000)	364329	50.0000	
2	Dichlorodifluoromethane	85	0.973	0.973	(0.233)	2581	1.00000	1.64
3	Chloromethane	50	1.077	1.077	(0.258)	3230	1.00000	0.96
4	Propionitrile	54	3.675	3.675	(0.880)	6068	10.0000	11.82(a)
5	Vinyl Chloride	62	1.141	1.141	(0.273)	2576	1.00000	0.89
6	Bromomethane	94	1.336	1.336	(0.320)	1662	1.00000	1.00
7	Chloroethane	64	1.407	1.407	(0.337)	2280	1.00000	1.12(M)
8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	3466	1.00000	1.01(M)
9	Acrolein	56	1.445	1.445	(0.346)	474	2.00000	5.33(aM)
11	1,1-Dichloroethene	96	1.910	1.910	(0.457)	2453	1.00000	1.12(M)
12	Isobutyl Alcohol	43	4.680	4.680	(1.120)	10398	20.0000	20.91(a)
13	Acetonitrile	39	2.202	2.202	(0.527)	3936	10.0000	11.60(a)
14	Allyl Chloride	41	2.206	2.206	(0.528)	9372	1.00000	1.11(aM)
15	Iodomethane	142	2.026	2.026	(0.485)	1627	2.00000	9.87(TM)
16	Acrylonitrile	53	2.577	2.577	(0.617)	2507	2.00000	2.06(M)
18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	12777	1.00000	1.10(M)
19	Carbon Disulfide	76	2.071	2.071	(0.496)	15617	2.00000	1.94(M)
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.607)	3296	1.00000	1.06
21	Vinyl Acetate	43	3.031	3.031	(0.725)	17097	2.00000	1.83(M)
22	1,1-Dichloroethane	63	2.929	2.929	(0.701)	5819	1.00000	1.04

23 Chloroprene	53	1.767	1.767 (0.423)	1110	1.00000	1.11(aM)
24 2-Butanone	43	3.664	3.664 (0.877)	2545	2.00000	1.95(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	25 Methacrylonitrile	41	3.851	3.851	(0.922)	3707	1.00000	1.10(a)
	26 2,2-Dichloropropane	77	3.514	3.514	(0.841)	4259	1.00000	0.71
	27 cis-1,2-Dichloroethene	96	3.537	3.537	(0.847)	3925	1.00000	1.05
	28 Chloroform	83	3.904	3.904	(0.935)	6512	1.00000	1.04
	29 Bromochloromethane	128	3.803	3.803	(0.910)	2274	1.00000	1.07
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	4629	1.00000	0.99
	32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	4436	1.00000	1.06
	33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	5038	1.00000	1.03
	34 Carbon Tetrachloride	117	4.256	4.256	(0.857)	4405	1.00000	1.10
$	35 1,2-Dichloroethane-d4	65	4.485	4.485	(1.074)	4794	1.00000	2.24(M)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	585447	50.0000	
	37 Benzene	78	4.515	4.515	(0.909)	15392	1.00000	1.06
	38 Trichloroethene	130	5.216	5.216	(1.051)	4000	1.00000	1.03(a)
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	5190	1.00000	1.01(aM)
	40 Methyl Methacrylate	41	5.625	5.625	(1.346)	3255	1.00000	1.00(a)
	41 2-Chloroethylvinyl ether	63	6.078	6.078	(1.224)	3065	2.00000	1.97(aM)
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	4197	1.00000	1.08(aM)
	43 2-Nitropropane	43	5.981	5.981	(1.432)	1281	1.00000	1.11(aMH)
	44 Dibromomethane	93	5.561	5.561	(1.120)	2580	1.00000	1.04(a)
	45 4-Methyl-2-Pentanone	43	6.344	6.344	(0.827)	6390	2.00000	1.81(a)
	46 cis-1,3-Dichloropropene	75	6.164	6.164	(1.242)	5979	1.00000	0.92(a)
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	557694	50.0000	
$	48 Toluene-d8	98	6.393	6.393	(0.834)	16213	1.00000	1.17(a)
	49 Ethyl Methacrylate	69	6.719	6.719	(1.353)	4689	1.00000	1.08(aM)
	50 Toluene	91	6.453	6.453	(0.842)	15109	1.00000	1.03(a)
	51 trans-1,3-Dichloropropene	75	6.697	6.697	(1.349)	5091	1.00000	0.95(aM)
	52 2-Hexanone	43	7.117	7.117	(0.928)	4286	2.00000	1.76(a)
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	3242	1.00000	1.01(a)
	54 1,3-Dichloropropane	76	6.985	6.985	(0.911)	6514	1.00000	1.03(a)
	55 Dibromochloromethane	129	7.180	7.180	(0.936)	4441	1.00000	0.98(a)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	2953	1.00000	1.00(a)
	57 1,2-Dibromoethane	107	7.270	7.270	(0.948)	3736	1.00000	0.95(a)
	58 1-Chlorohexane	55	7.701	7.701	(1.551)	3010	1.00000	3.26(a)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	10830	1.00000	1.03(a)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	3954	1.00000	0.98(a)
	61 Ethylbenzene	106	7.806	7.806	(1.018)	5432	1.00000	1.05(a)
	62 m,p-Xylenes	106	7.911	7.911	(1.032)	13391	2.00000	2.06(a)
	63 o-Xylene	106	8.245	8.245	(1.075)	6862	1.00000	1.05(a)
	64 Styrene	104	8.279	8.279	(1.080)	10253	1.00000	0.95(a)
	66 Bromoform	173	8.414	8.414	(1.097)	2861	1.00000	0.92(Ta)
	67 Isopropylbenzene	105	8.564	8.564	(1.117)	16205	1.00000	1.08(a)
	68 1,1,2,2-Tetrachloroethane	83	8.845	8.845	(0.915)	5298	1.00000	0.97(a)
$	69 4-Bromofluorobenzene	95	8.702	8.702	(1.135)	6673	1.00000	1.08(a)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	311948	50.0000	
	71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	4038	1.00000	0.98(a)
	72 trans-1,4-Dichloro-2-butene	53	8.923	8.923	(1.164)	1007	1.00000	1.33(a)
	73 n-Propylbenzene	91	8.920	8.920	(0.923)	17590	1.00000	1.01(a)
	74 Bromobenzene	156	8.818	8.818	(0.913)	5103	1.00000	1.01(a)
	75 1,3,5-Trimethylbenzene	105	9.077	9.077	(0.939)	14021	1.00000	1.04(a)
	76 2-Chlorotoluene	91	8.983	8.983	(0.930)	12773	1.00000	1.09(aM)
	77 4-Chlorotoluene	91	9.081	9.081	(0.940)	12573	1.00000	0.95(a)
	78 tert-Butylbenzene	119	9.339	9.339	(0.967)	11682	1.00000	1.09(a)

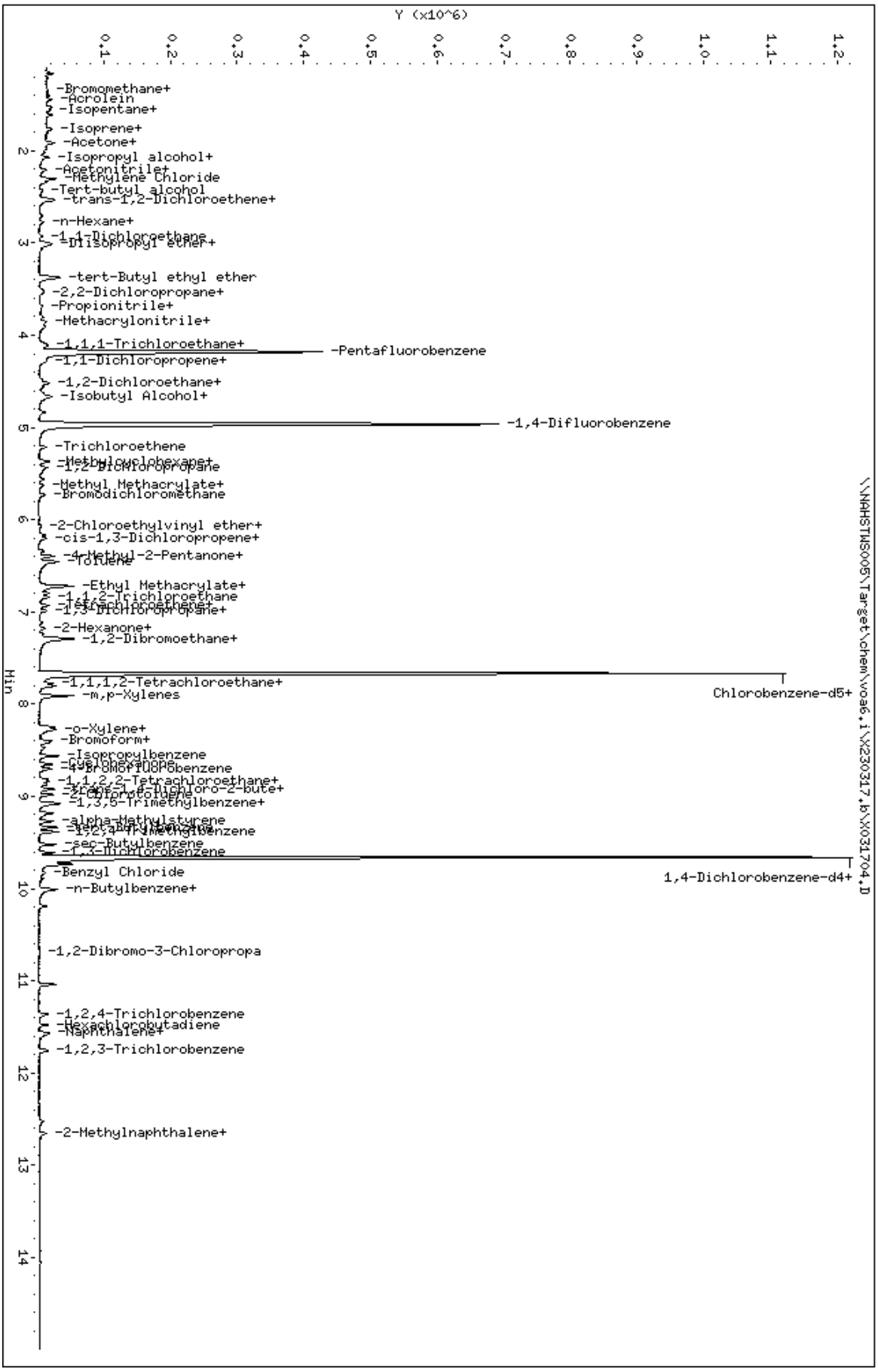
79 1,2,4-Trimethylbenzene	105	9.384	9.384 (0.971)	13929	1.00000	1.00(a)
81 sec-Butylbenzene	105	9.523	9.523 (0.986)	15472	1.00000	1.06(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
82	p-Isopropyltoluene	119	9.654	9.654	(0.999)	12841	1.00000	0.99(a)
83	1,3-Dichlorobenzene	146	9.613	9.613	(0.995)	8638	1.00000	0.99(a)
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	9909	1.00000	1.06(a)
86	Benzyl Chloride	91	9.831	9.831	(1.282)	6470	1.00000	2.25(aM)
87	n-Butylbenzene	91	10.014	10.014	(1.036)	10261	1.00000	0.98(a)
88	1,2-Dichlorobenzene	146	10.007	10.007	(1.036)	8419	1.00000	0.97(a)
89	1,2-Dibromo-3-Chloropropane	155	10.685	10.685	(1.106)	779	1.00000	2.23(aM)
90	1,2,4-Trichlorobenzene	180	11.368	11.368	(1.177)	5456	1.00000	0.86(a)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	2560	1.00000	2.85(a)
92	Naphthalene	128	11.574	11.574	(1.198)	13748	1.00000	0.90(a)
93	1,2,3-Trichlorobenzene	180	11.754	11.754	(1.216)	5673	1.00000	0.93(a)
146	Methyl acetate	43	2.251	2.251	(0.539)	1632	1.00000	0.77(a)
138	Freon TF	101	1.917	1.917	(0.459)	2078	1.00000	2.25(aM)
141	Cyclohexane	56	4.125	4.125	(0.987)	3748	1.00000	2.72(aM)
142	Tetrahydrofuran	42	3.866	3.866	(0.926)	1179	2.00000	1.98(aM)
147	Methylcyclohexane	55	5.366	5.366	(1.081)	7595	1.00000	0.93(aM)
135	1,4-Dioxane	88	5.625	5.625	(1.346)	953	20.0000	19.71(aM)
132	n-Butanol	56	5.366	5.366	(1.284)	1715	20.0000	49.33(aM)
131	Methyl Acrylate	55	3.758	3.758	(0.900)	3267	1.00000	0.86(aM)
133	Ethyl Acrylate	55	5.366	5.366	(1.284)	8164	1.00000	1.02(M)
136	n-Hexane	57	2.776	2.776	(0.664)	2771	1.00000	1.64(aM)
139	Diethyl ether	59	1.756	1.756	(0.420)	2934	1.00000	1.20(aM)
148	Tert-butyl alcohol	59	2.431	2.431	(0.582)	6630	20.0000	17.37
149	Isopropyl alcohol	45	2.101	2.101	(0.503)	3783	20.0000	18.55(T)
156	Diisopropyl ether	45	3.001	3.001	(0.718)	13564	1.00000	1.19(Ta)
160	2-Methylnaphthalene	142	12.657	12.657	(1.310)	5189	1.00000	0.68(a)
166	1,2,3-Trimethylbenzene	105	9.733	9.733	(1.007)	17375	1.00000	1.16(aM)
167	Ethanol	45	1.704	1.704	(0.408)	656	20.0000	20.07(M)
172	tert-Butyl formate	59	4.627	4.627	(1.108)	5691	2.00000	1.91(aM)
173	3,3-Dimethyl-1-butanol	57	7.293	7.293	(0.951)	9512	20.0000	22.13(M)
174	tert-Amyl methyl ether	73	4.665	4.665	(1.117)	14951	1.00000	1.14(aM)
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.808)	13706	1.00000	1.15(aM)
176	tert-Amyl alcohol	59	4.627	4.627	(1.108)	6256	20.0000	20.06
151	4-Methyl-2-pentanol	45	6.719	6.719	(1.353)	18895	20.0000	22.11(M)
180	1-Methylnaphthalene	142	12.657	12.657	(1.310)	5189	1.00000	(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	2590	1.00000	1.04(a)
152	Amyl alcohol	42	6.978	6.978	(0.910)	1880	20.0000	18.70(M)
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	5093	1.00000	1.12(M)
159	Propylene oxide	43	1.812	1.812	(0.434)	432	2.00000	1.90(aM)
161	3-Methyl-1-butanol	55	6.952	6.952	(0.907)	1791	20.0000	18.40(M)
162	Butyl acrylate	55	8.275	8.275	(1.079)	9286	1.00000	1.12(a)
182	Epichlorohydrin	57	6.116	6.116	(1.232)	1658	4.00000	4.96(aM)
M 94	1,2-Dichloroethylene (total)	96				7221	2.00000	(a)
130	Ethyl Acetate	43	3.690	3.690	(0.883)	3592	1.00000	0.95(aM)
134	Cyclohexanone	55	8.650	8.650	(0.895)	3987	20.0000	21.52(aM)
185	Isoprene	39	1.775	1.775	(0.425)	823	1.00000	1.17(a)
188	Isopropyl acetate	43	4.680	4.680	(0.943)	11803	1.00000	1.11(a)
187	n-Amyl acetate	43	8.474	8.474	(1.105)	6908	1.00000	0.99(aM)
189	n-Butyl acetate	43	7.237	7.237	(0.944)	5102	1.00000	0.86(a)
150	Allyl alcohol	57	2.776	2.776	(0.664)	2361	20.0000	28.41(M)
195	Methyl Amyl Ketone	43	8.399	8.399	(1.095)	9932	1.00000	1.12(aM)
200	Dimethyl Disulfide	94	6.209	6.209	(0.810)	6718	1.00000	0.91(aM)

202 Isobutylene	41	1.239	1.239 (0.297)	321	1.00000	1.05(aM)
205 2-Ethylhexyl Acrylate	55	11.562	11.562 (1.197)	4375	1.00000	0.95(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Date : 17-MAR-2023 12:32
Client ID: VSTD001
Sample Info: VSTD001;VSTD001;1;3;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

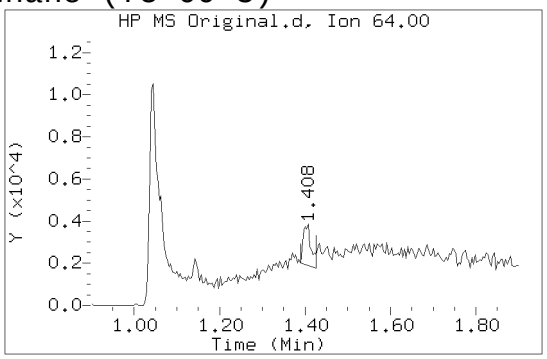
\\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

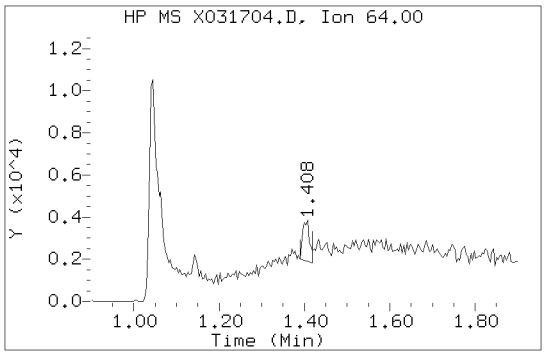
Chloroethane (75-00-3)

Reason Code:

BEFORE
MASS
64
AREA
2583
HEIGHT
1976
30-Mar-2023
12:33
linh
pham



AFTER
MASS
64
AREA
2280
HEIGHT
1975
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
66
AREA
723
HEIGHT
645
30-Mar-2023
12:33
linh
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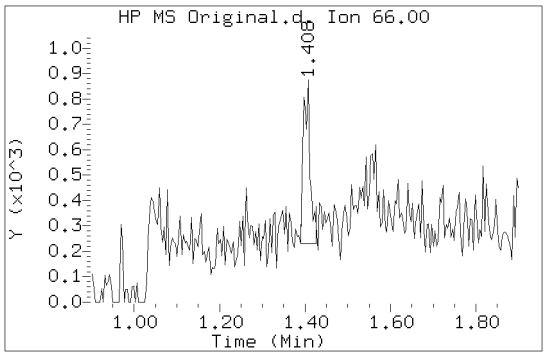

AFTER
MASS
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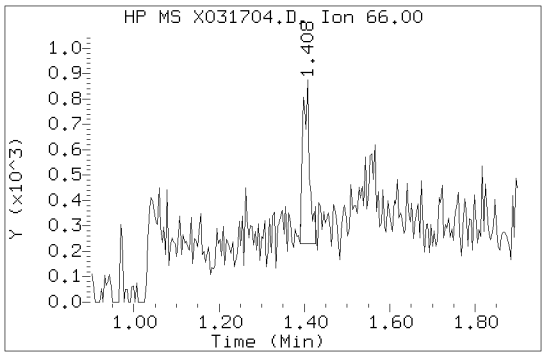
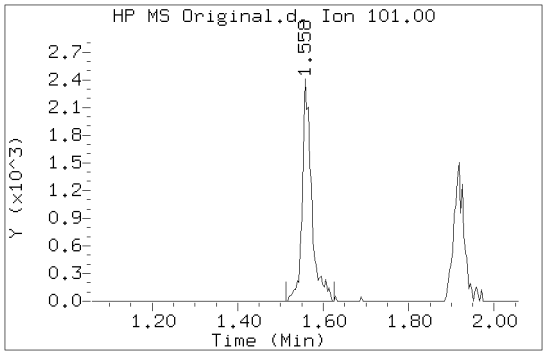
AREA
723
HEIGHT
645
30-Mar-2023
12:41
linh
pham



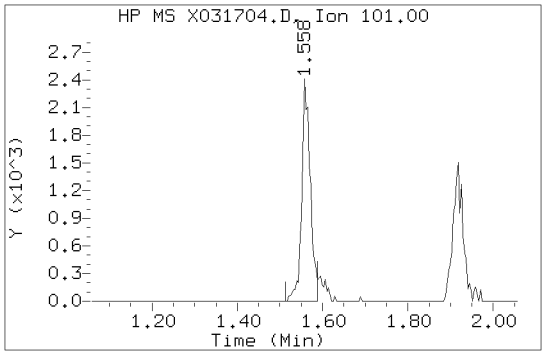
Trichlorofluoromethane (75-69-4)

Reason Code:

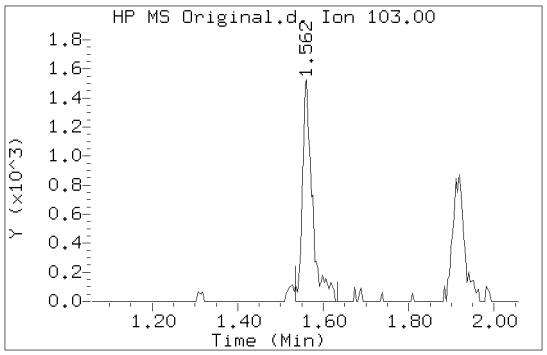
BEFORE
MASS
101
AREA
3783
HEIGHT
2410
30-Mar-2023
12:33
linh
pham



AFTER
MASS
101
AREA
3466
HEIGHT
2410
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
103
AREA
2518
HEIGHT
1526
30-Mar-2023
12:33
linh
pham



AFTER
MASS
103
AREA
2518
HEIGHT
1526
30-Mar-2023
12:41
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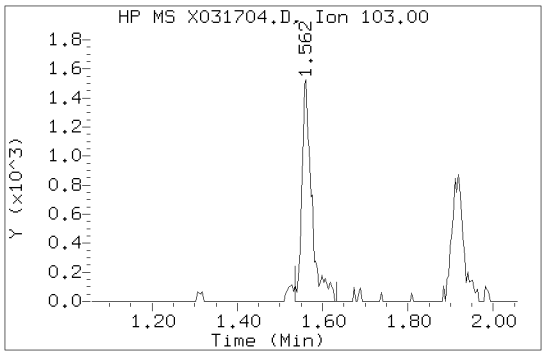

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Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Acetone (67-64-1)

Reason Code:

BEFORE

MASS
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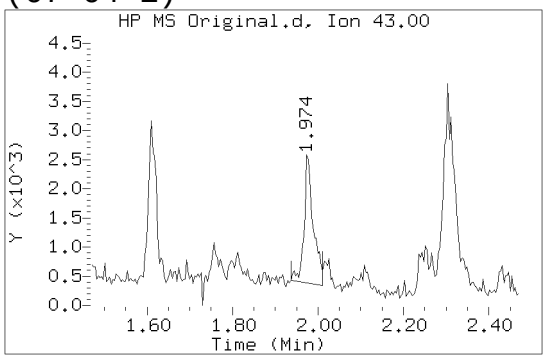
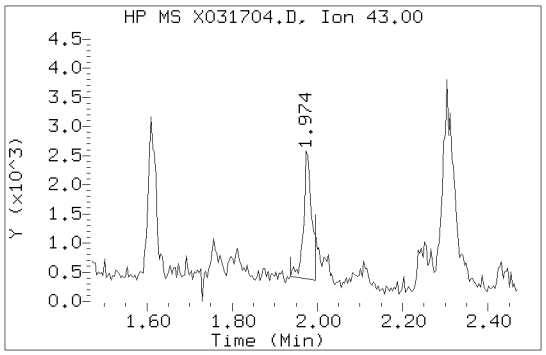
AREA
3360
HEIGHT
2198
30-Mar-2023
12:33
linh
pham



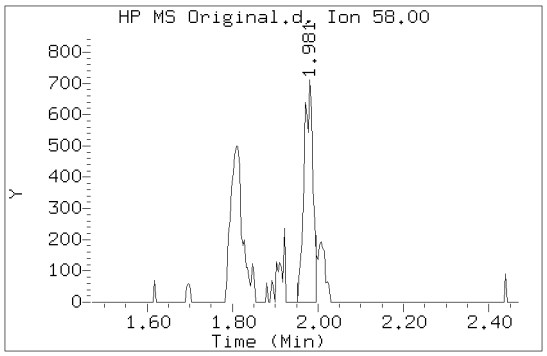
AFTER

MASS
43
AREA
2978
HEIGHT
2197
30-Mar-2023
12:41
linh
pham



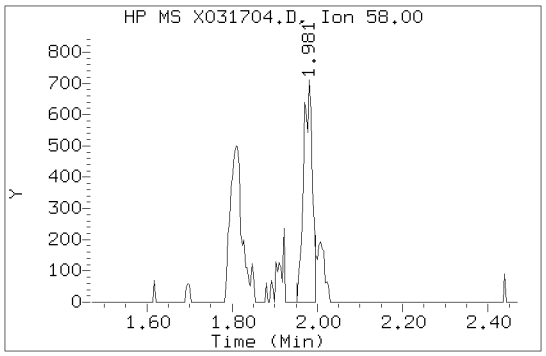
BEFORE

MASS
58
AREA
1051
HEIGHT
711
30-Mar-2023
12:33
linh
pham



AFTER

MASS
58
AREA
1051
HEIGHT
711
30-Mar-2023
12:41
linh
pham

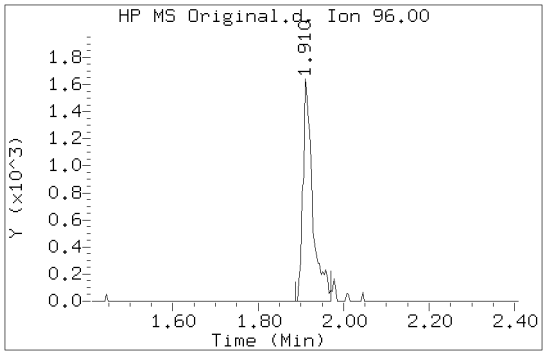


1,1-Dichloroethene (75-35-4)

Reason Code:

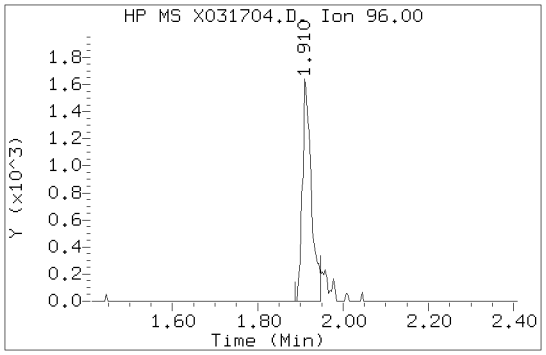
BEFORE

MASS
96
AREA
2667
HEIGHT
1642
30-Mar-2023
12:33
linh
pham



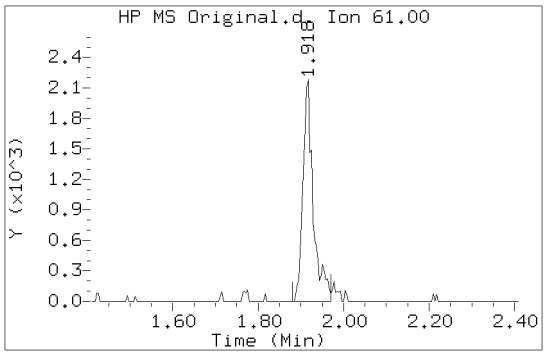
AFTER

MASS
96
AREA
2453
HEIGHT
1642
30-Mar-2023
12:41
linh
pham



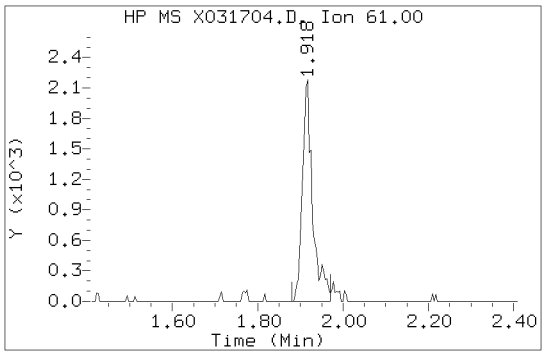
BEFORE

MASS
61
AREA
3712
HEIGHT
2181
30-Mar-2023
12:33
linh
pham



AFTER

MASS
61
AREA
3712
HEIGHT
2181
30-Mar-2023
12:41
linh
pham



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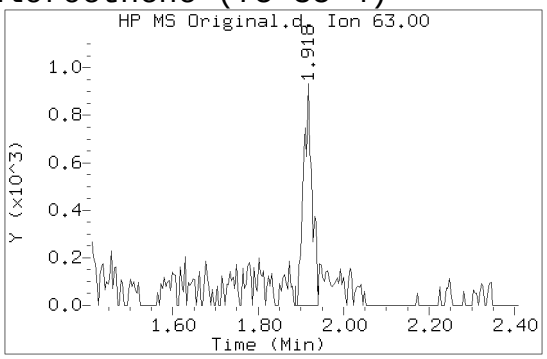
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,1-Dichloroethene (75-35-4)

Reason Code:

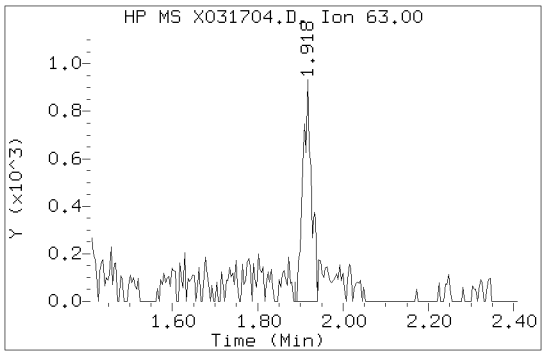
BEFORE

MASS
63
AREA
1331
HEIGHT
933
30-Mar-2023
12:33
linh
pham



AFTER

MASS
63
AREA
1331
HEIGHT
933
30-Mar-2023
12:41
linh
pham

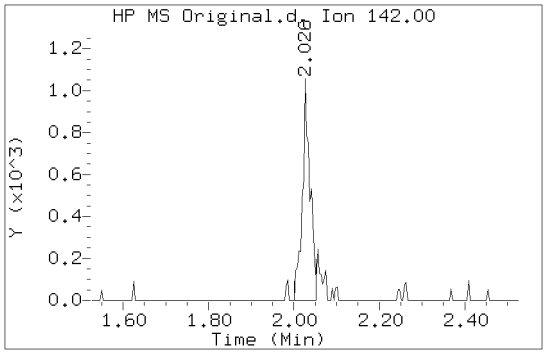


Iodomethane (74-88-4)

Reason Code:

BEFORE

MASS
142
AREA
1366
HEIGHT
1057
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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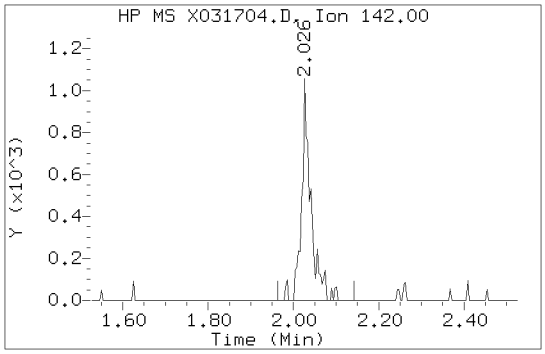
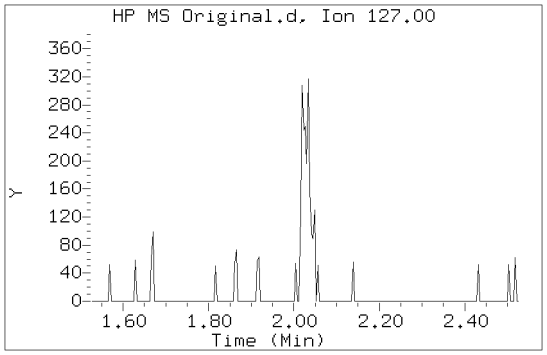
AREA
1627
HEIGHT
1057
30-Mar-2023
12:41
linh
pham



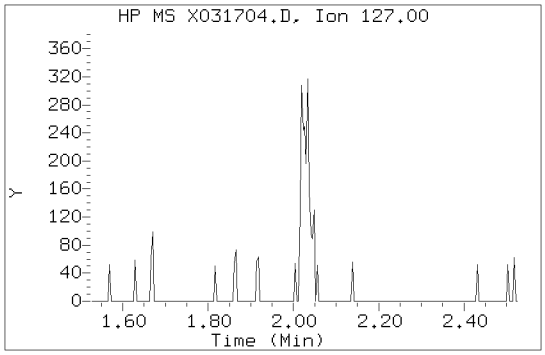
BEFORE

MASS
127
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



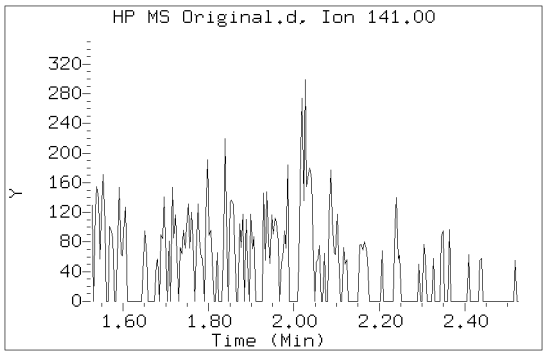
AFTER

MASS
127
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



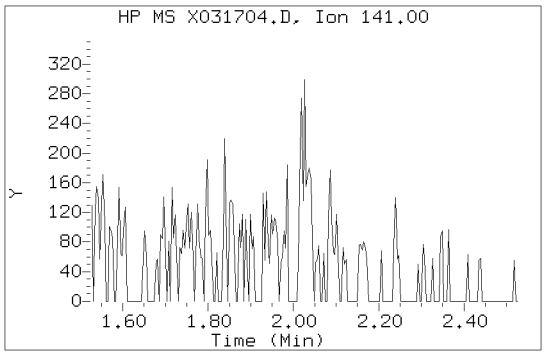
BEFORE

MASS
141
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
141
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



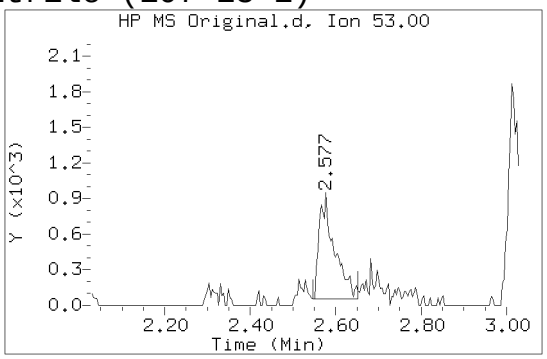
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Acrylonitrile (107-13-1)

Reason Code:

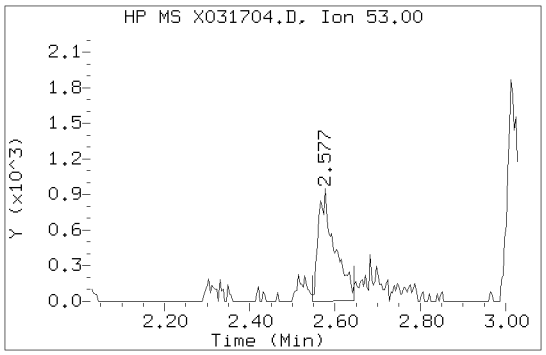
BEFORE

MASS
53
AREA
2233
HEIGHT
896
30-Mar-2023
12:33
linh
pham



AFTER

MASS
53
AREA
2507
HEIGHT
949
30-Mar-2023
12:41
linh
pham



BEFORE

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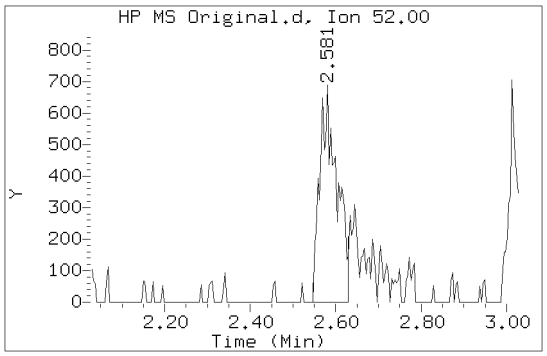
AREA
1908
HEIGHT
690
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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AREA
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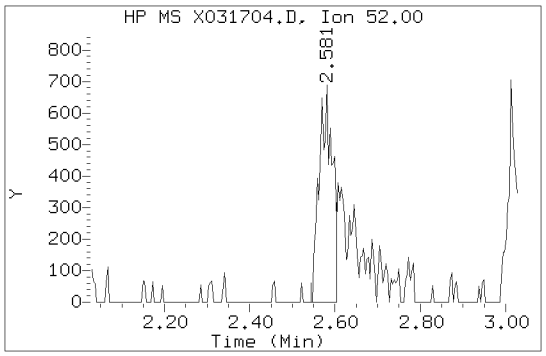
HEIGHT
690
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
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AREA
2720
HEIGHT
1466
30-Mar-2023
12:33
linh
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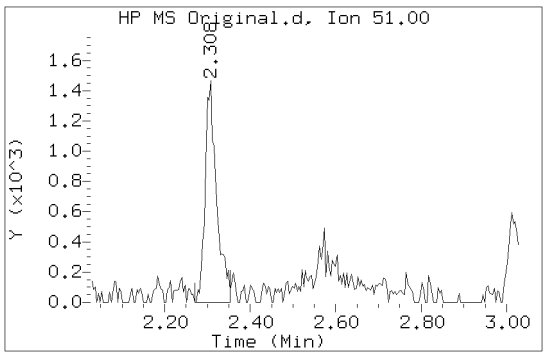
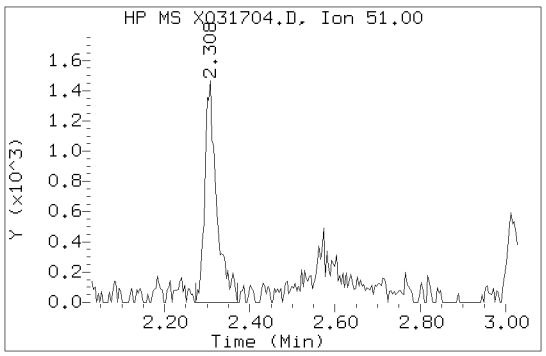


AFTER

MASS
51
AREA
2836
HEIGHT
1466
30-Mar-2023
12:41
linh
pham



Methylene Chloride (75-09-2)

Reason Code:

BEFORE

MASS
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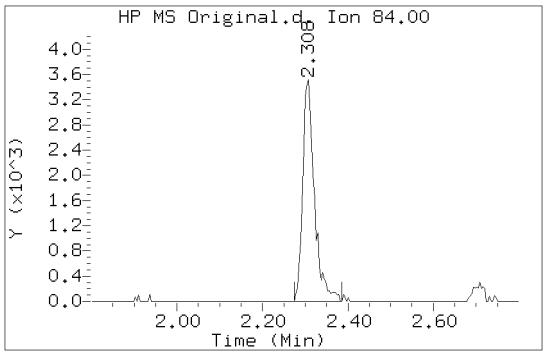
AREA
6838
HEIGHT
3518
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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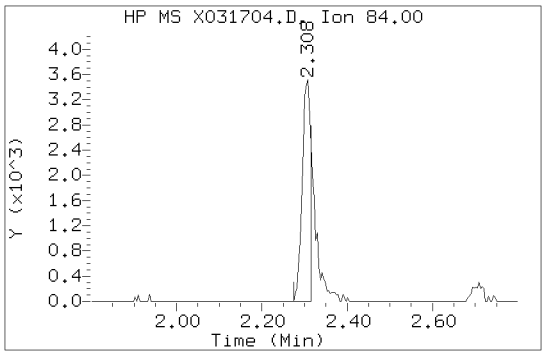
AREA
4854
HEIGHT
3518
30-Mar-2023
12:41
linh
pham



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Methylene Chloride (75-09-2)

Reason Code:

BEFORE
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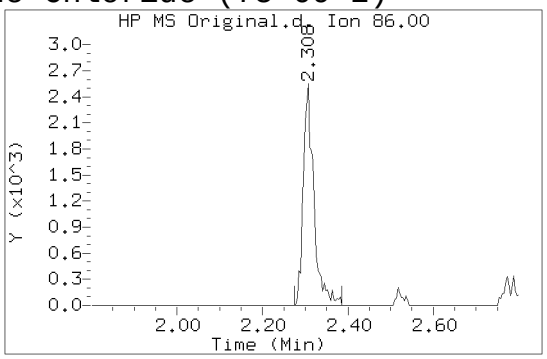
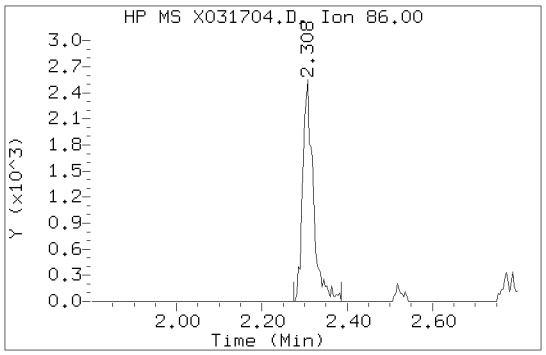
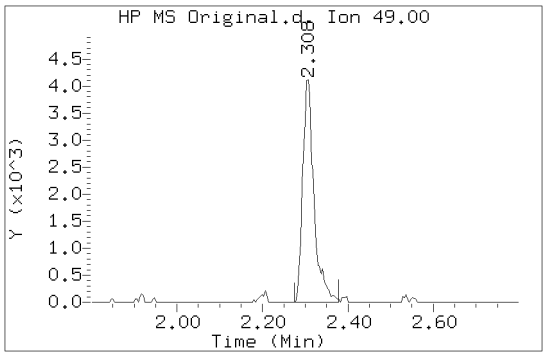
AREA
4483
HEIGHT
2551
30-Mar-2023
12:33
linh
pham



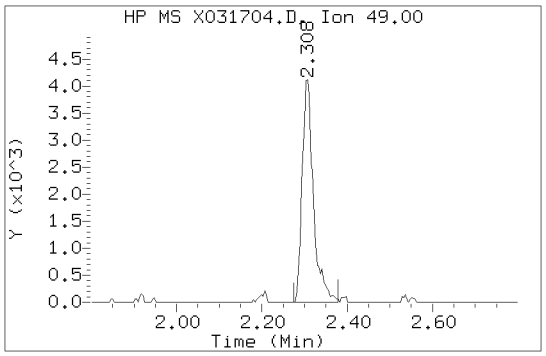
AFTER
MASS
86
AREA
4483
HEIGHT
2551
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
49
AREA
7704
HEIGHT
4113
30-Mar-2023
12:33
linh
pham



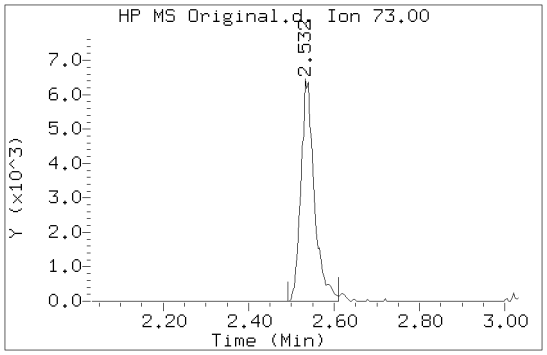
AFTER
MASS
49
AREA
7704
HEIGHT
4113
30-Mar-2023
12:41
linh
pham



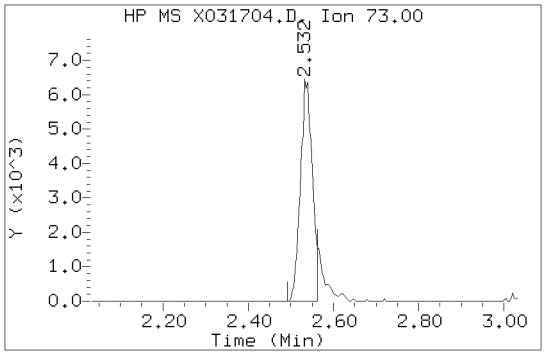
Methyl tert-butyl ether (1634-04-4)

Reason Code:

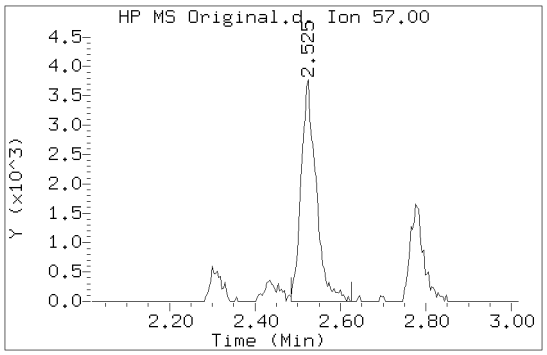
BEFORE
MASS
73
AREA
14389
HEIGHT
6459
30-Mar-2023
12:33
linh
pham



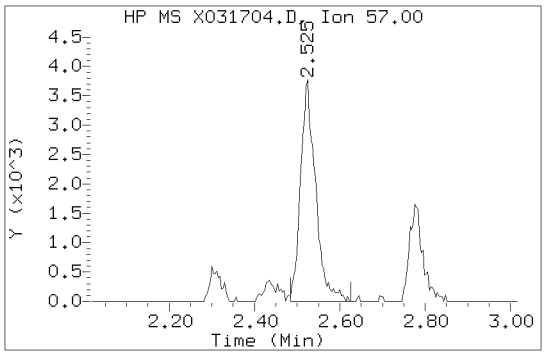
AFTER
MASS
73
AREA
12777
HEIGHT
6459
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
57
AREA
9359
HEIGHT
3774
30-Mar-2023
12:33
linh
pham



AFTER
MASS
57
AREA
9359
HEIGHT
3774
30-Mar-2023
12:41
linh
pham

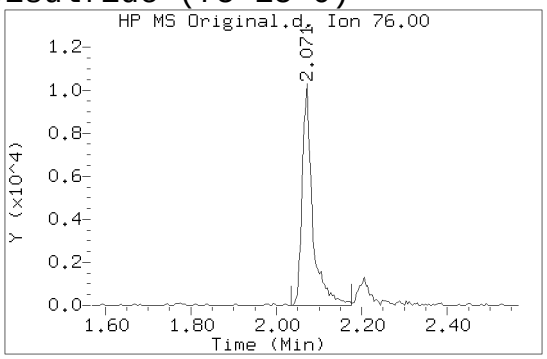


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

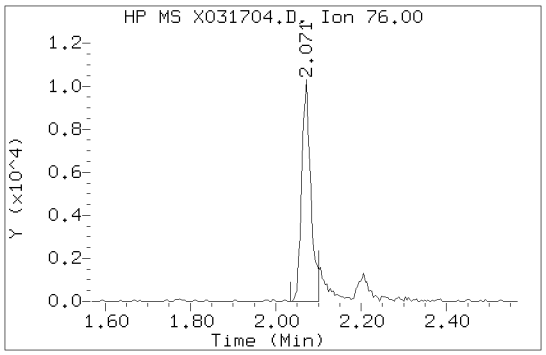
Carbon Disulfide (75-15-0)

Reason Code:

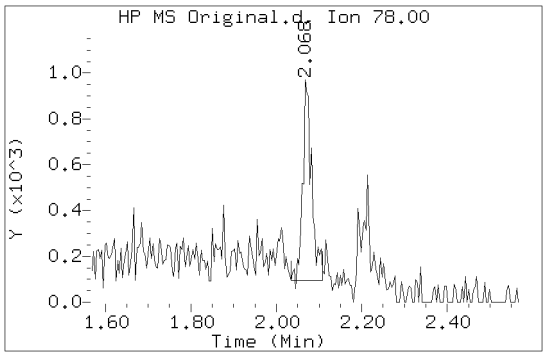
BEFORE
MASS
76
AREA
17735
HEIGHT
10310
30-Mar-2023
12:33
linh
pham



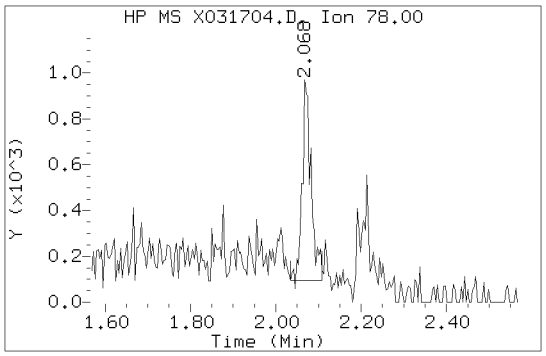
AFTER
MASS
76
AREA
15617
HEIGHT
10310
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
78
AREA
1293
HEIGHT
874
30-Mar-2023
12:33
linh
pham



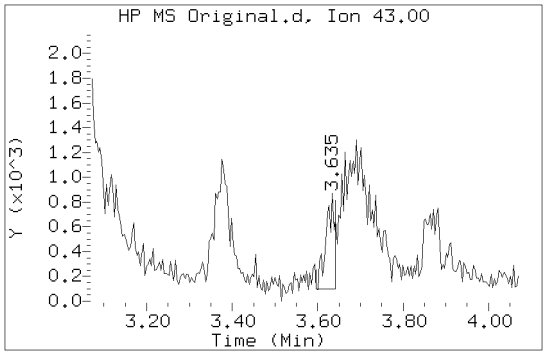
AFTER
MASS
78
AREA
1293
HEIGHT
874
30-Mar-2023
12:41
linh
pham



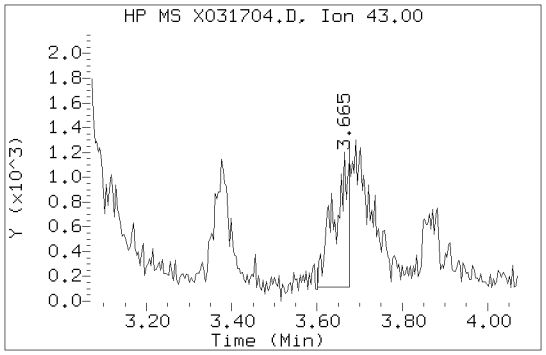
2-Butanone (78-93-3)

Reason Code:

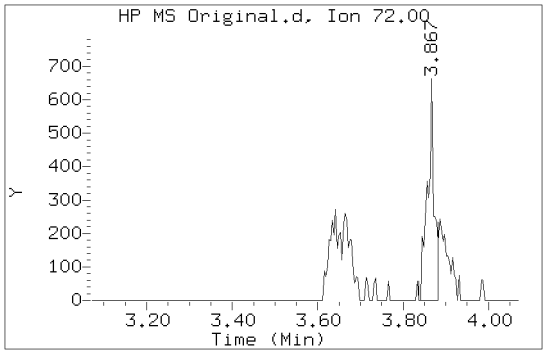
BEFORE
MASS
43
AREA
1071
HEIGHT
774
30-Mar-2023
12:33
linh
pham



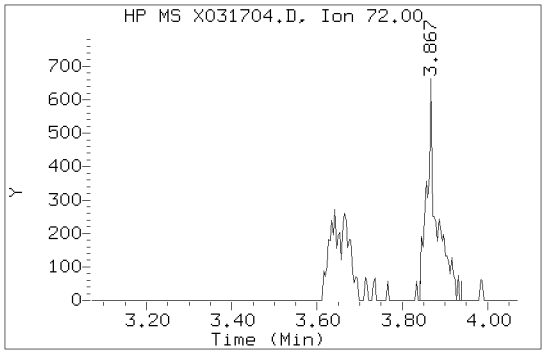
AFTER
MASS
43
AREA
2545
HEIGHT
1088
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
72
AREA
721
HEIGHT
663
30-Mar-2023
12:33
linh
pham



AFTER
MASS
72
AREA
1089
HEIGHT
663
30-Mar-2023
12:41
linh
pham



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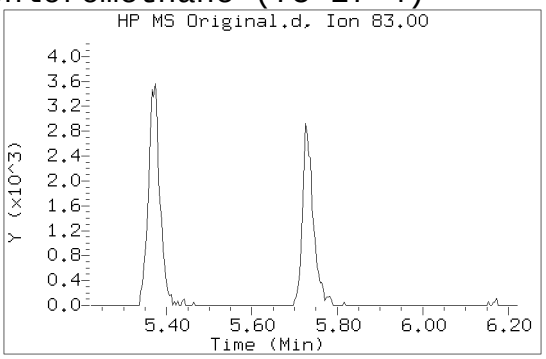
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

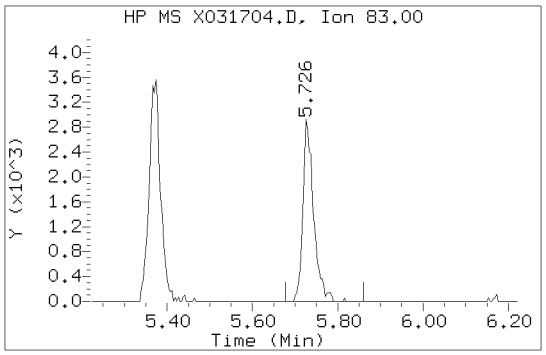
BEFORE

MASS
83
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



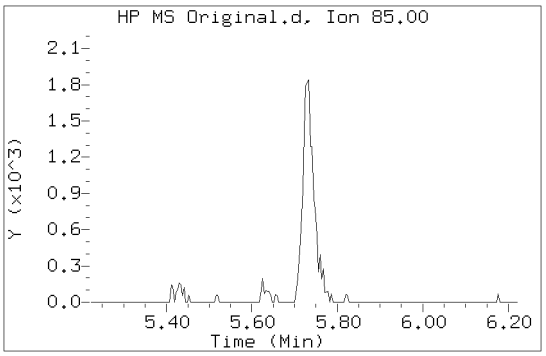
AFTER

MASS
83
AREA
5190
HEIGHT
2922
30-Mar-2023
12:41
linh
pham



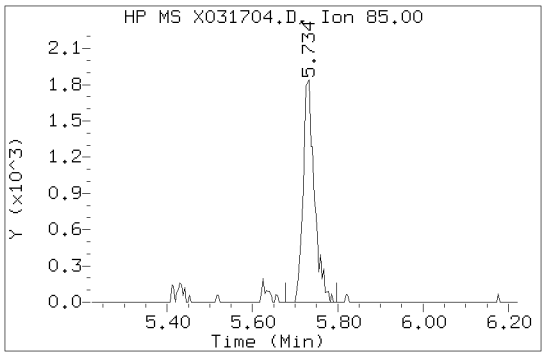
BEFORE

MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



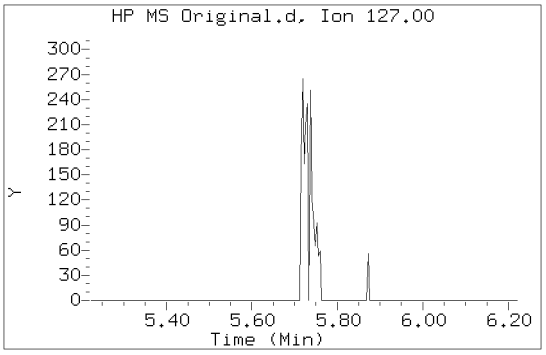
AFTER

MASS
85
AREA
3444
HEIGHT
1839
30-Mar-2023
12:41
linh
pham



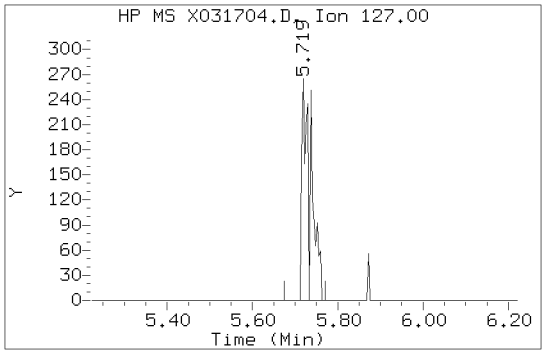
BEFORE

MASS
127
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
127
AREA
399
HEIGHT
265
30-Mar-2023
12:41
linh
pham

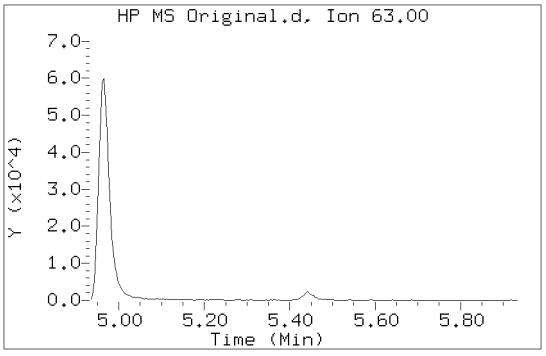


1,2-Dichloropropane (78-87-5)

Reason Code:

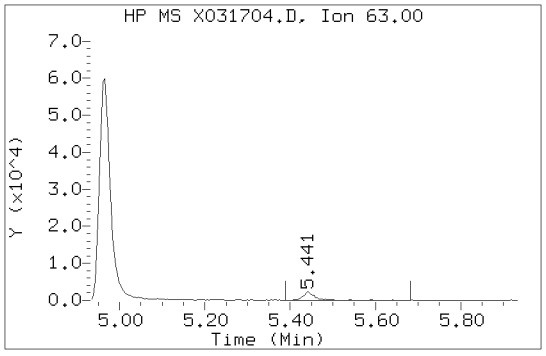
BEFORE

MASS
63
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
63
AREA
4197
HEIGHT
2459
30-Mar-2023
12:41
linh
pham



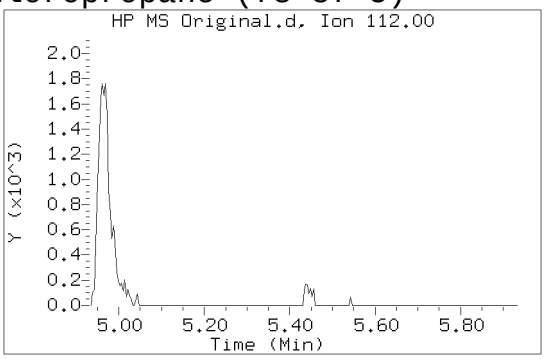
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,2-Dichloropropane (78-87-5)

Reason Code:

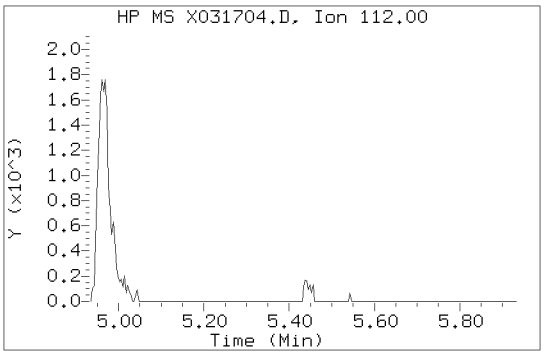
BEFORE

MASS
112
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
112
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

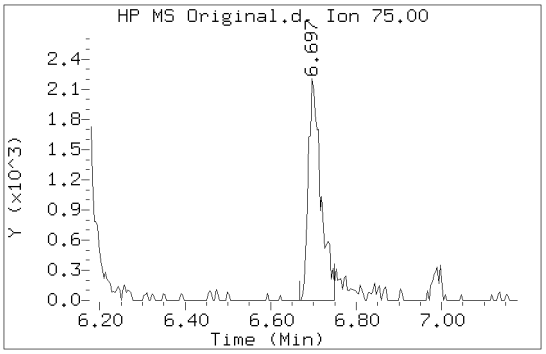


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

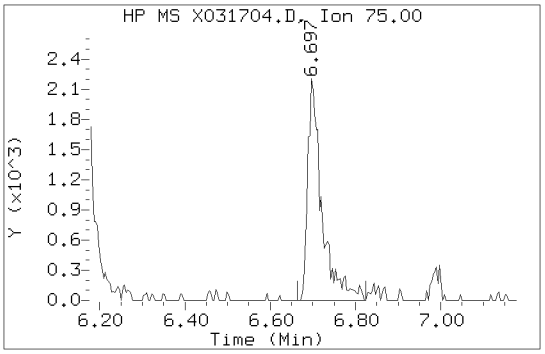
BEFORE

MASS
75
AREA
4512
HEIGHT
2206
30-Mar-2023
12:33
linh
pham



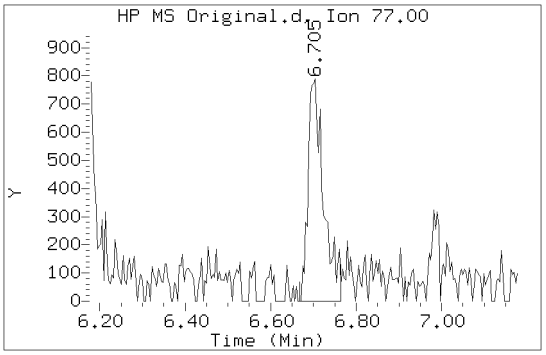
AFTER

MASS
75
AREA
5091
HEIGHT
2206
30-Mar-2023
12:41
linh
pham



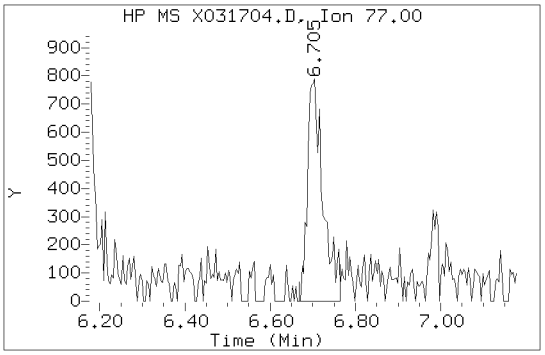
BEFORE

MASS
77
AREA
1993
HEIGHT
789
30-Mar-2023
12:33
linh
pham



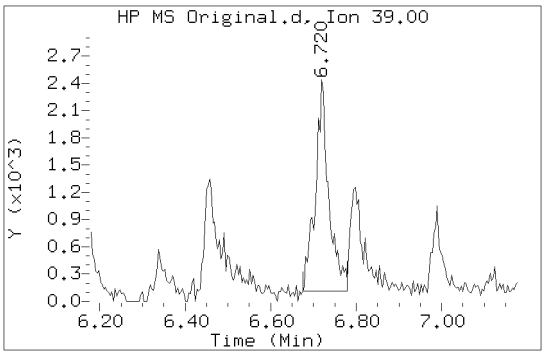
AFTER

MASS
77
AREA
1993
HEIGHT
789
30-Mar-2023
12:41
linh
pham



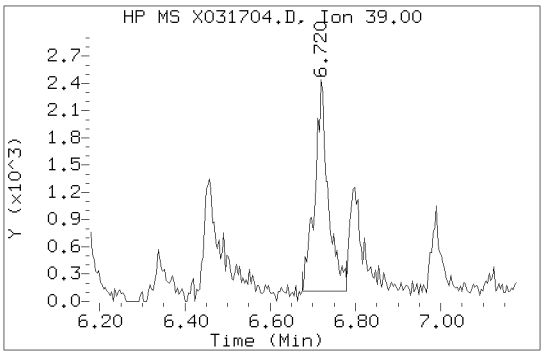
BEFORE

MASS
39
AREA
5092
HEIGHT
2329
30-Mar-2023
12:33
linh
pham



AFTER

MASS
39
AREA
5092
HEIGHT
2329
30-Mar-2023
12:41
linh
pham



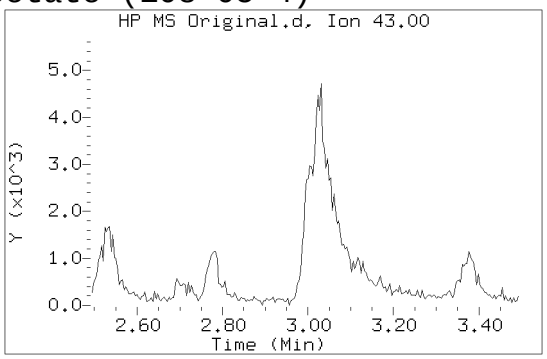
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Vinyl Acetate (108-05-4)

Reason Code:

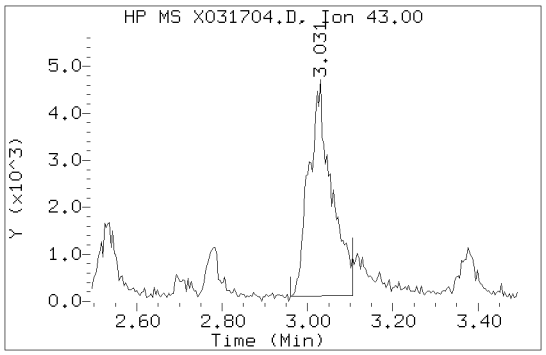
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



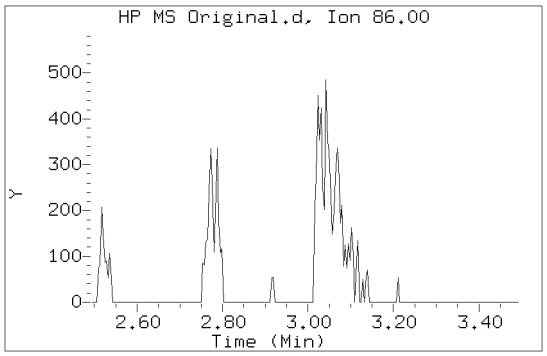
AFTER

MASS
43
AREA
17097
HEIGHT
4603
30-Mar-2023
12:41
linh
pham



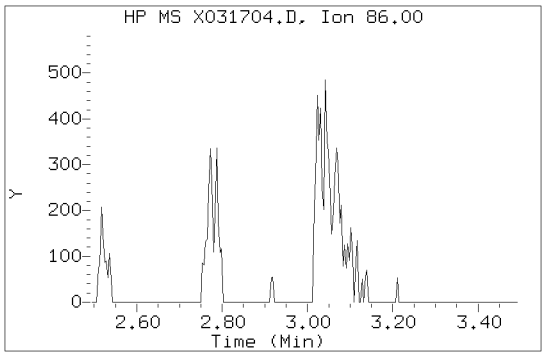
BEFORE

MASS
86
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
86
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

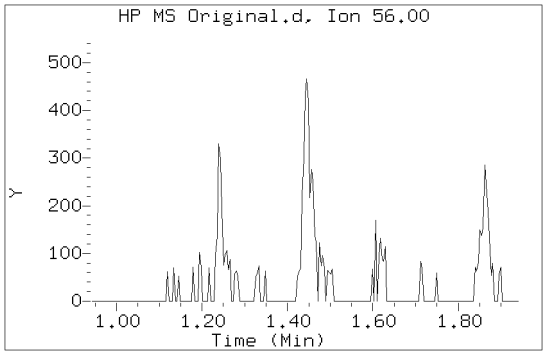


Acrolein (107-02-8)

Reason Code:

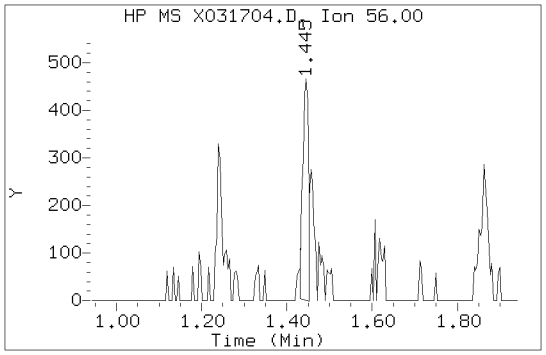
BEFORE

MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



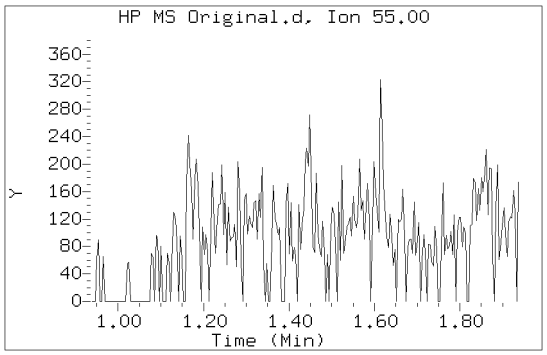
AFTER

MASS
56
AREA
474
HEIGHT
464
30-Mar-2023
12:41
linh
pham



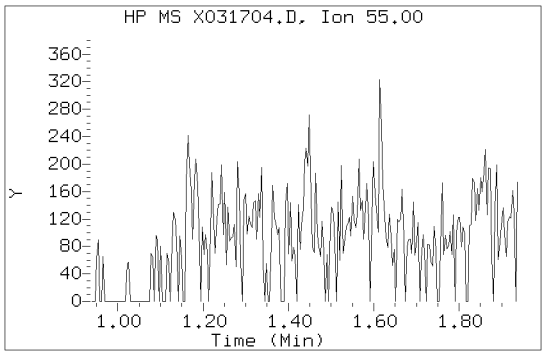
BEFORE

MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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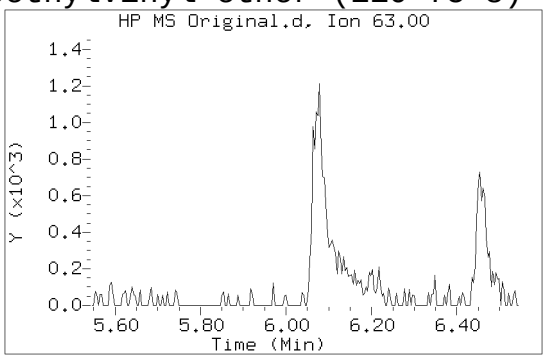
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

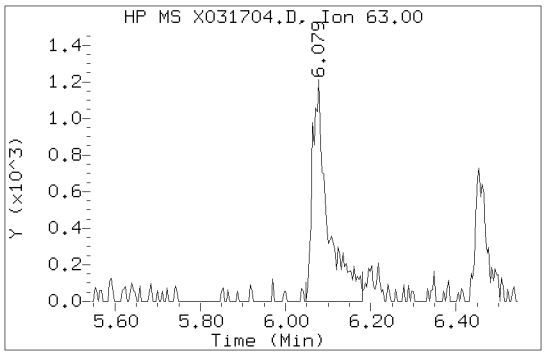
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

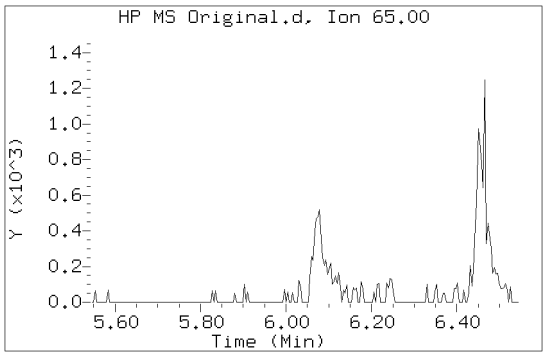
BEFORE
MASS
63
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
63
AREA
3065
HEIGHT
1212
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
65
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
65
AREA
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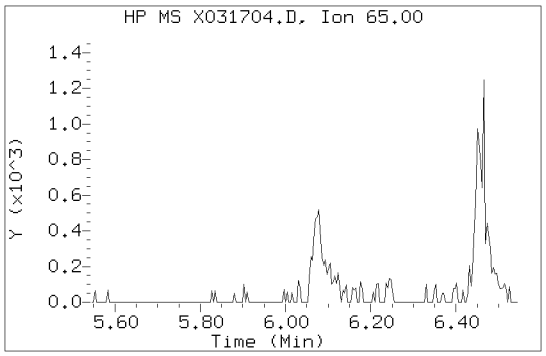
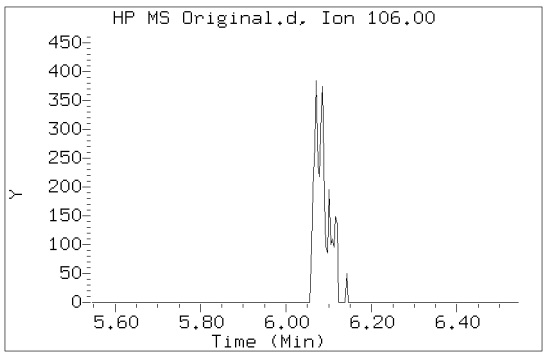
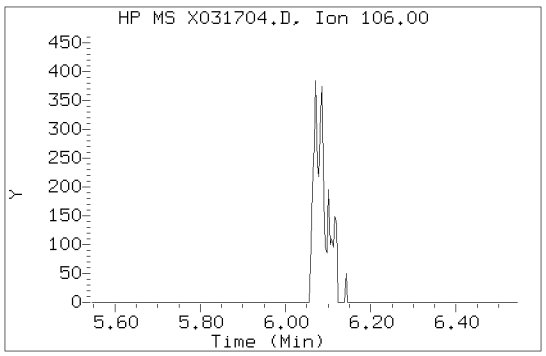
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
106
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



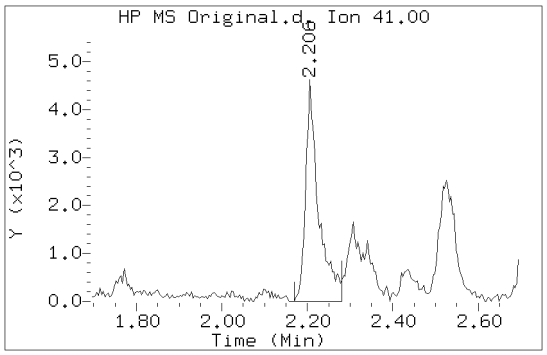
AFTER
MASS
106
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



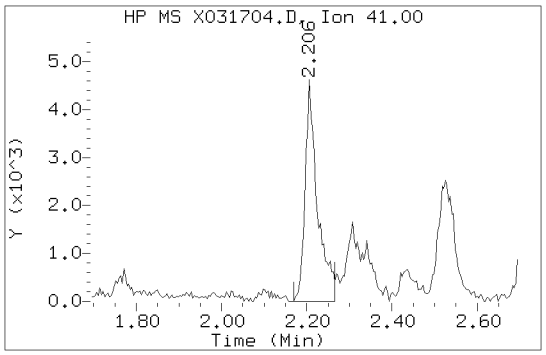
Allyl Chloride (107-05-1)

Reason Code:

BEFORE
MASS
41
AREA
9810
HEIGHT
4624
30-Mar-2023
12:33
linh
pham



AFTER
MASS
41
AREA
9372
HEIGHT
4624
30-Mar-2023
12:41
linh
pham



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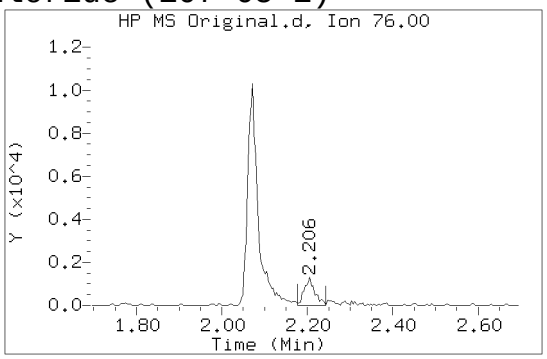
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Allyl Chloride (107-05-1)

Reason Code:

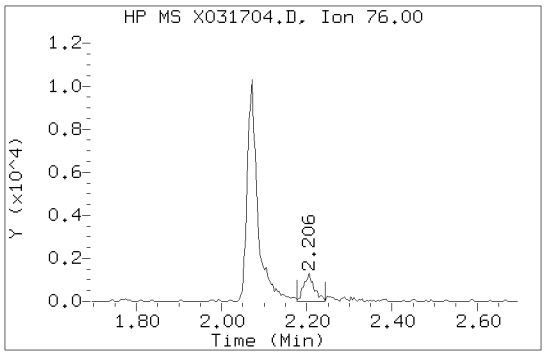
BEFORE

MASS
76
AREA
2238
HEIGHT
1301
30-Mar-2023
12:33
linh
pham



AFTER

MASS
76
AREA
2238
HEIGHT
1301
30-Mar-2023
12:41
linh
pham

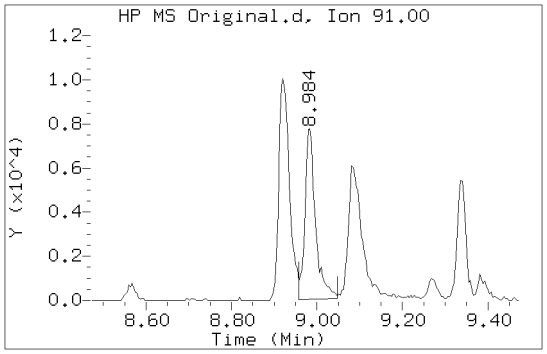


2-Chlorotoluene (95-49-8)

Reason Code:

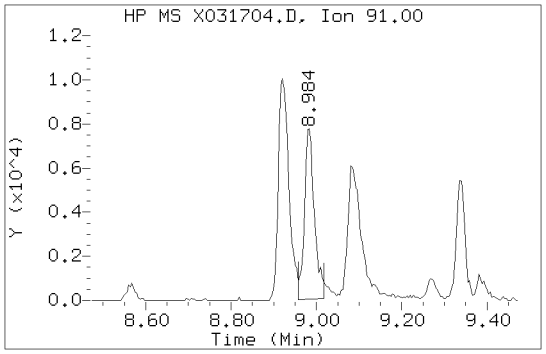
BEFORE

MASS
91
AREA
13436
HEIGHT
7740
30-Mar-2023
12:33
linh
pham



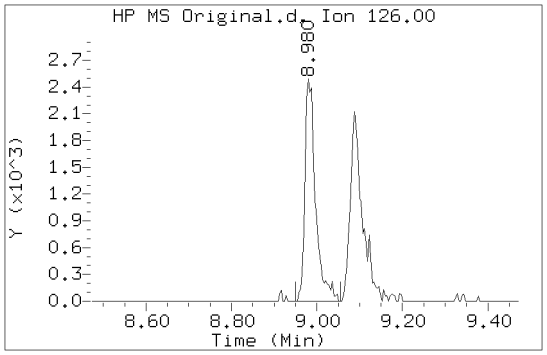
AFTER

MASS
91
AREA
12773
HEIGHT
7740
30-Mar-2023
12:41
linh
pham



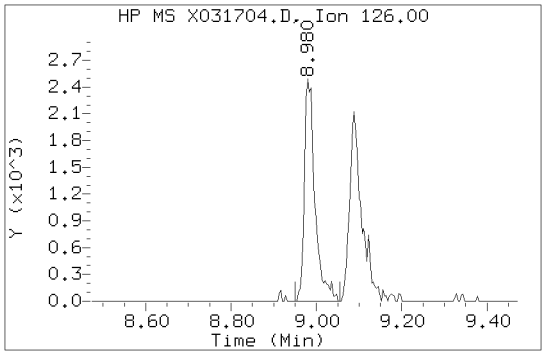
BEFORE

MASS
126
AREA
4377
HEIGHT
2491
30-Mar-2023
12:33
linh
pham



AFTER

MASS
126
AREA
4377
HEIGHT
2491
30-Mar-2023
12:41
linh
pham

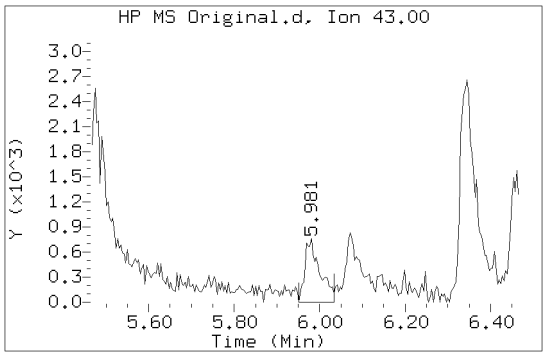


2-Nitropropane (79-46-9)

Reason Code:

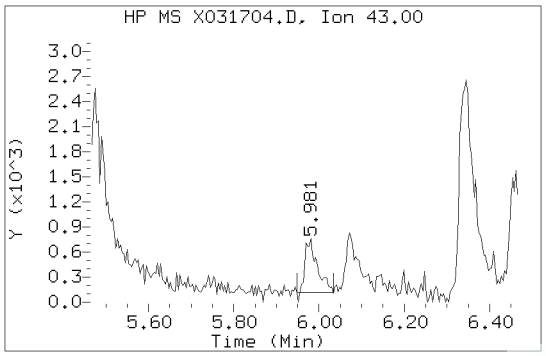
BEFORE

MASS
43
AREA
1865
HEIGHT
764
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
AREA
1281
HEIGHT
651
30-Mar-2023
12:41
linh
pham



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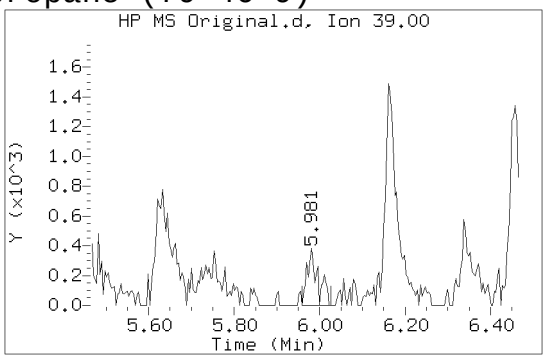
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

2-Nitropropane (79-46-9)

Reason Code:

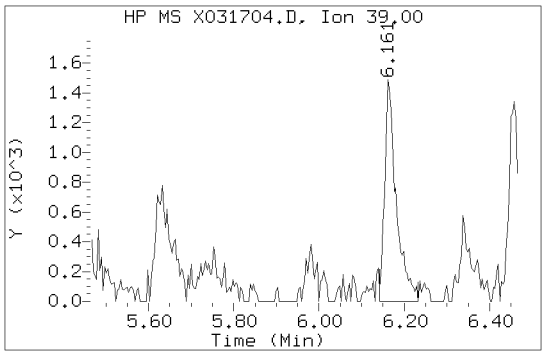
BEFORE

MASS
39
AREA
685
HEIGHT
382
30-Mar-2023
12:33
linh
pham



AFTER

MASS
39
AREA
2792
HEIGHT
1489
30-Mar-2023
12:41
linh
pham

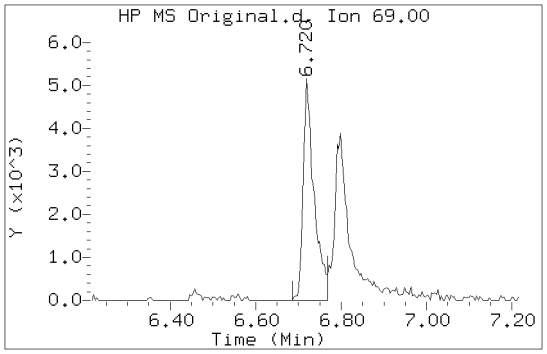


Ethyl Methacrylate (97-63-2)

Reason Code:

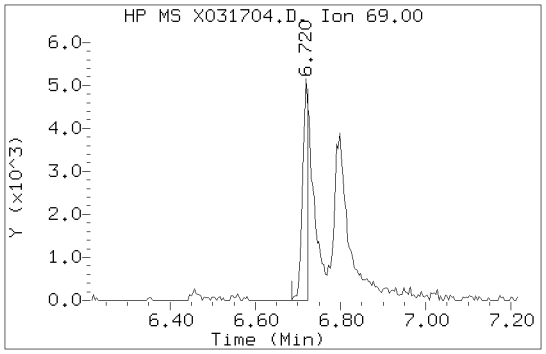
BEFORE

MASS
69
AREA
9311
HEIGHT
5158
30-Mar-2023
12:33
linh
pham



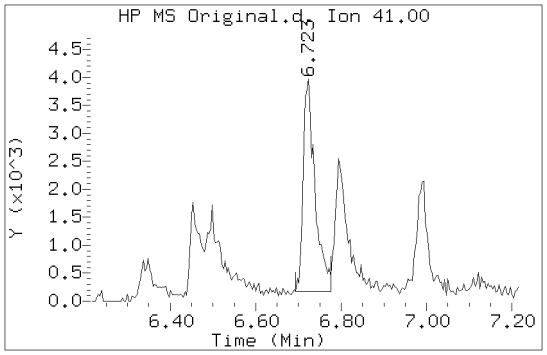
AFTER

MASS
69
AREA
4689
HEIGHT
5158
30-Mar-2023
12:41
linh
pham



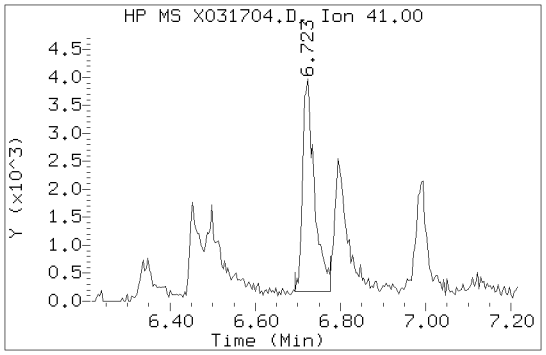
BEFORE

MASS
41
AREA
7465
HEIGHT
3806
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
7465
HEIGHT
3806
30-Mar-2023
12:41
linh
pham

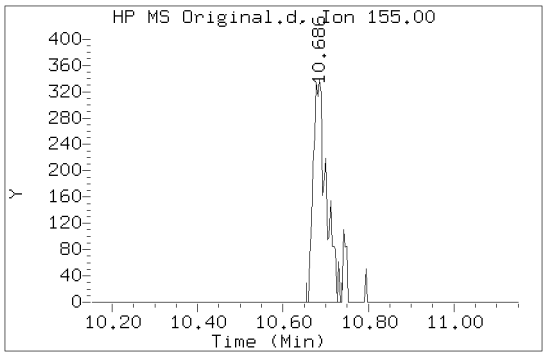


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

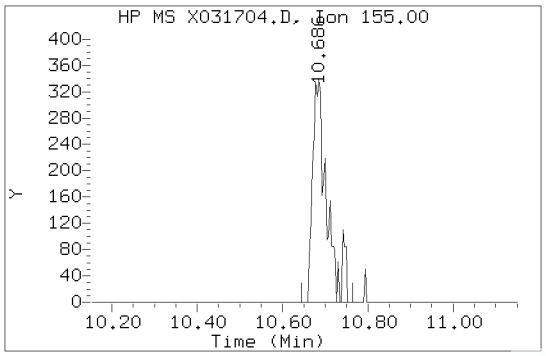
BEFORE

MASS
155
AREA
717
HEIGHT
338
30-Mar-2023
12:33
linh
pham



AFTER

MASS
155
AREA
779
HEIGHT
338
30-Mar-2023
12:41
linh
pham



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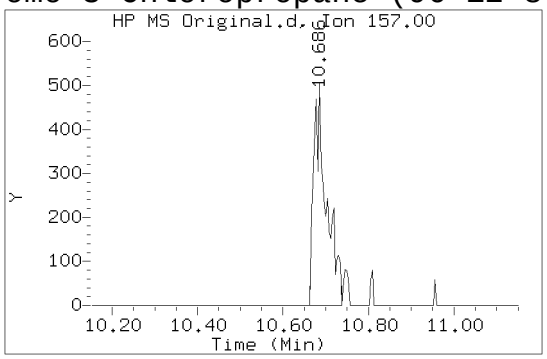
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

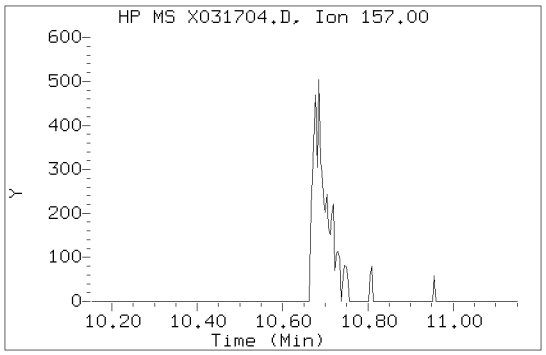
BEFORE

MASS
157
AREA
1030
HEIGHT
504
30-Mar-2023
12:33
linh
pham



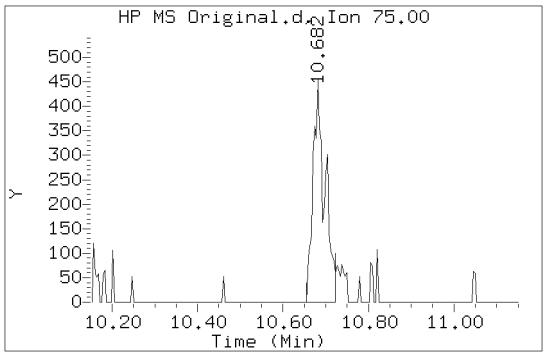
AFTER

MASS
157
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



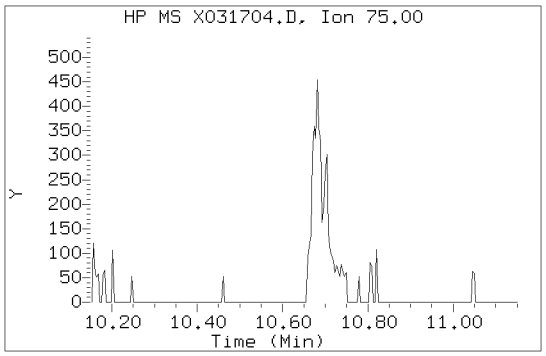
BEFORE

MASS
75
AREA
874
HEIGHT
454
30-Mar-2023
12:33
linh
pham



AFTER

MASS
75
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

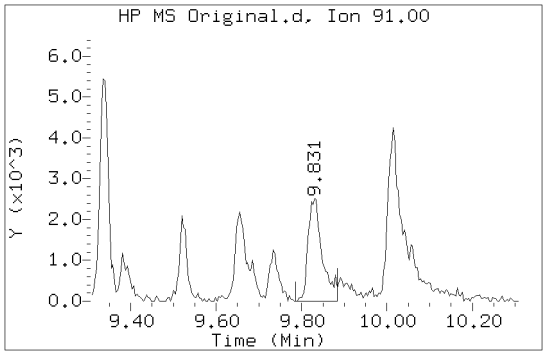


Benzyl Chloride (100-44-7)

Reason Code:

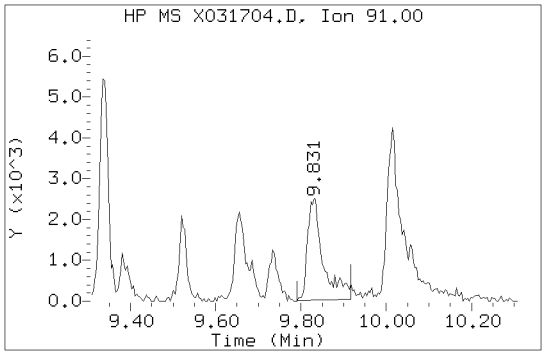
BEFORE

MASS
91
AREA
5843
HEIGHT
2513
30-Mar-2023
12:33
linh
pham



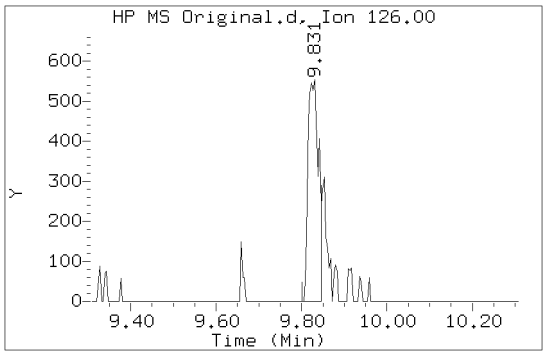
AFTER

MASS
91
AREA
6470
HEIGHT
2487
30-Mar-2023
12:41
linh
pham



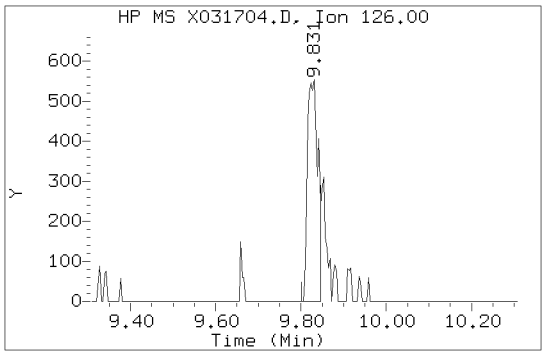
BEFORE

MASS
126
AREA
950
HEIGHT
554
30-Mar-2023
12:33
linh
pham



AFTER

MASS
126
AREA
950
HEIGHT
554
30-Mar-2023
12:41
linh
pham



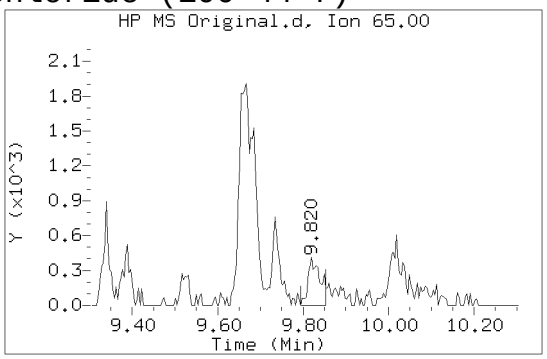
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Benzyl Chloride (100-44-7)

Reason Code:

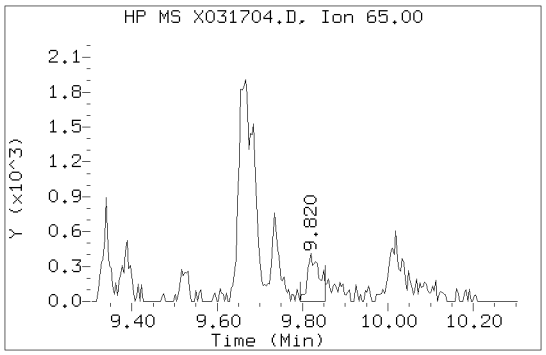
BEFORE

MASS
65
AREA
798
HEIGHT
411
30-Mar-2023
12:33
linh
pham



AFTER

MASS
65
AREA
798
HEIGHT
411
30-Mar-2023
12:41
linh
pham

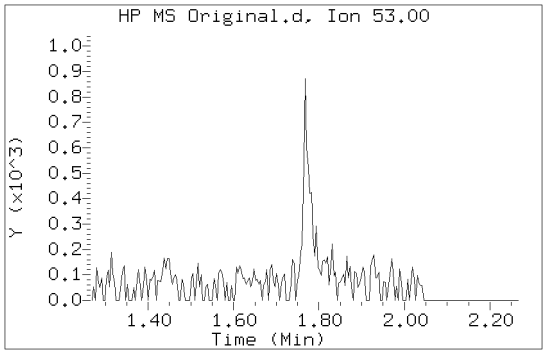


Chloroprene (126-99-8)

Reason Code:

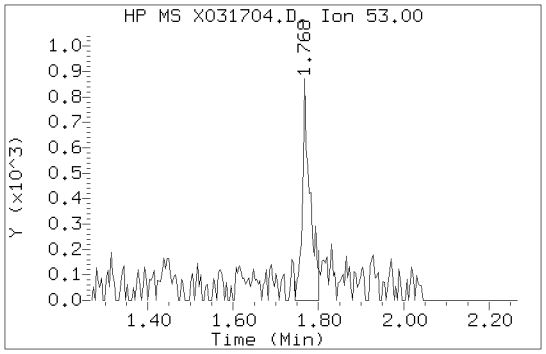
BEFORE

MASS
53
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



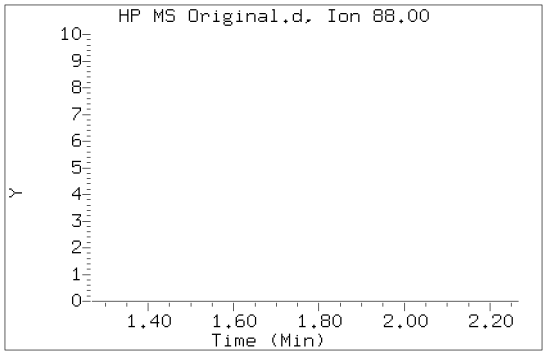
AFTER

MASS
53
AREA
1110
HEIGHT
872
30-Mar-2023
12:41
linh
pham



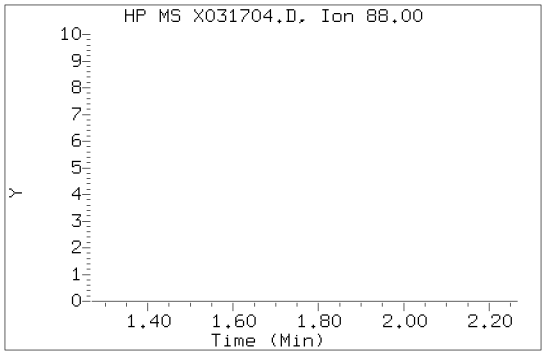
BEFORE

MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

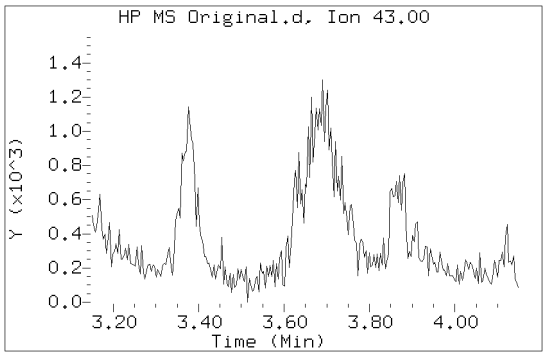


Ethyl Acetate (141-78-6)

Reason Code:

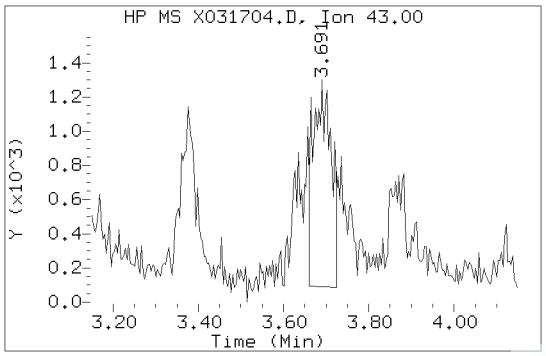
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
AREA
3592
HEIGHT
1209
30-Mar-2023
12:41
linh
pham



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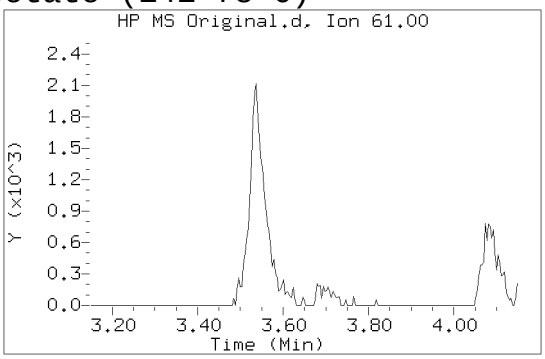
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

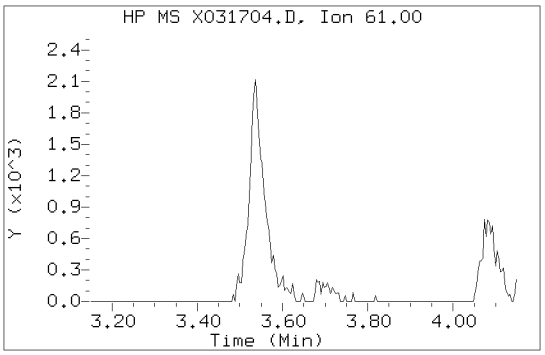
Ethyl Acetate (141-78-6)

BEFORE
MASS
61
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham

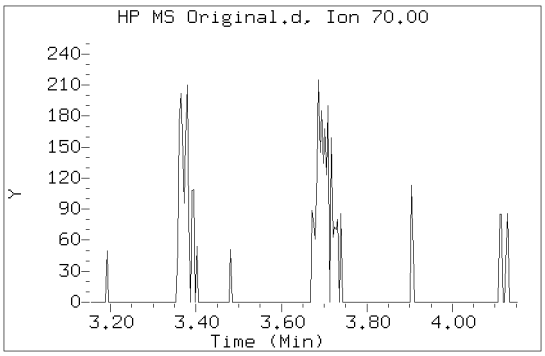


AFTER
MASS
61
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

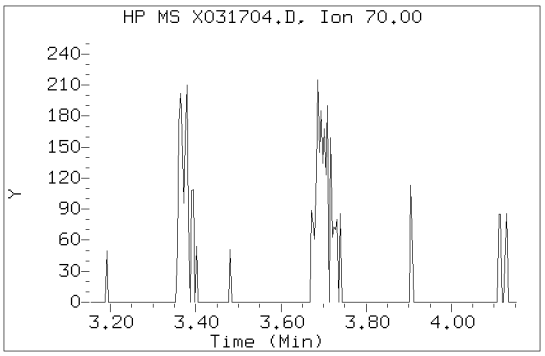
Reason Code:



BEFORE
MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham

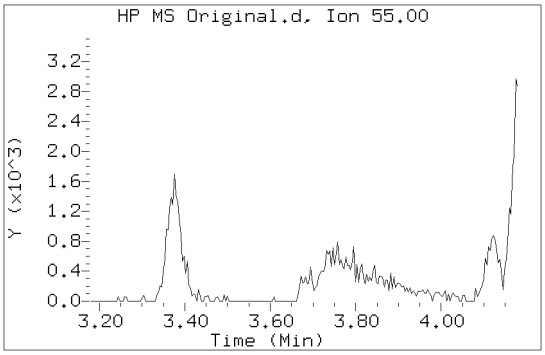


AFTER
MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



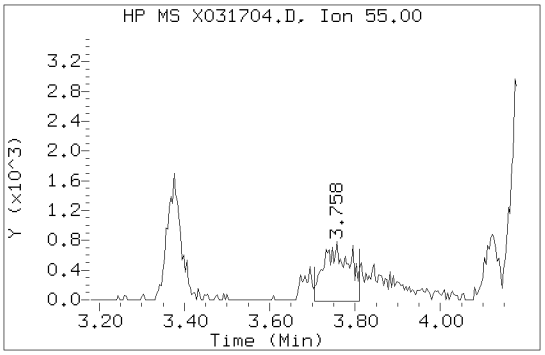
Methyl Acrylate (96-33-3)

BEFORE
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham

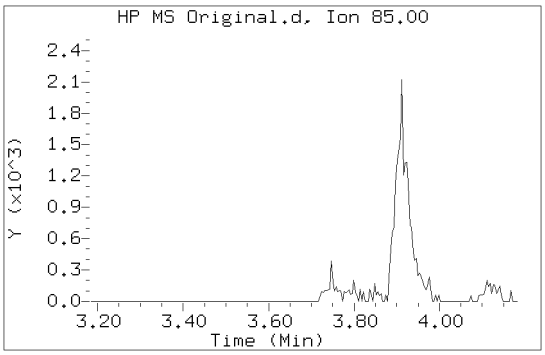


AFTER
MASS
55
AREA
3267
HEIGHT
805
30-Mar-2023
12:41
linh
pham

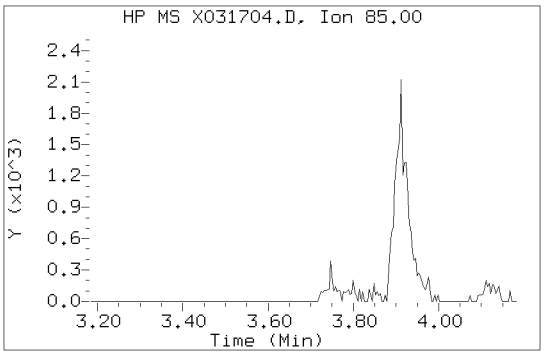
Reason Code:



BEFORE
MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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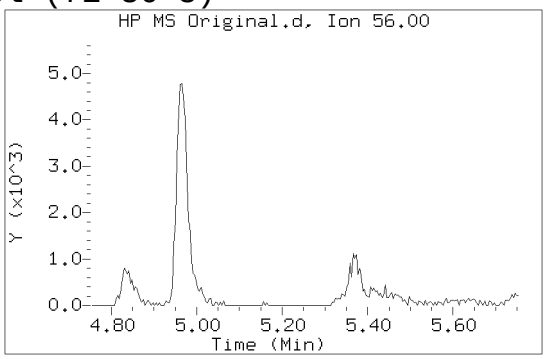
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

n-Butanol (71-36-3)

Reason Code:

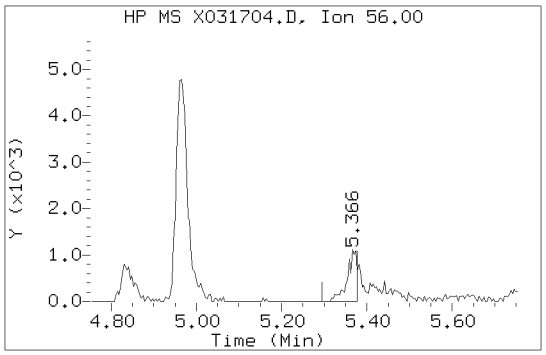
BEFORE

MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



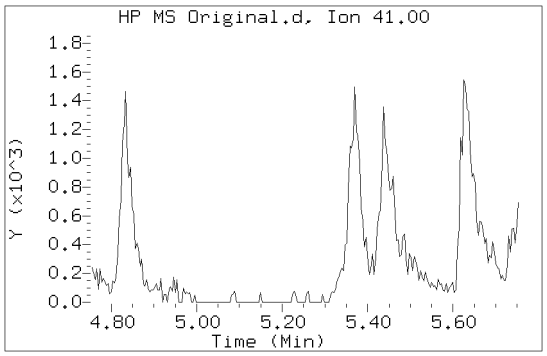
AFTER

MASS
56
AREA
1715
HEIGHT
1125
30-Mar-2023
12:41
linh
pham



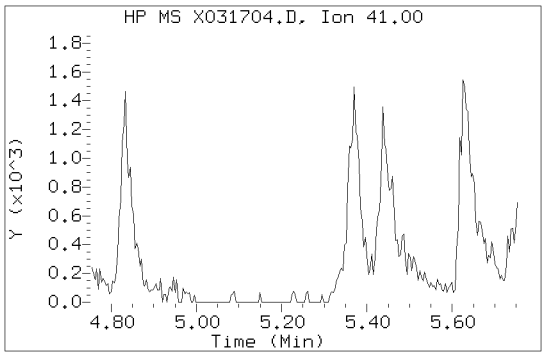
BEFORE

MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

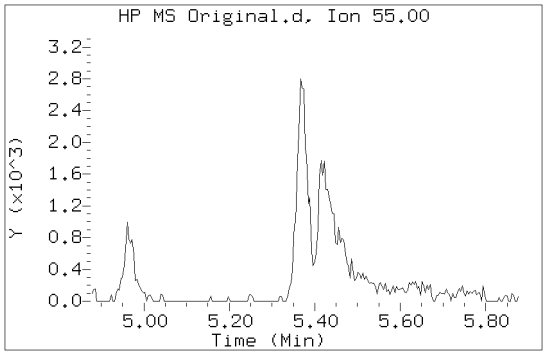


Ethyl Acrylate (140-88-5)

Reason Code:

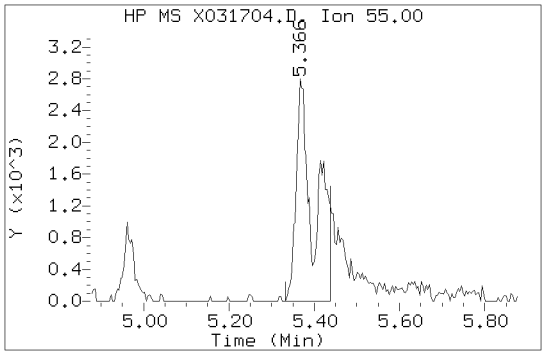
BEFORE

MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



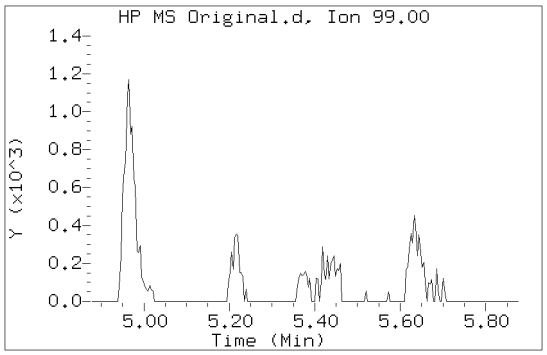
AFTER

MASS
55
AREA
8164
HEIGHT
2799
30-Mar-2023
12:41
linh
pham



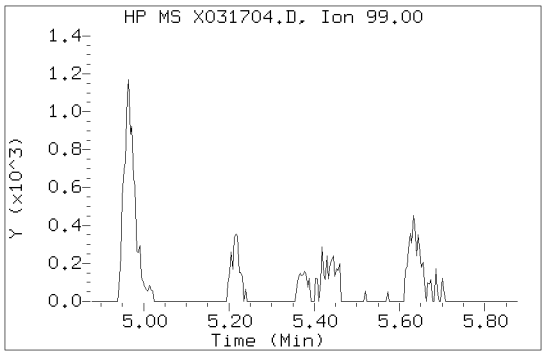
BEFORE

MASS
99
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
99
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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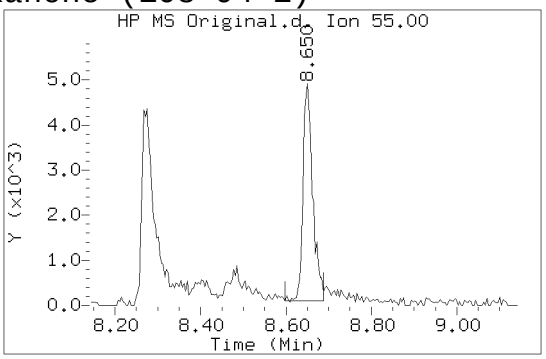
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Cyclohexanone (108-94-1)

Reason Code:

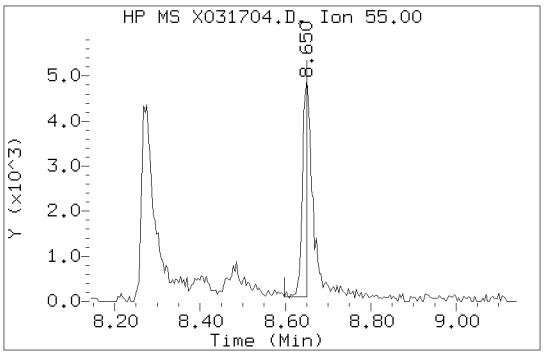
BEFORE

MASS
55
AREA
7784
HEIGHT
4818
30-Mar-2023
12:33
linh
pham



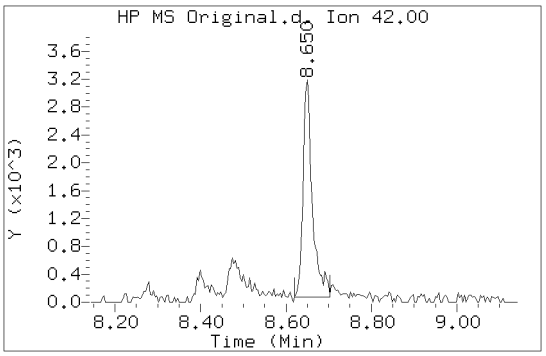
AFTER

MASS
55
AREA
3987
HEIGHT
4818
30-Mar-2023
12:41
linh
pham



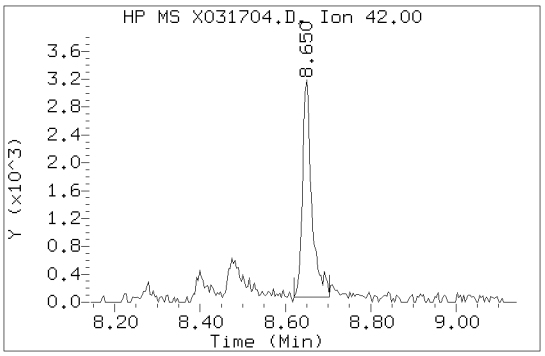
BEFORE

MASS
42
AREA
4854
HEIGHT
3120
30-Mar-2023
12:33
linh
pham



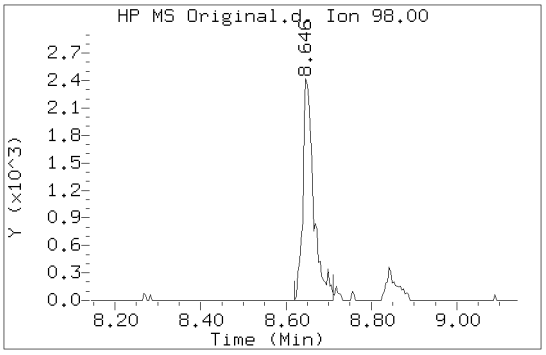
AFTER

MASS
42
AREA
4854
HEIGHT
3120
30-Mar-2023
12:41
linh
pham



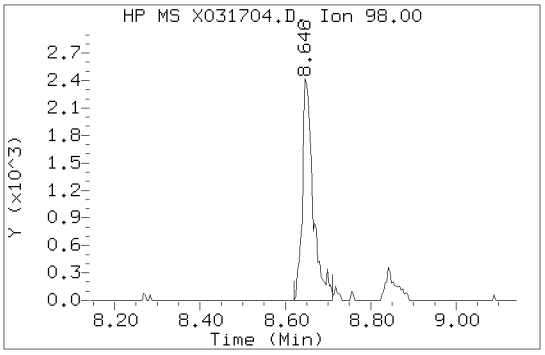
BEFORE

MASS
98
AREA
4345
HEIGHT
2420
30-Mar-2023
12:33
linh
pham



AFTER

MASS
98
AREA
4345
HEIGHT
2420
30-Mar-2023
12:41
linh
pham

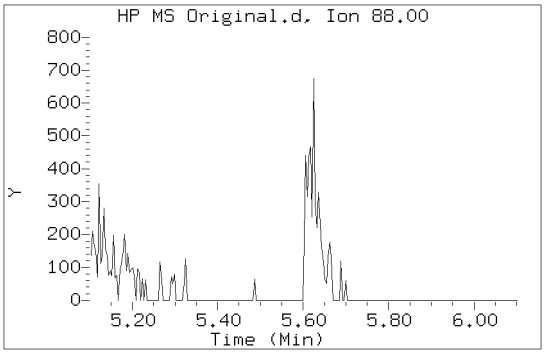


1,4-Dioxane ()

Reason Code:

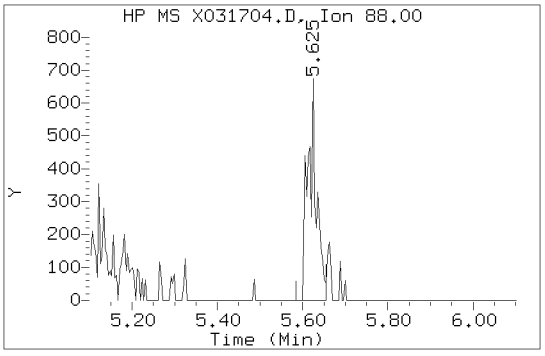
BEFORE

MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
88
AREA
953
HEIGHT
674
30-Mar-2023
12:41
linh
pham



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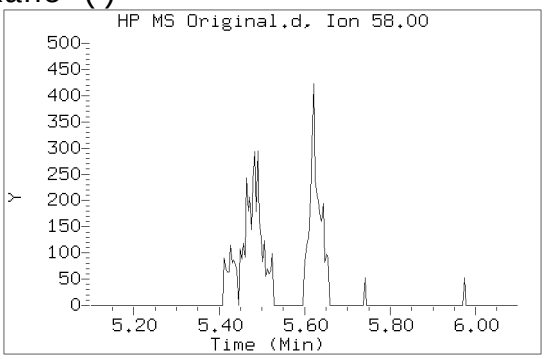
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,4-Dioxane ()

Reason Code:

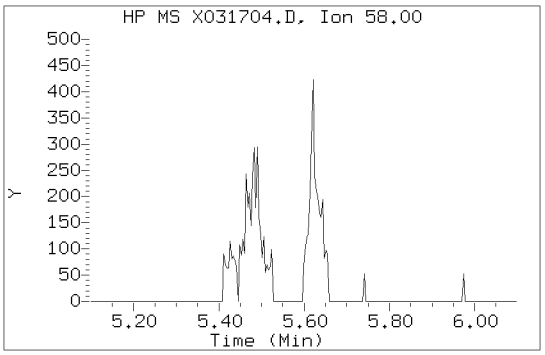
BEFORE

MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

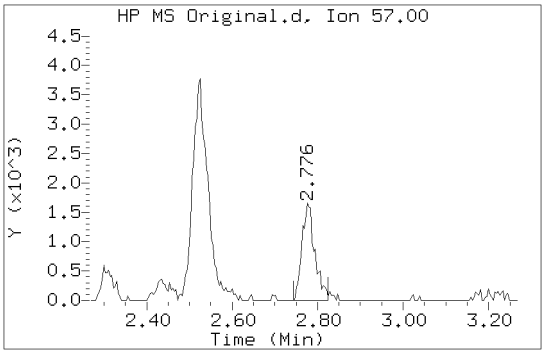


n-Hexane (110-54-3)

Reason Code:

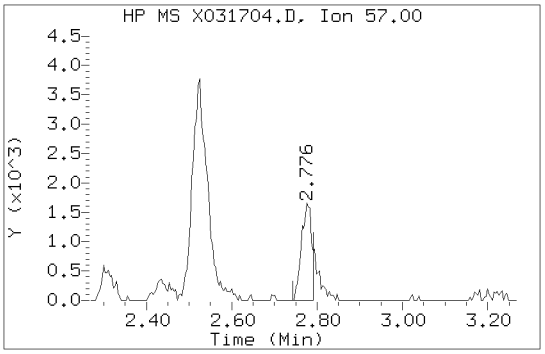
BEFORE

MASS
57
AREA
3493
HEIGHT
1662
30-Mar-2023
12:33
linh
pham



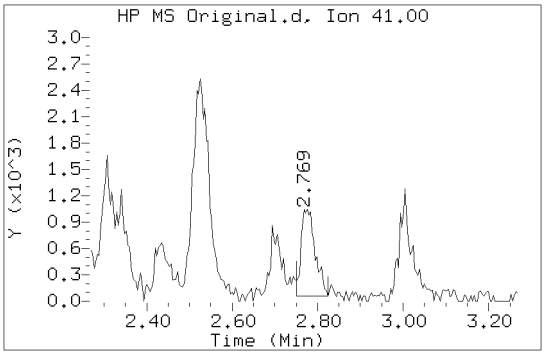
AFTER

MASS
57
AREA
2771
HEIGHT
1662
30-Mar-2023
12:41
linh
pham



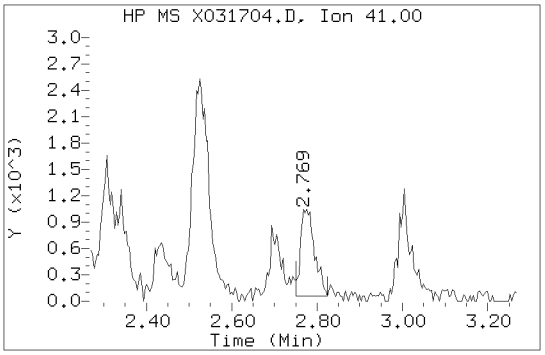
BEFORE

MASS
41
AREA
2298
HEIGHT
985
30-Mar-2023
12:33
linh
pham



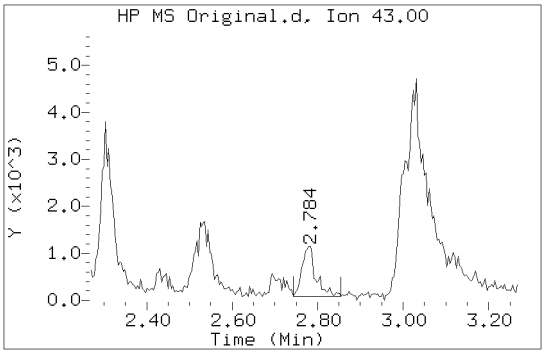
AFTER

MASS
41
AREA
2298
HEIGHT
985
30-Mar-2023
12:41
linh
pham



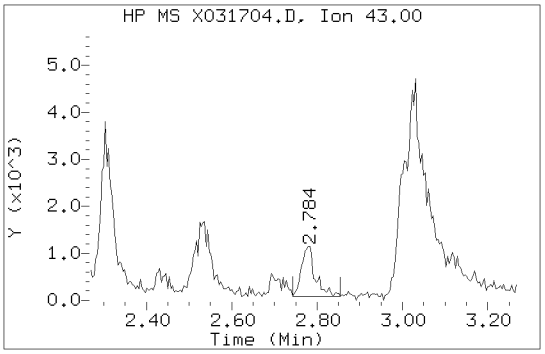
BEFORE

MASS
43
AREA
2392
HEIGHT
1064
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
AREA
2392
HEIGHT
1064
30-Mar-2023
12:41
linh
pham



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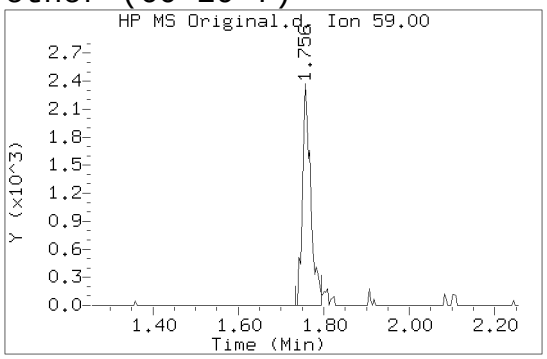
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Diethyl ether (60-29-7)

Reason Code:

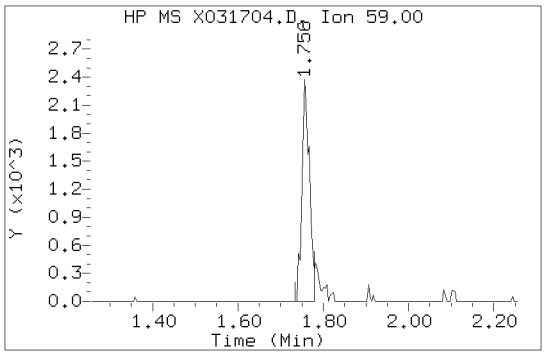
BEFORE

MASS
59
AREA
3185
HEIGHT
2372
30-Mar-2023
12:33
linh
pham



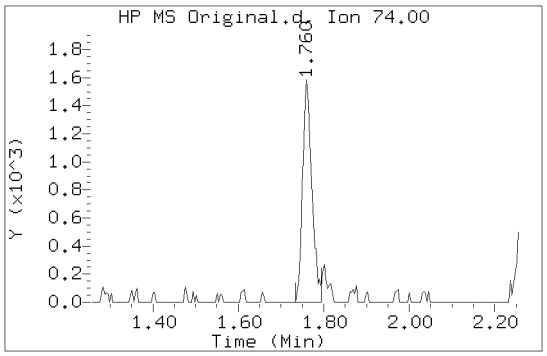
AFTER

MASS
59
AREA
2934
HEIGHT
2372
30-Mar-2023
12:41
linh
pham



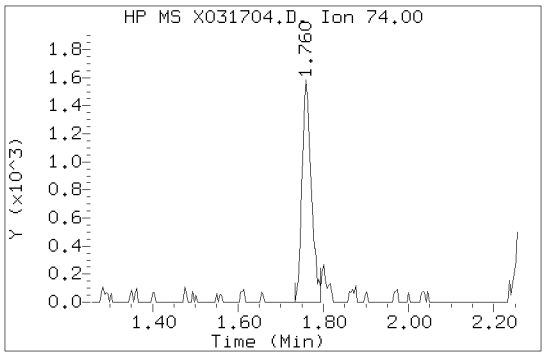
BEFORE

MASS
74
AREA
2425
HEIGHT
1584
30-Mar-2023
12:33
linh
pham



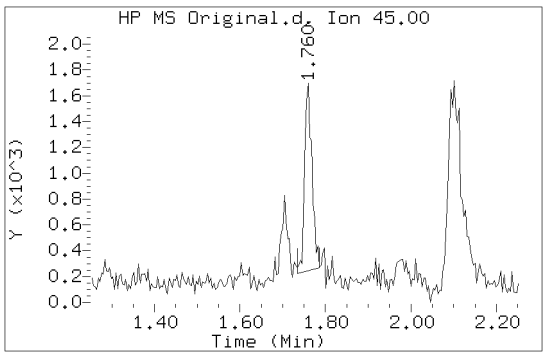
AFTER

MASS
74
AREA
2425
HEIGHT
1584
30-Mar-2023
12:41
linh
pham



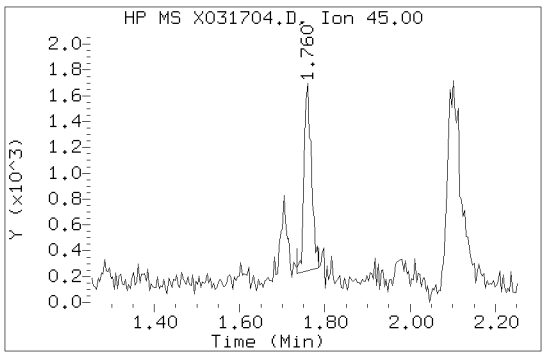
BEFORE

MASS
45
AREA
1781
HEIGHT
1452
30-Mar-2023
12:33
linh
pham



AFTER

MASS
45
AREA
1781
HEIGHT
1452
30-Mar-2023
12:41
linh
pham

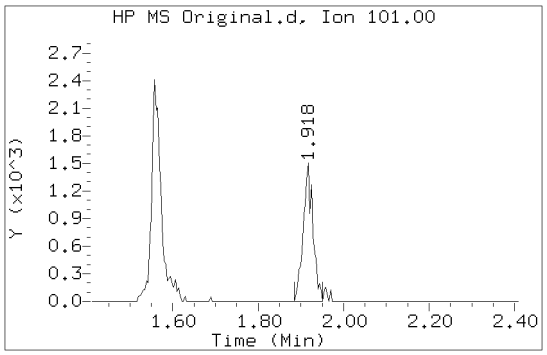


Freon TF (76-13-1)

Reason Code:

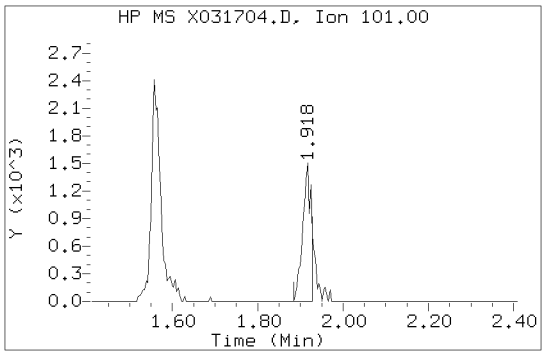
BEFORE

MASS
101
AREA
2402
HEIGHT
1502
30-Mar-2023
12:33
linh
pham



AFTER

MASS
101
AREA
2078
HEIGHT
1502
30-Mar-2023
12:41
linh
pham



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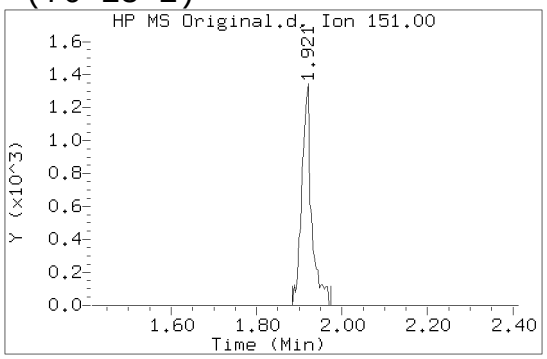
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Freon TF (76-13-1)

BEFORE

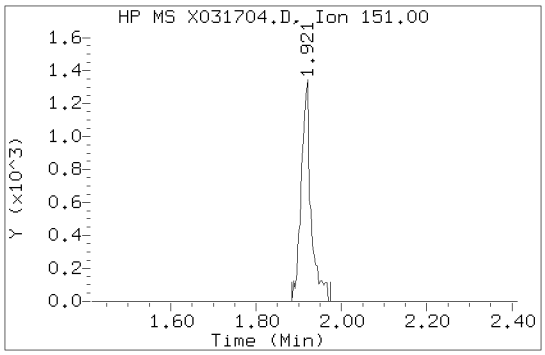
MASS
151
AREA
2175
HEIGHT
1345
30-Mar-2023
12:33
linh
pham



AFTER

MASS
151
AREA
2175
HEIGHT
1345
30-Mar-2023
12:41
linh
pham

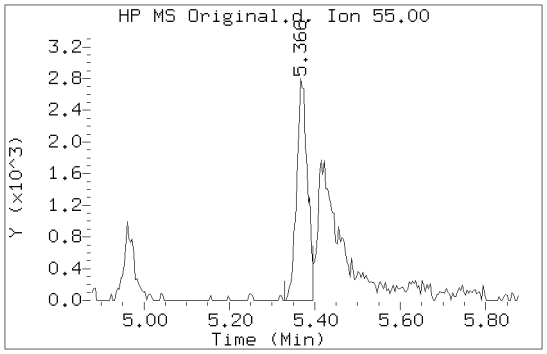
Reason Code:



Methylcyclohexane (108-87-2)

BEFORE

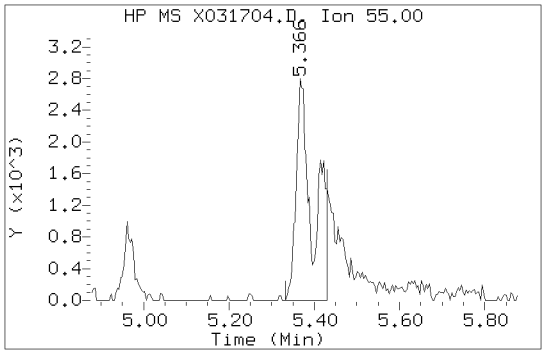
MASS
55
AREA
4999
HEIGHT
2799
30-Mar-2023
12:33
linh
pham



AFTER

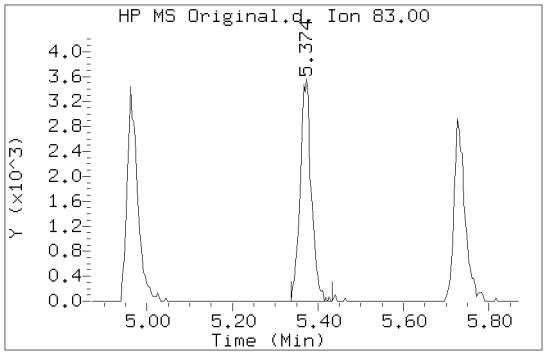
MASS
55
AREA
7595
HEIGHT
2799
30-Mar-2023
12:41
linh
pham

Reason Code:



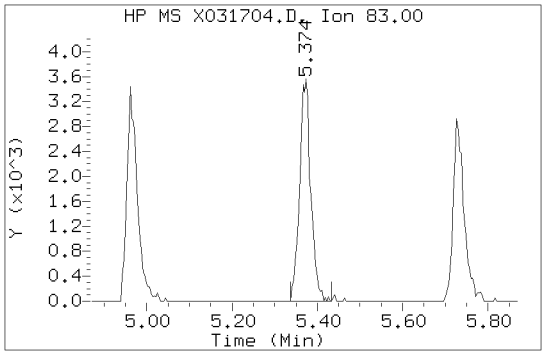
BEFORE

MASS
83
AREA
6611
HEIGHT
3563
30-Mar-2023
12:33
linh
pham



AFTER

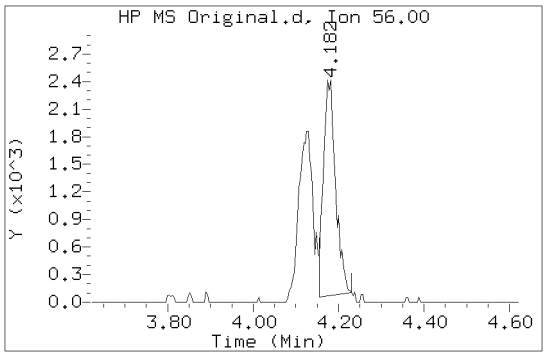
MASS
83
AREA
6611
HEIGHT
3563
30-Mar-2023
12:41
linh
pham



Cyclohexane (110-82-7)

BEFORE

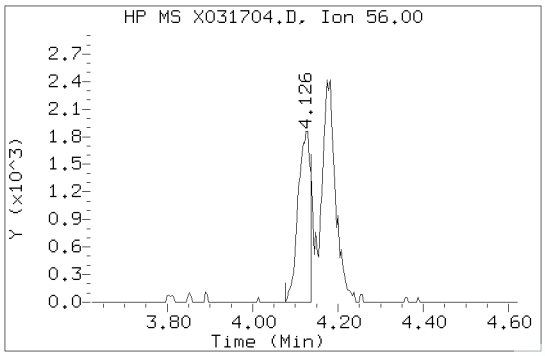
MASS
56
AREA
4672
HEIGHT
2345
30-Mar-2023
12:33
linh
pham



AFTER

MASS
56
AREA
3748
HEIGHT
1862
30-Mar-2023
12:41
linh
pham

Reason Code:



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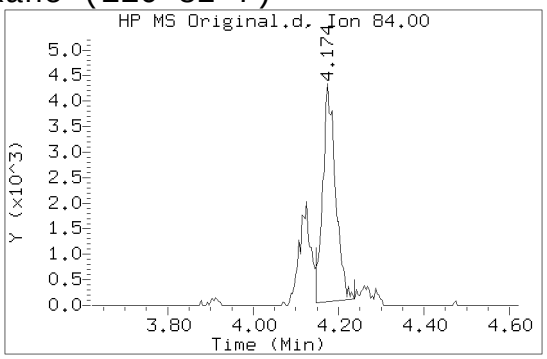
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

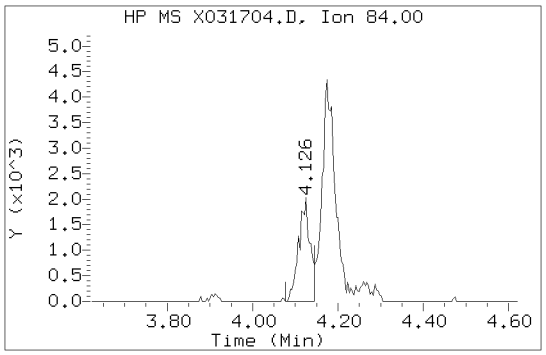
Cyclohexane (110-82-7)

Reason Code:

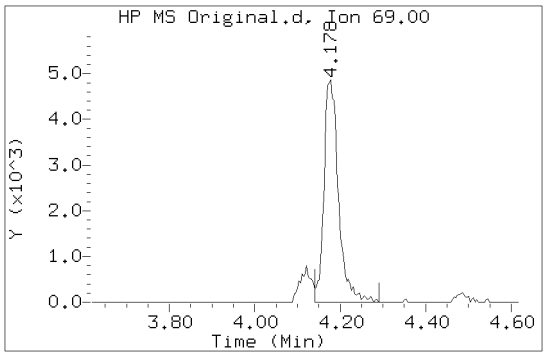
BEFORE
MASS
84
AREA
8833
HEIGHT
4266
30-Mar-2023
12:33
linh
pham



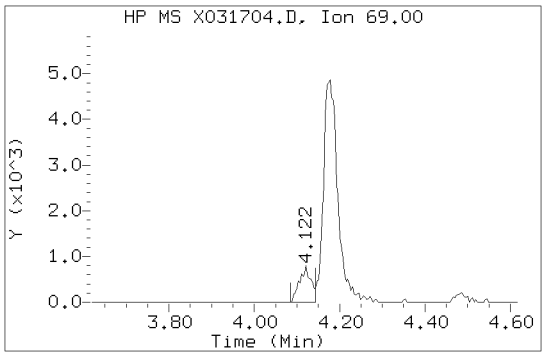
AFTER
MASS
84
AREA
3798
HEIGHT
2028
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
69
AREA
11518
HEIGHT
4862
30-Mar-2023
12:33
linh
pham



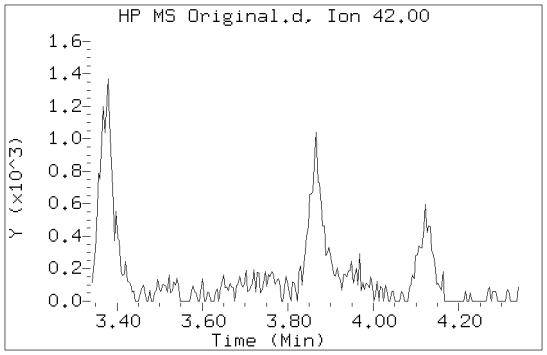
AFTER
MASS
69
AREA
1536
HEIGHT
806
30-Mar-2023
12:41
linh
pham



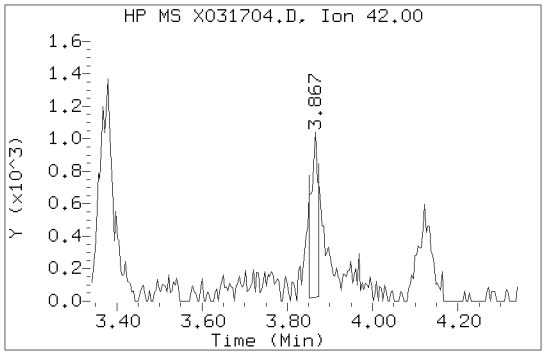
Tetrahydrofuran (109-99-9)

Reason Code:

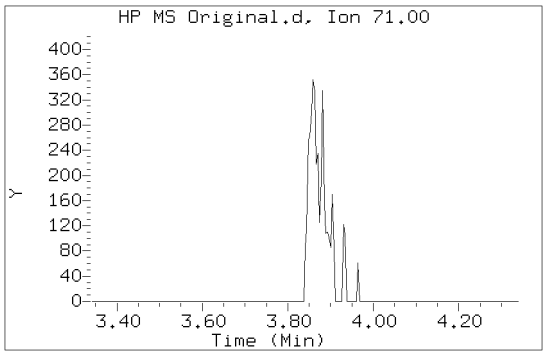
BEFORE
MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



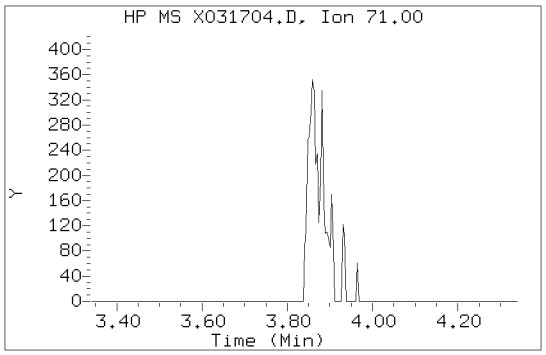
AFTER
MASS
42
AREA
1179
HEIGHT
1015
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
71
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
71
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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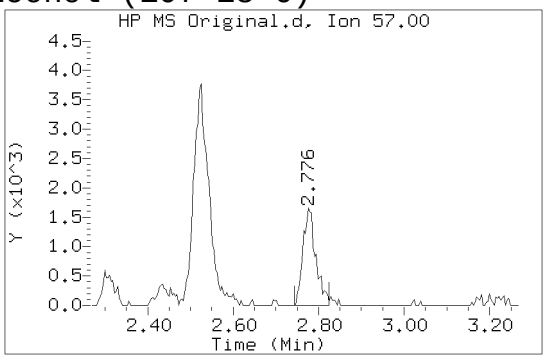
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Allyl alcohol (107-18-6)

Reason Code:

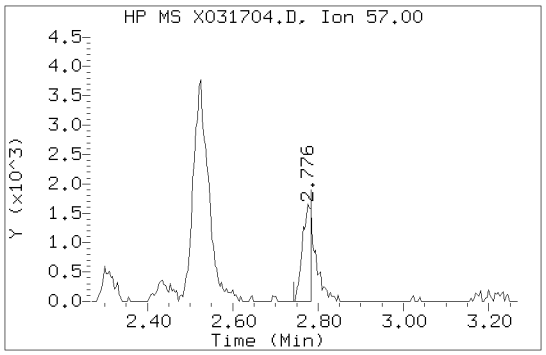
BEFORE

MASS
57
AREA
3493
HEIGHT
1662
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
2361
HEIGHT
1662
30-Mar-2023
12:41
linh
pham

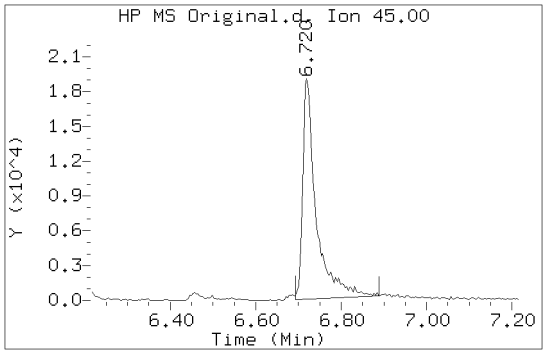


4-Methyl-2-pentanol (108-11-2)

Reason Code:

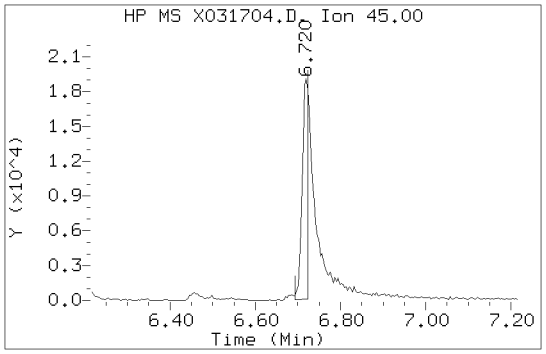
BEFORE

MASS
45
AREA
42281
HEIGHT
19018
30-Mar-2023
12:33
linh
pham



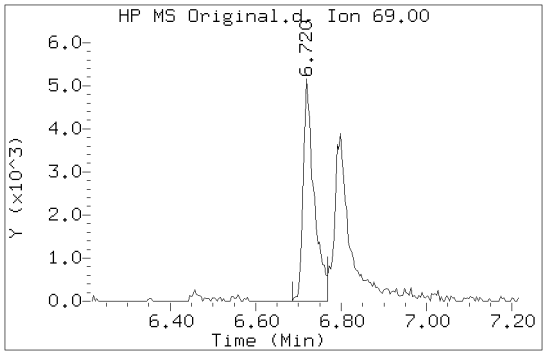
AFTER

MASS
45
AREA
18895
HEIGHT
19018
30-Mar-2023
12:41
linh
pham



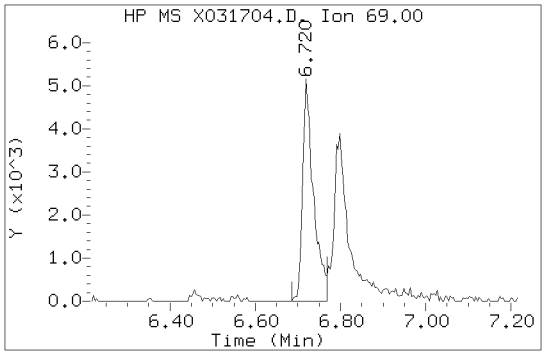
BEFORE

MASS
69
AREA
9311
HEIGHT
5158
30-Mar-2023
12:33
linh
pham



AFTER

MASS
69
AREA
9311
HEIGHT
5158
30-Mar-2023
12:41
linh
pham

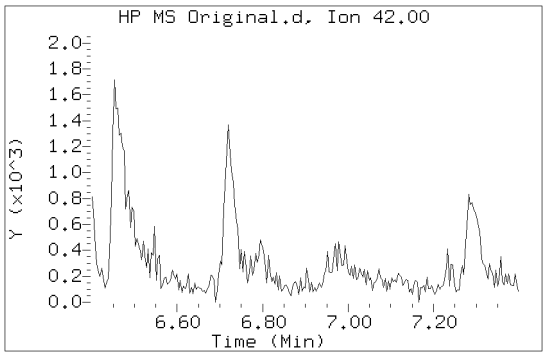


Amyl alcohol (71-41-0)

Reason Code:

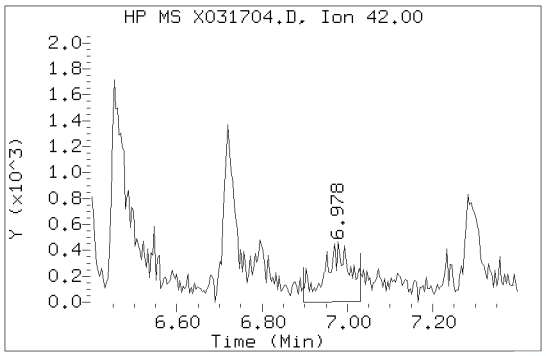
BEFORE

MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
42
AREA
1880
HEIGHT
462
30-Mar-2023
12:41
linh
pham

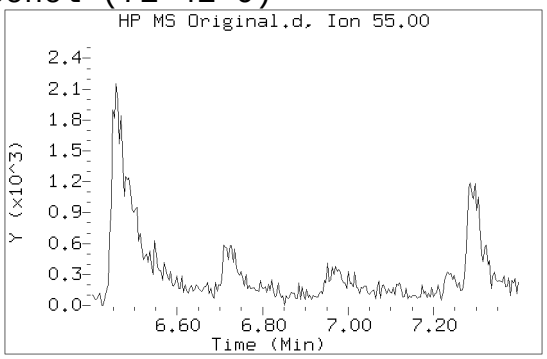


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

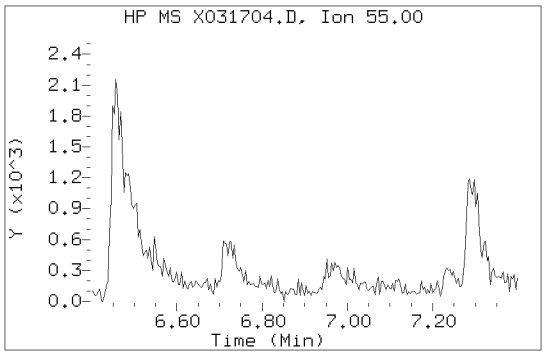
Amyl alcohol (71-41-0)

Reason Code:

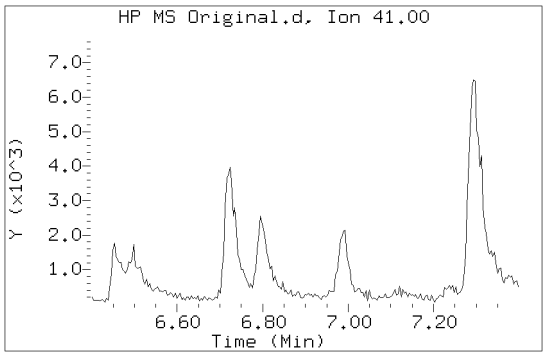
BEFORE
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



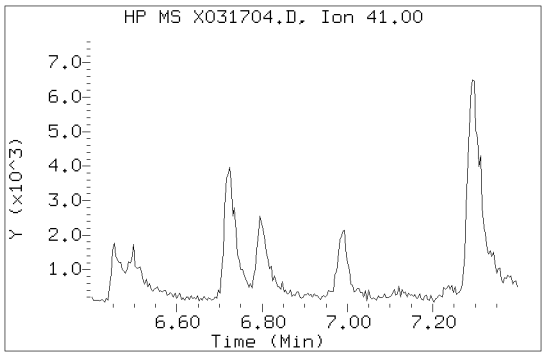
AFTER
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



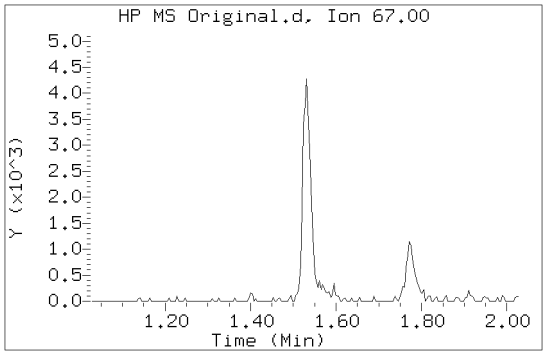
AFTER
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



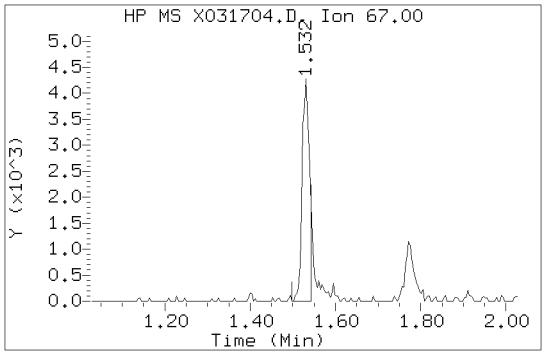
Dichlorofluoromethane (75-43-4)

Reason Code:

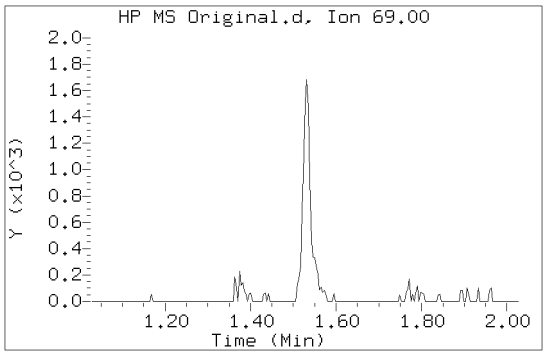
BEFORE
MASS
67
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



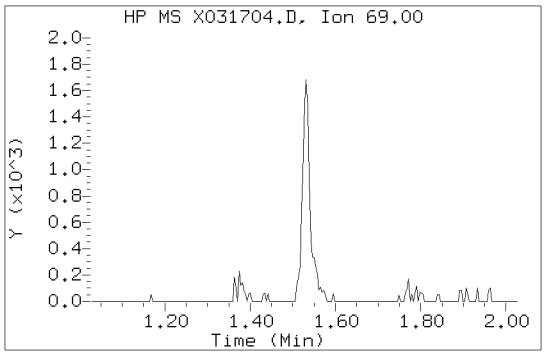
AFTER
MASS
67
AREA
5093
HEIGHT
4276
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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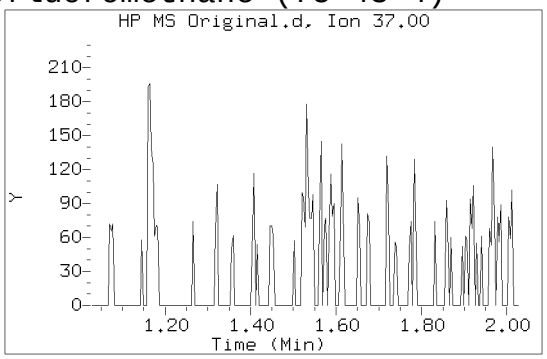
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Dichlorofluoromethane (75-43-4)

Reason Code:

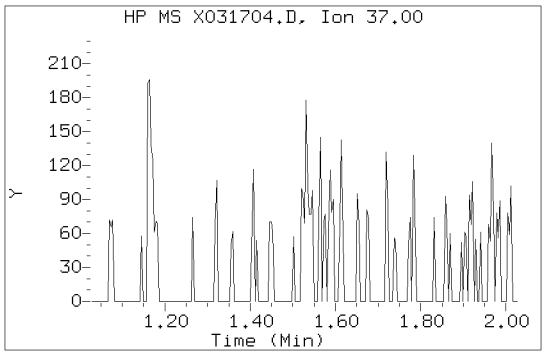
BEFORE

MASS
37
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
37
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

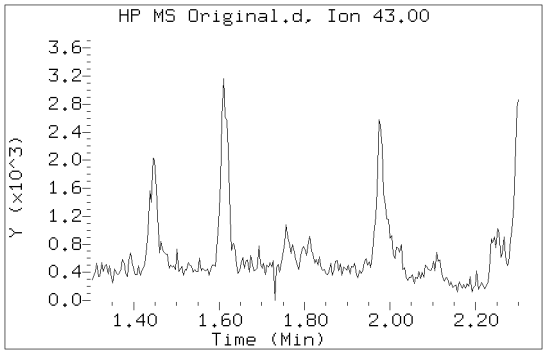


Propylene oxide ()

Reason Code:

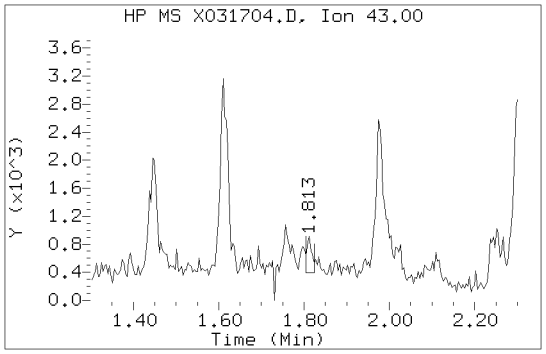
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



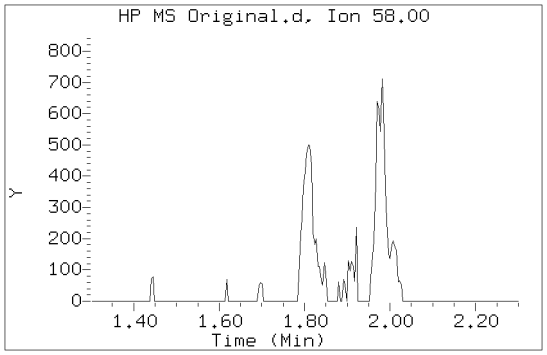
AFTER

MASS
43
AREA
432
HEIGHT
520
30-Mar-2023
12:41
linh
pham



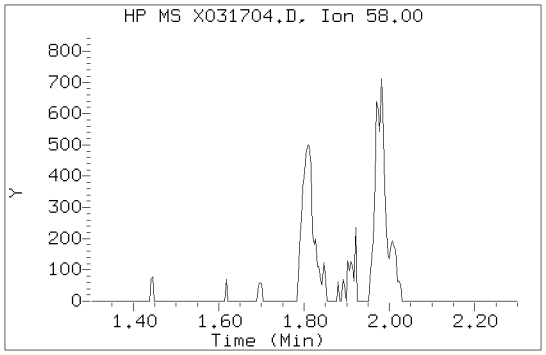
BEFORE

MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

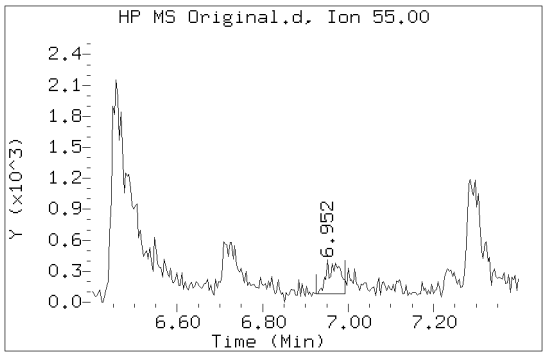


3-Methyl-1-butanol (123-51-3)

Reason Code:

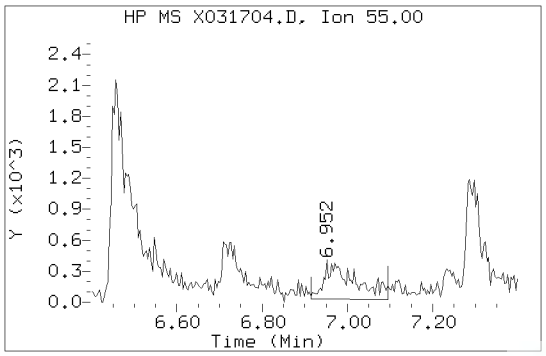
BEFORE

MASS
55
AREA
695
HEIGHT
332
30-Mar-2023
12:33
linh
pham



AFTER

MASS
55
AREA
1791
HEIGHT
379
30-Mar-2023
12:41
linh
pham



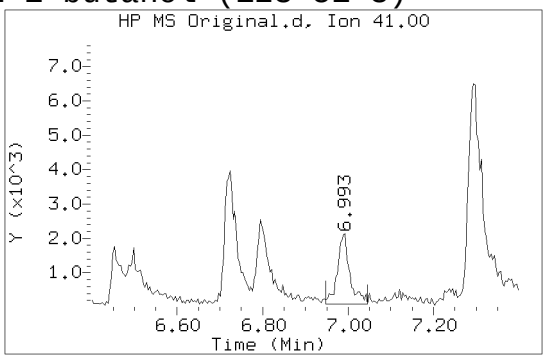
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

3-Methyl-1-butanol (123-51-3)

Reason Code:

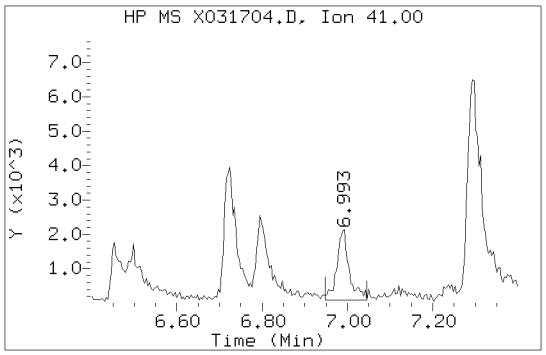
BEFORE

MASS
41
AREA
4088
HEIGHT
2043
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
4088
HEIGHT
2043
30-Mar-2023
12:41
linh
pham

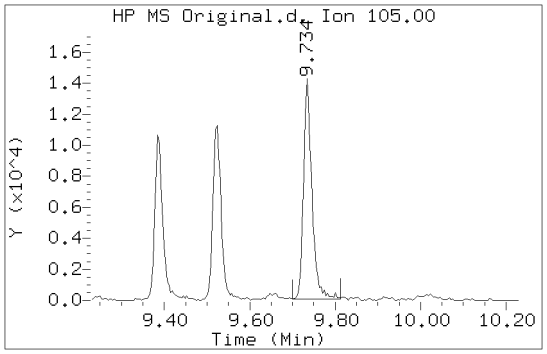


1,2,3-Trimethylbenzene (526-73-8)

Reason Code:

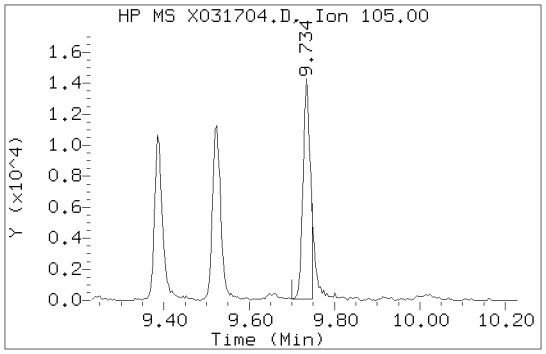
BEFORE

MASS
105
AREA
19912
HEIGHT
14211
30-Mar-2023
12:33
linh
pham



AFTER

MASS
105
AREA
17375
HEIGHT
14211
30-Mar-2023
12:41
linh
pham



Ethanol (64-17-5)

Reason Code:

BEFORE

MASS
45
AREA
0
HEIGHT
0
30-Mar-2023
12:33
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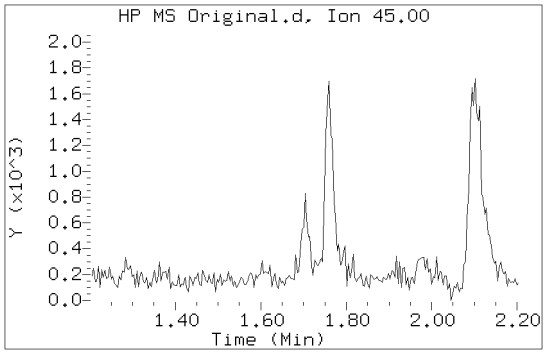

AFTER

MASS
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AREA
656
HEIGHT
654
30-Mar-2023
12:41
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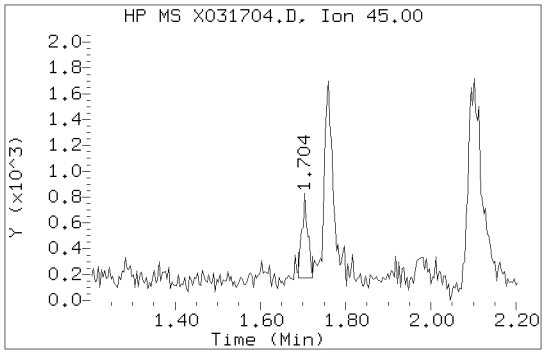

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Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Ethanol (64-17-5)

Reason Code:

BEFORE
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46
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12:33
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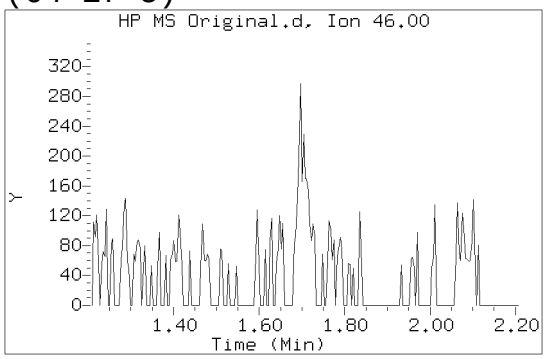

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46
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30-Mar-2023
12:41
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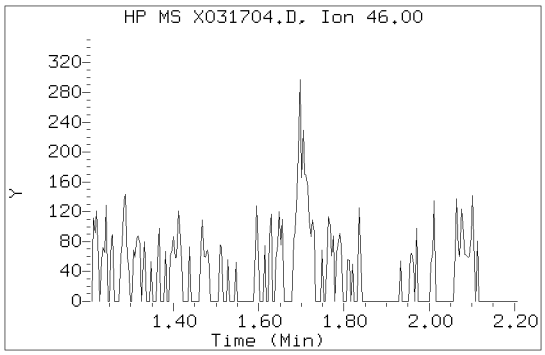

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30-Mar-2023
12:33
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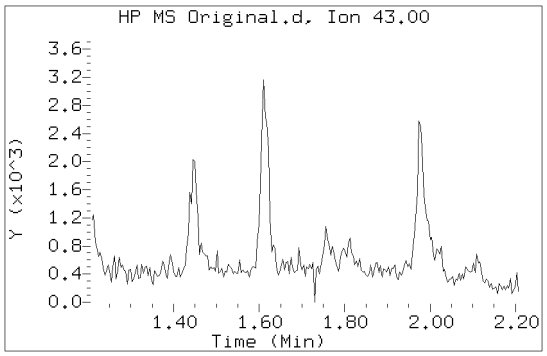

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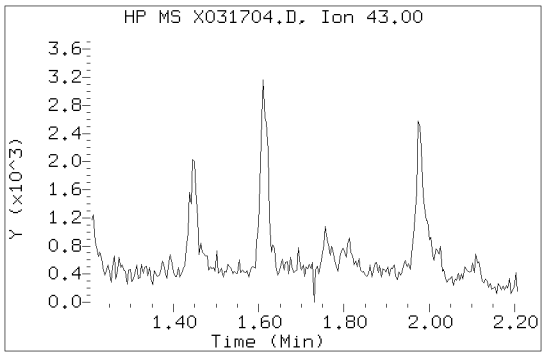

tert-Butyl formate (762-75-4)

Reason Code:

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59
AREA
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HEIGHT
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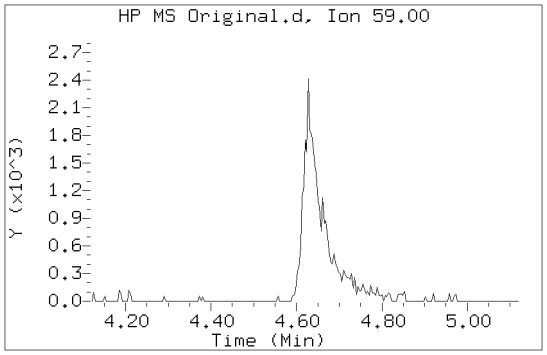
30-Mar-2023
12:33
linh
pham



AFTER
MASS
59
AREA
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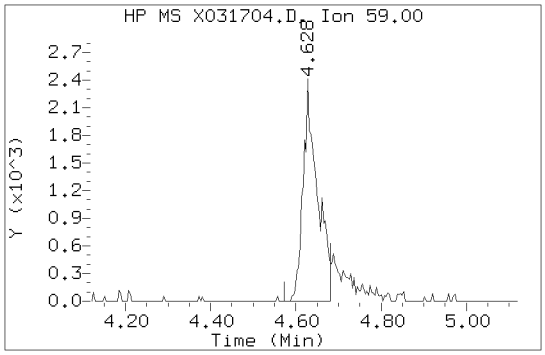
HEIGHT
2413
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
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HEIGHT
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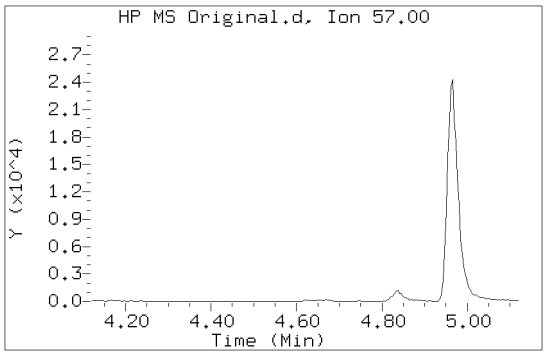
30-Mar-2023
12:33
linh
pham



AFTER
MASS
57
AREA
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HEIGHT
0
30-Mar-2023
12:41
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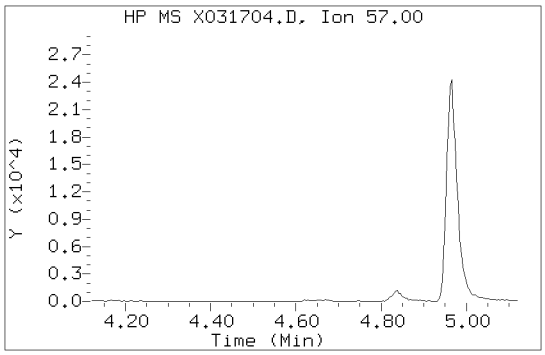
pham



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Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
41
AREA
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HEIGHT
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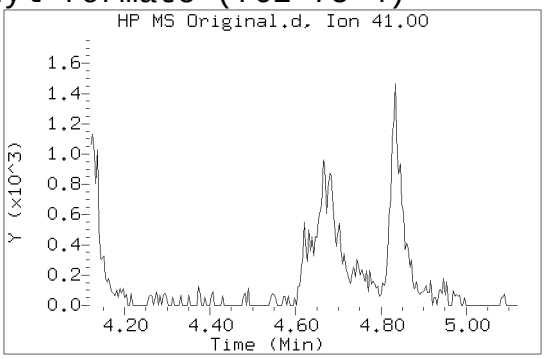
30-Mar-2023
12:33
linh
pham



AFTER
MASS
41
AREA
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HEIGHT
0
30-Mar-2023
12:41
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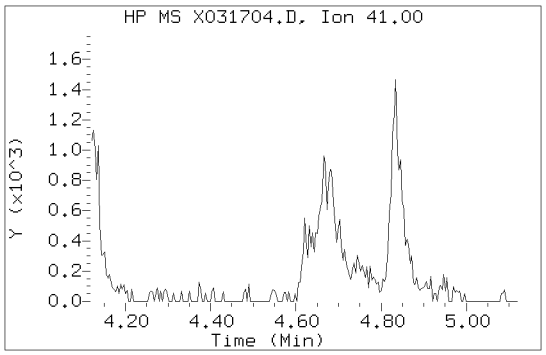
pham



3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE
MASS
57
AREA
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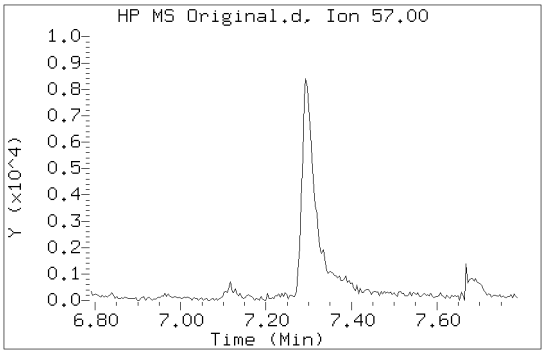
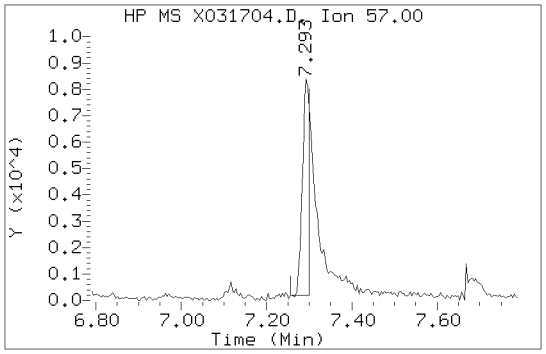
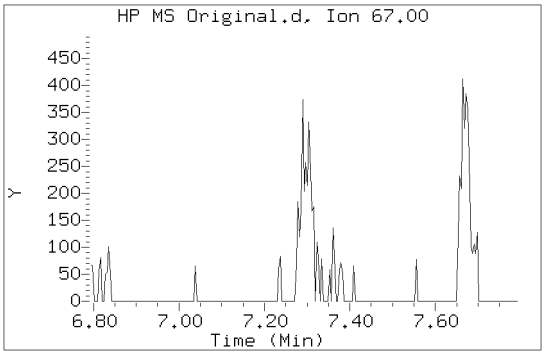
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
57
AREA
9512
HEIGHT
8210
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
67
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
67
AREA
0
HEIGHT
0
30-Mar-2023
12:41
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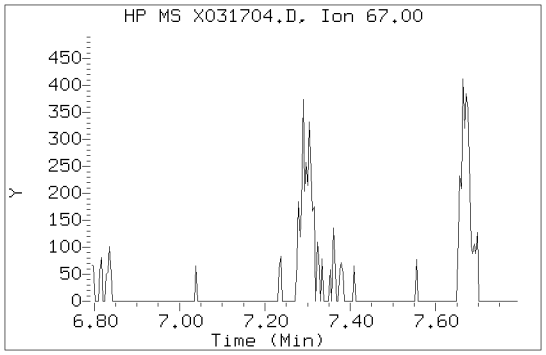
pham



BEFORE
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56
AREA
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HEIGHT
0
30-Mar-2023
12:33
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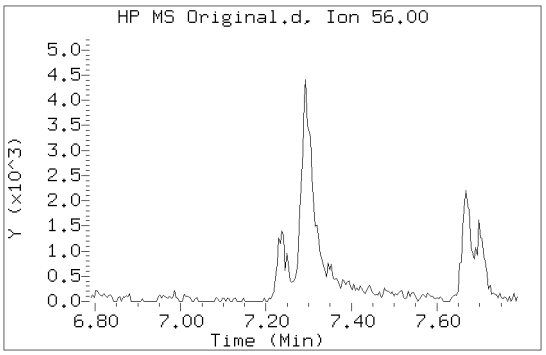
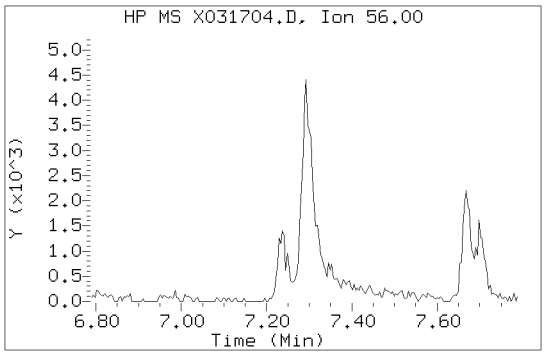
pham



AFTER
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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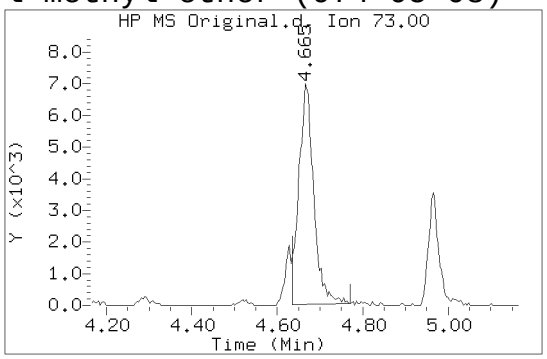
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

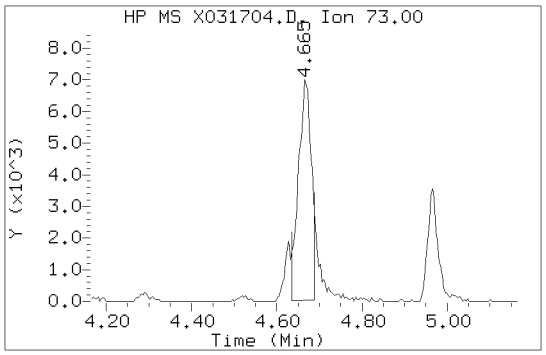
tert-Amyl methyl ether (974-05-08)

Reason Code:

BEFORE
MASS
73
AREA
17196
HEIGHT
6981
30-Mar-2023
12:33
linh
pham



AFTER
MASS
73
AREA
14951
HEIGHT
6982
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
87
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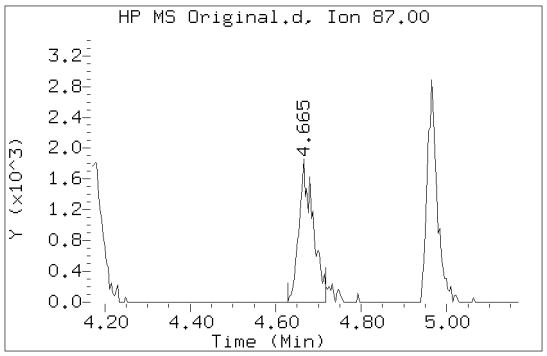
4319
HEIGHT
1864
30-Mar-2023
12:33
linh
pham



AFTER
MASS
87
AREA
4319
HEIGHT
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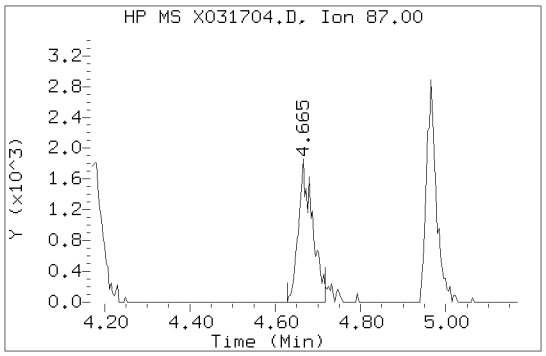
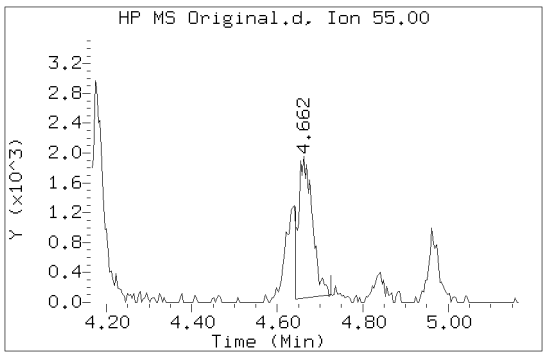
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
55
AREA
4389
HEIGHT
1902
30-Mar-2023
12:33
linh
pham



AFTER
MASS
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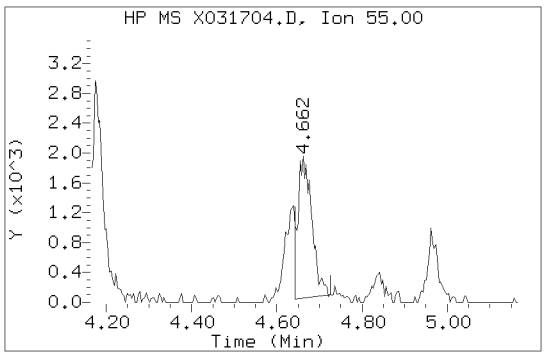
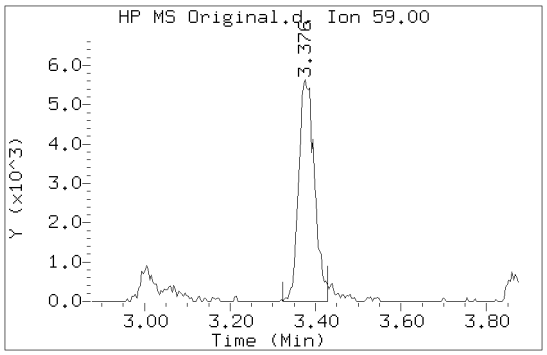
AREA
4389
HEIGHT
1902
30-Mar-2023
12:41
linh
pham



tert-Butyl ethyl ether (637-92-3)

Reason Code:

BEFORE
MASS
59
AREA
14741
HEIGHT
5638
30-Mar-2023
12:33
linh
pham



AFTER
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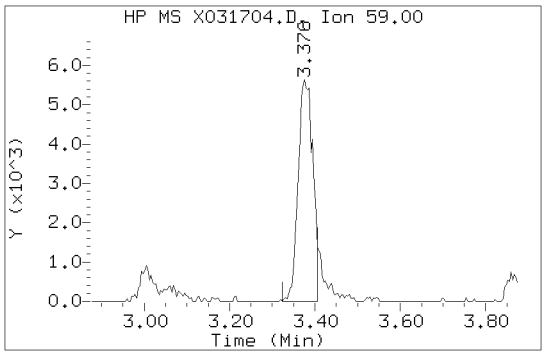
59
AREA
13706
HEIGHT
5638
30-Mar-2023
12:41
linh
pham



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Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

tert-Butyl ethyl ether (637-92-3)

BEFORE
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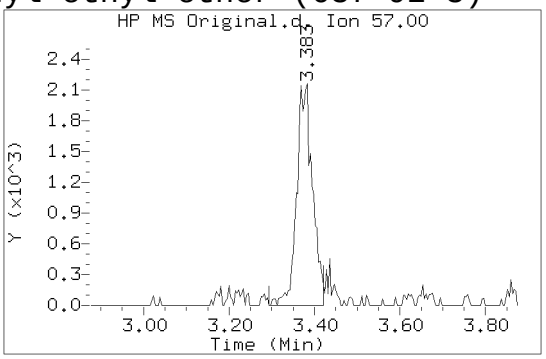
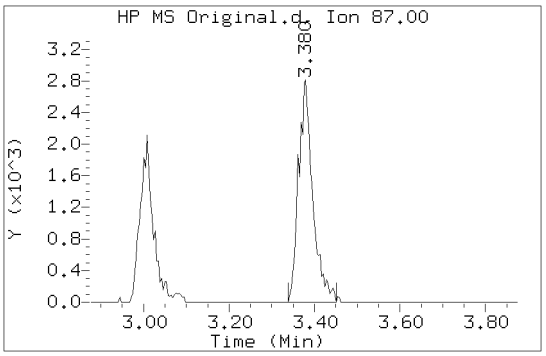
AREA
5639
HEIGHT
2164
30-Mar-2023
12:33
linh
pham



BEFORE
MASS
87
AREA
6630
HEIGHT
2813
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER
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HEIGHT
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30-Mar-2023
12:41
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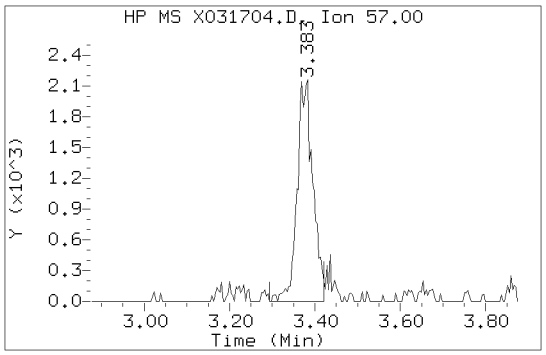
pham



AFTER
MASS
87
AREA
6630
HEIGHT
2813
30-Mar-2023
12:41
linh
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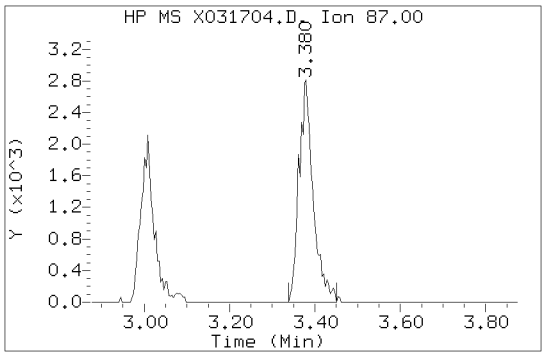
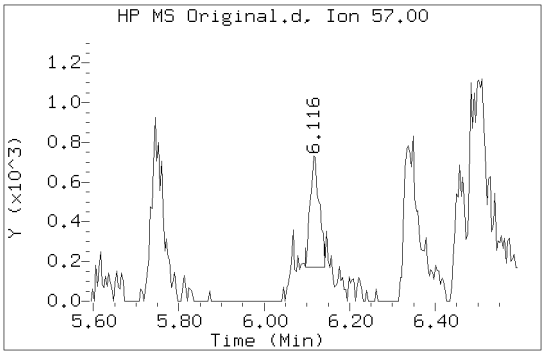
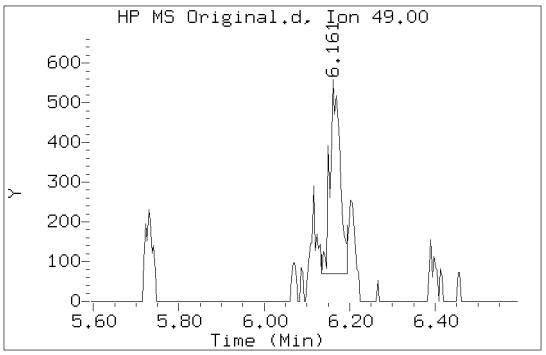


Epichlorohydrin (106-89-8)

BEFORE
MASS
57
AREA
816
HEIGHT
558
30-Mar-2023
12:33
linh
pham



BEFORE
MASS
49
AREA
808
HEIGHT
488
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER
MASS
57
AREA
1658
HEIGHT
750
30-Mar-2023
12:41
linh
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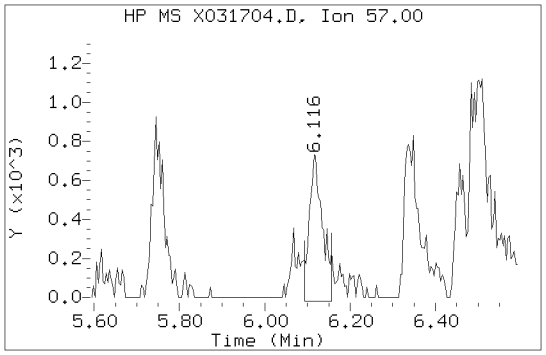

AFTER
MASS
49
AREA
808
HEIGHT
488
30-Mar-2023
12:41
linh
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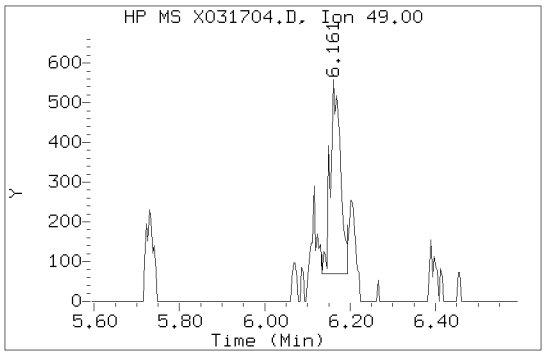

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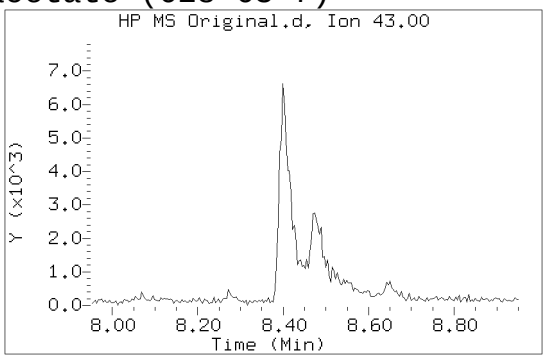
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

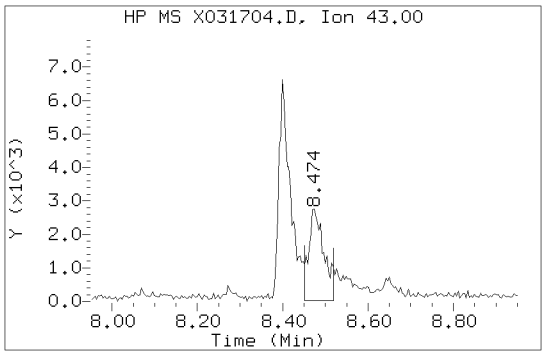
n-Amyl acetate (628-63-7)

Reason Code:

BEFORE
MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
43
AREA
6908
HEIGHT
2721
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
70
AREA
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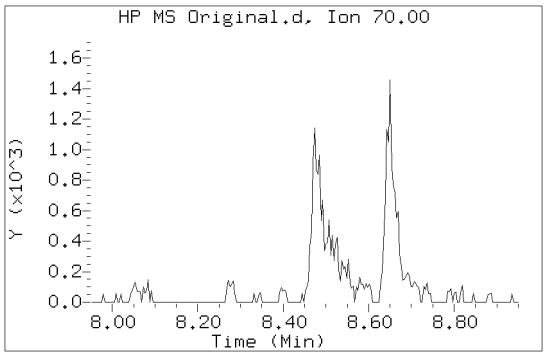
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
70
AREA
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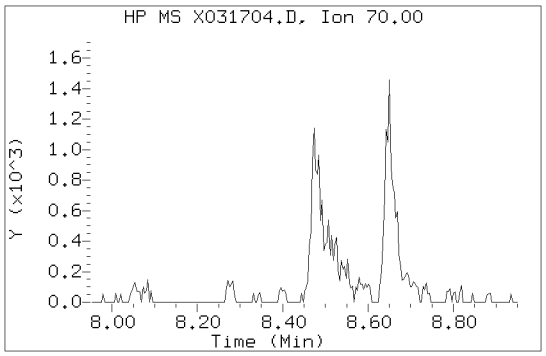
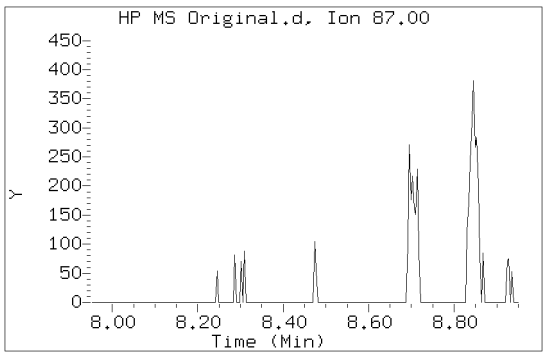
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
87
AREA
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HEIGHT
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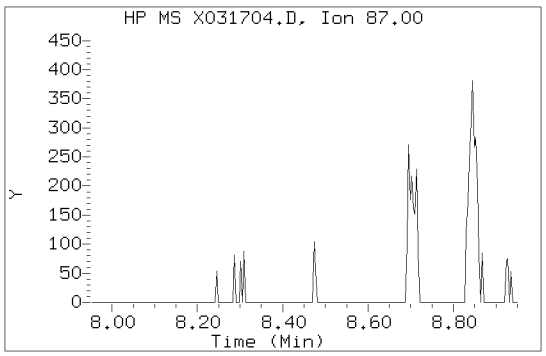
30-Mar-2023
12:41
linh
pham



Methyl Amyl Ketone (110-43-0)

Reason Code:

BEFORE
MASS
43
AREA
12465
HEIGHT
6550
30-Mar-2023
12:33
linh
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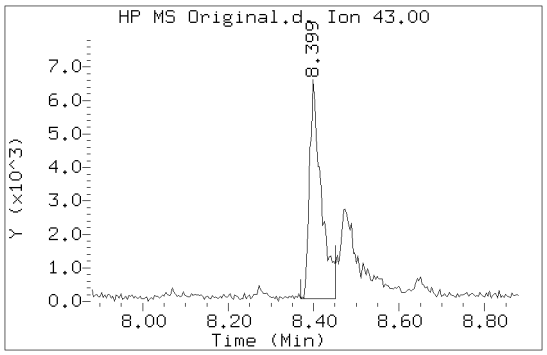
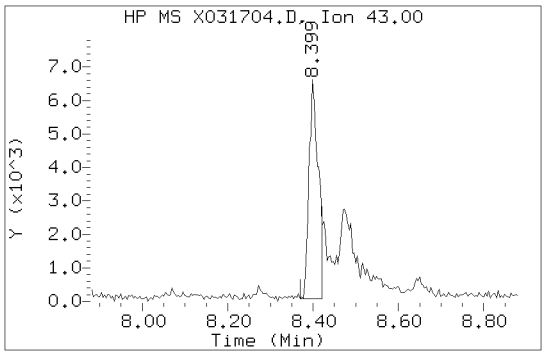


AFTER
MASS
43
AREA
9932
HEIGHT
6550
30-Mar-2023
12:41
linh
pham



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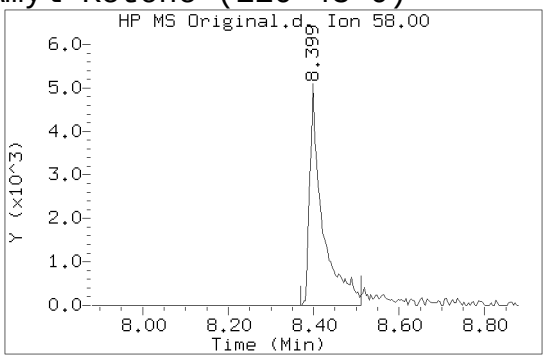
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Methyl Amyl Ketone (110-43-0)

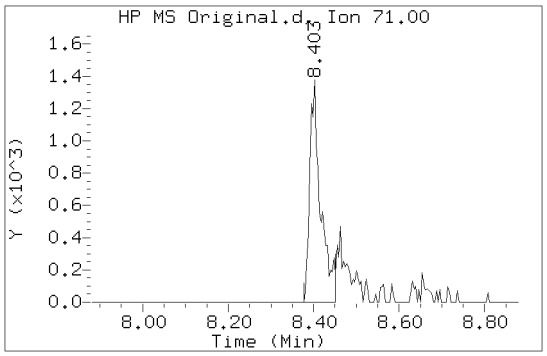
BEFORE

MASS
58
AREA
10632
HEIGHT
5098
30-Mar-2023
12:33
linh
pham



BEFORE

MASS
71
AREA
2444
HEIGHT
1378
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

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30-Mar-2023
12:41
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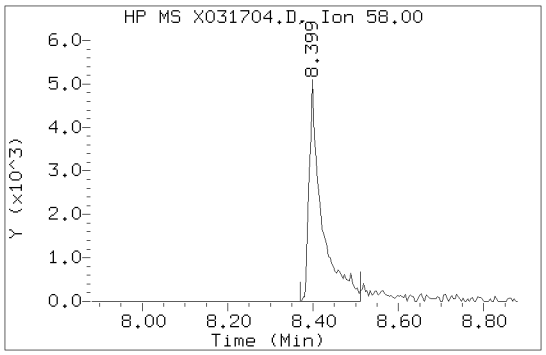
pham



AFTER

MASS
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2444
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30-Mar-2023
12:41
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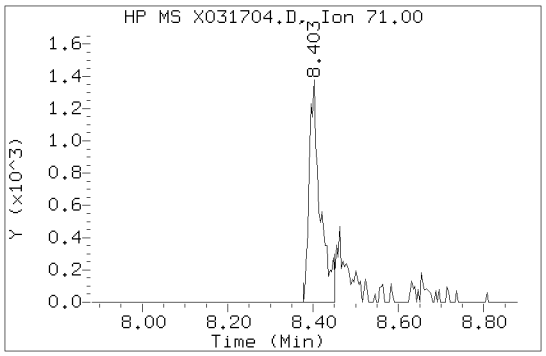

Dimethyl Disulfide (624-92-0)

BEFORE

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AREA
5811
HEIGHT
3131
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12:33
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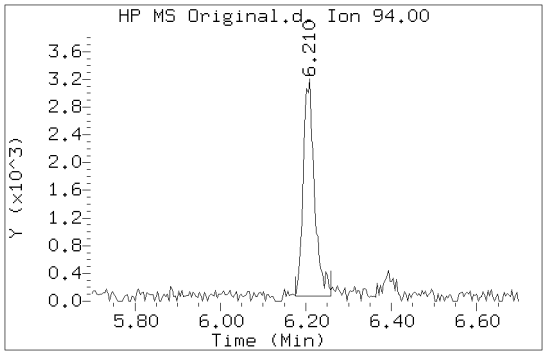
pham



BEFORE

MASS
79
AREA
3238
HEIGHT
1790
30-Mar-2023
12:33
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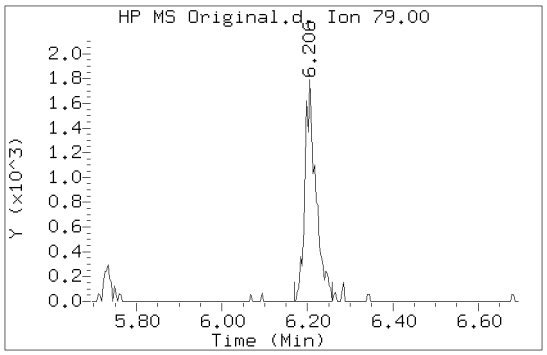
pham



Reason Code:

AFTER

MASS
94
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6718
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3207
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12:41
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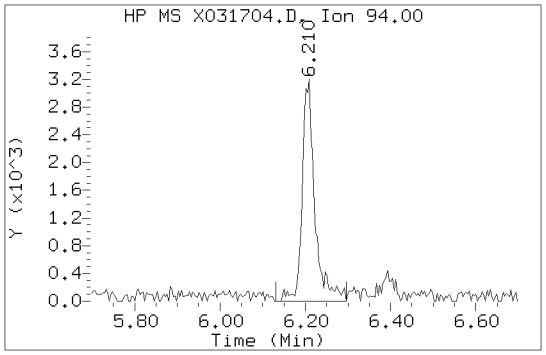

AFTER

MASS
79
AREA
3238
HEIGHT
1790
30-Mar-2023
12:41
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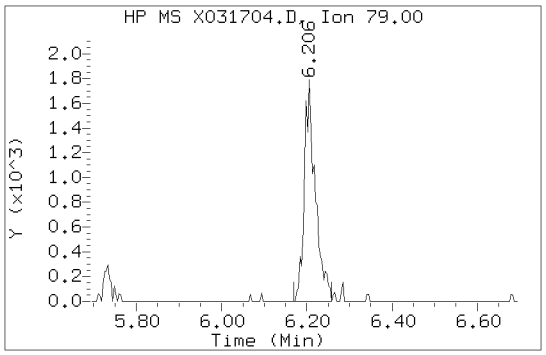
pham



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Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE

MASS
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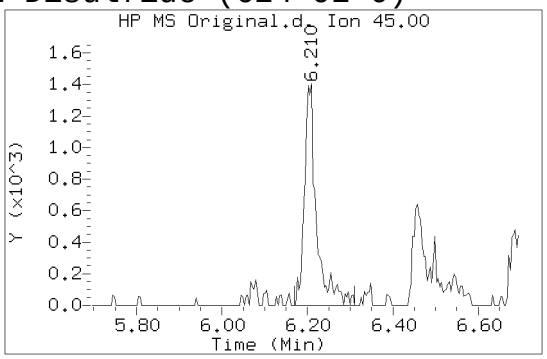
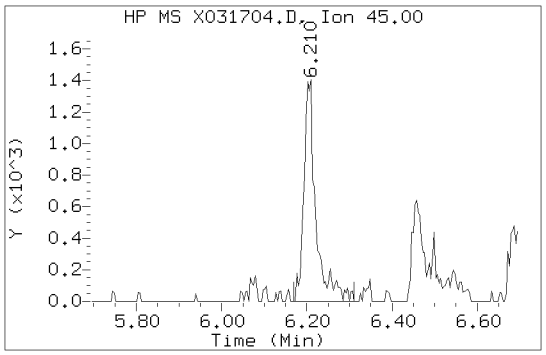
AREA
2788
HEIGHT
1405
30-Mar-2023
12:33
linh
pham



AFTER

MASS
45
AREA
2788
HEIGHT
1405
30-Mar-2023
12:41
linh
pham



Isobutylene (115-11-7)

Reason Code:

BEFORE

MASS
41
AREA
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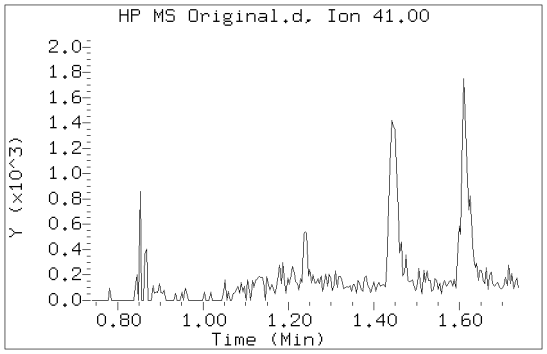
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
321
HEIGHT
439
30-Mar-2023
12:41
linh
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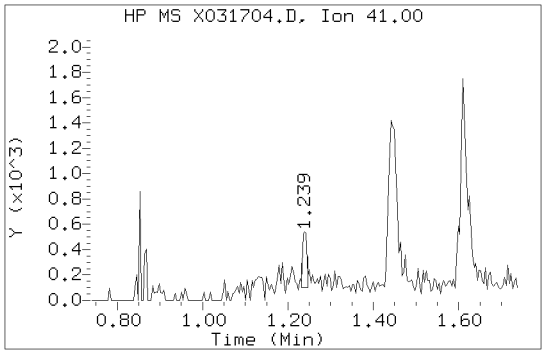
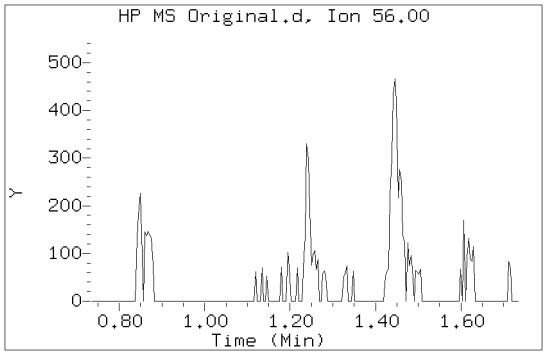


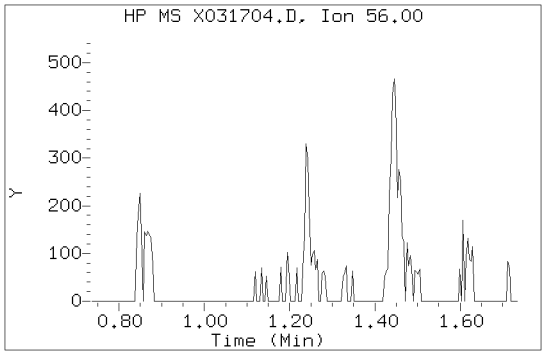
BEFORE

MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
84
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
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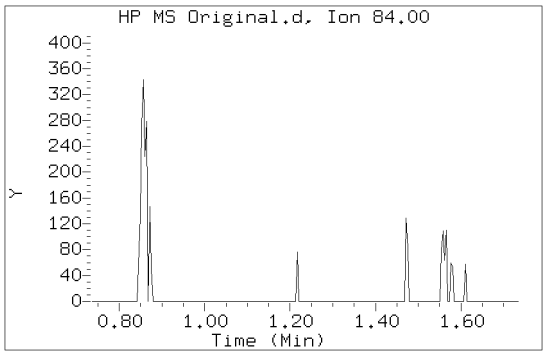

AFTER

MASS
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AREA
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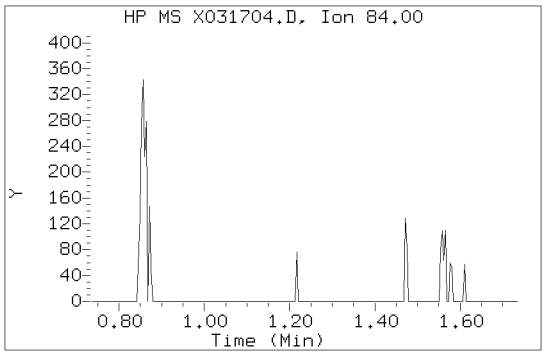
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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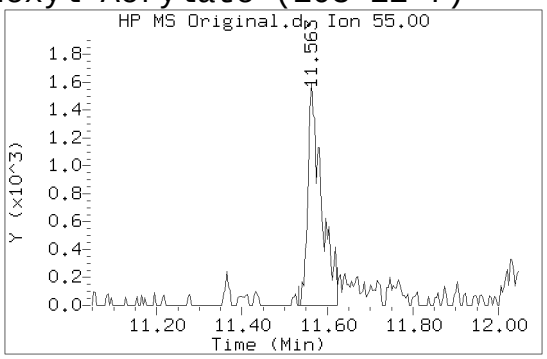
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE

MASS
55
AREA
3508
HEIGHT
1590
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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AREA
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HEIGHT
1590
30-Mar-2023
12:41
linh
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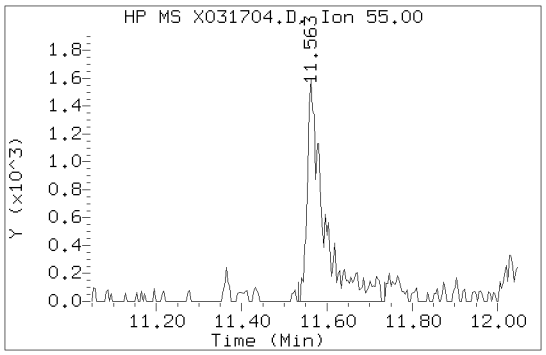

BEFORE

MASS
70
AREA
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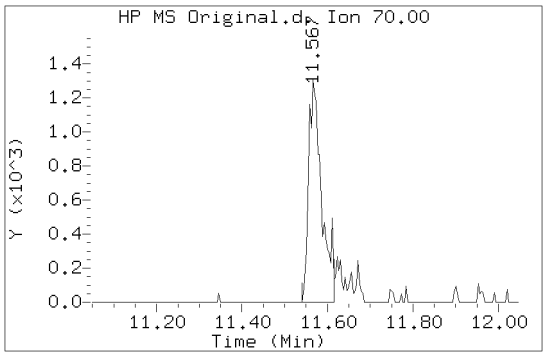
HEIGHT
1306
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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AREA
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HEIGHT
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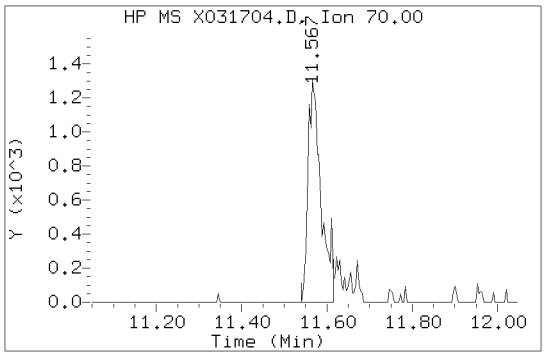
30-Mar-2023
12:41
linh
pham



Dibromofluoromethane (1868-53-7)

Reason Code:

BEFORE

MASS
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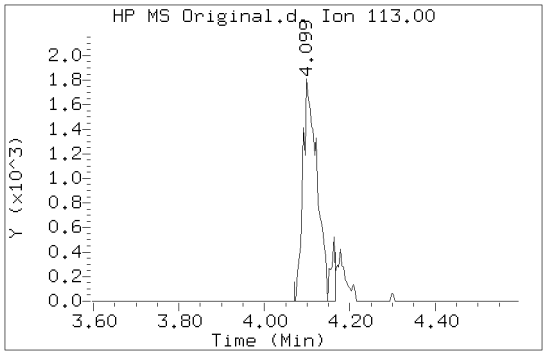
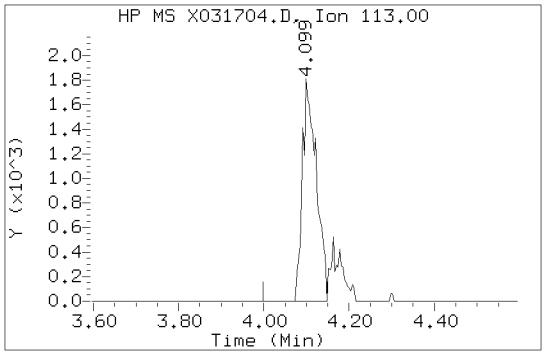
AREA
4489
HEIGHT
1810
30-Mar-2023
12:33
linh
pham



AFTER

MASS
113
AREA
4137
HEIGHT
1810
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
111
AREA
4274
HEIGHT
2037
30-Mar-2023
12:33
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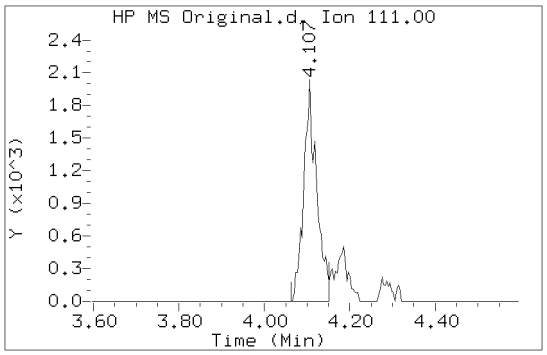
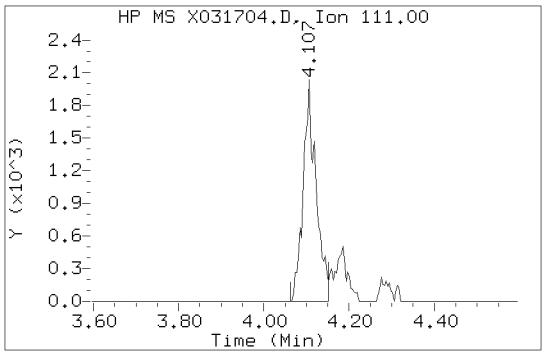
pham



AFTER

MASS
111
AREA
4274
HEIGHT
2037
30-Mar-2023
12:41
linh
pham



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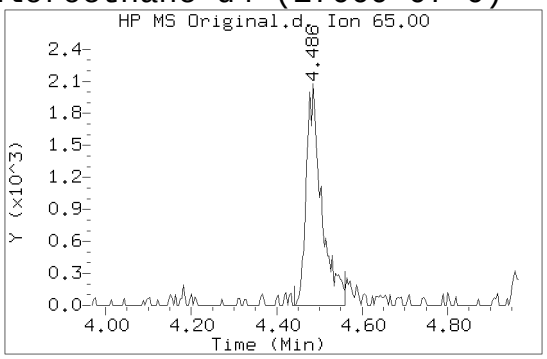
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

BEFORE

MASS
65
AREA
5164
HEIGHT
2078
30-Mar-2023
12:33
linh
pham



AFTER

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12:41
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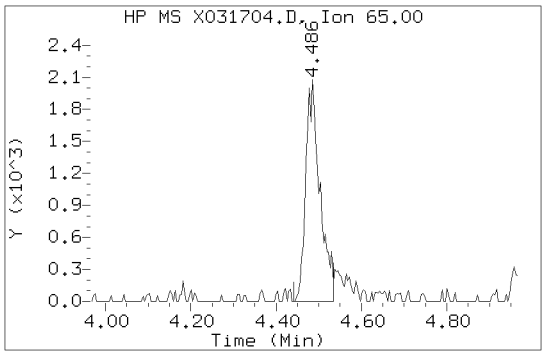
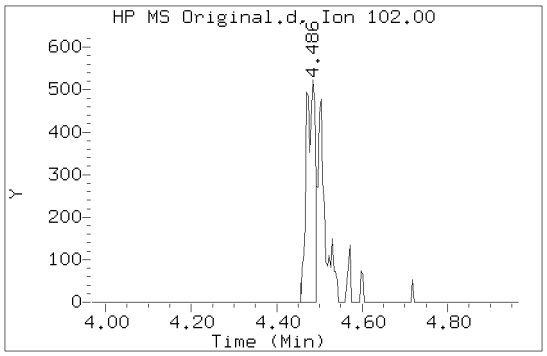


BEFORE

MASS
102
AREA
769
HEIGHT
523
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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AREA
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HEIGHT
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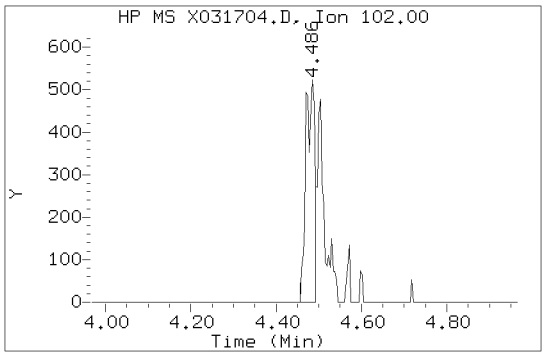
30-Mar-2023
12:41
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D Page 1
Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
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Inj Date : 17-MAR-2023 12:53
Operator : PC Inst ID: voa6.i
Smp Info : VSTD002;VSTD002;1;4;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 12:32 Cal File: X031704.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.178	4.178	(1.000)	364659	50.0000	
2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	5239	2.00000	2.73(M)
3	Chloromethane	50	1.077	1.077	(0.258)	6153	2.00000	1.83
4	Propionitrile	54	3.671	3.671	(0.879)	10016	20.0000	19.49(a)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	5931	2.00000	2.06
6	Bromomethane	94	1.340	1.340	(0.321)	3119	2.00000	1.88
7	Chloroethane	64	1.407	1.407	(0.337)	4308	2.00000	2.11(M)
8	Trichlorofluoromethane	101	1.561	1.561	(0.374)	6844	2.00000	2.00(M)
9	Acrolein	56	1.449	1.449	(0.347)	794	4.00000	6.82(aM)
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	4645	2.00000	2.12(M)
12	Isobutyl Alcohol	43	4.684	4.684	(1.121)	21441	40.0000	43.09(a)
13	Acetonitrile	39	2.202	2.202	(0.527)	6575	20.0000	19.37(a)
14	Allyl Chloride	41	2.206	2.206	(0.528)	17508	2.00000	2.08(aM)
15	Iodomethane	142	2.026	2.026	(0.485)	2950	4.00000	10.35(TM)
16	Acrylonitrile	53	2.566	2.566	(0.614)	5007	4.00000	4.11(M)
17	Methylene Chloride	84	2.303	2.303	(0.551)	8273	2.00000	0.67(M)
18	Methyl tert-butyl ether	73	2.536	2.536	(0.607)	25413	2.00000	2.20
19	Carbon Disulfide	76	2.071	2.071	(0.496)	33469	4.00000	4.15(M)
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	6559	2.00000	2.12
21	Vinyl Acetate	43	3.012	3.012	(0.721)	36411	4.00000	3.91

22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	12119	2.00000	2.16
23 Chloroprene	53	1.775	1.775 (0.425)	2193	2.00000	2.19(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24 2-Butanone	43	3.653	3.653	(0.874)	4883	4.00000	3.73(M)
	25 Methacrylonitrile	41	3.855	3.855	(0.923)	6754	2.00000	2.00(aM)
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	9195	2.00000	1.84(M)
	27 cis-1,2-Dichloroethene	96	3.533	3.533	(0.846)	7938	2.00000	2.12(M)
	28 Chloroform	83	3.908	3.908	(0.935)	13260	2.00000	2.13
	29 Bromochloromethane	128	3.806	3.806	(0.911)	4554	2.00000	2.15
$	30 Dibromofluoromethane	113	4.103	4.103	(0.982)	8112	2.00000	1.65
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	10154	2.00000	2.18
	32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	8943	2.00000	2.09
	33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	9905	2.00000	1.99
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	8608	2.00000	2.10
$	35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.072)	8436	2.00000	3.14(M)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	597443	50.0000	
	37 Benzene	78	4.519	4.519	(0.910)	31278	2.00000	2.12
	38 Trichloroethene	130	5.212	5.212	(1.050)	8163	2.00000	2.06(a)
	39 Bromodichloromethane	83	5.729	5.729	(1.154)	10361	2.00000	1.98(a)
	40 Methyl Methacrylate	41	5.628	5.628	(1.347)	6140	2.00000	1.88(a)
	41 2-Chloroethylvinyl ether	63	6.063	6.063	(1.221)	5896	4.00000	3.71(a)
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	7975	2.00000	2.01(aM)
	43 2-Nitropropane	43	5.981	5.981	(1.432)	2524	2.00000	2.20(aH)
	44 Dibromomethane	93	5.553	5.553	(1.119)	5441	2.00000	2.15(a)
	45 4-Methyl-2-Pentanone	43	6.337	6.337	(0.826)	14850	4.00000	4.06(a)
	46 cis-1,3-Dichloropropene	75	6.164	6.164	(1.242)	12938	2.00000	1.96(a)
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	576718	50.0000	
$	48 Toluene-d8	98	6.393	6.393	(0.834)	30210	2.00000	2.11(a)
	49 Ethyl Methacrylate	69	6.719	6.719	(1.353)	8792	2.00000	1.99(aM)
	50 Toluene	91	6.453	6.453	(0.842)	30980	2.00000	2.04(a)
	51 trans-1,3-Dichloropropene	75	6.697	6.697	(1.349)	10834	2.00000	1.98(a)
	52 2-Hexanone	43	7.101	7.101	(0.926)	9933	4.00000	3.96(a)
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	6985	2.00000	2.12(a)
	54 1,3-Dichloropropane	76	6.989	6.989	(0.912)	12902	2.00000	1.97(a)
	55 Dibromochloromethane	129	7.180	7.180	(0.936)	9156	2.00000	1.97(a)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	6397	2.00000	2.10(a)
	57 1,2-Dibromoethane	107	7.266	7.266	(0.948)	8051	2.00000	1.97(a)
	58 1-Chlorohexane	55	7.701	7.701	(1.551)	5763	2.00000	4.16(aM)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	21632	2.00000	2.00(a)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	7846	2.00000	1.88(a)
	61 Ethylbenzene	106	7.802	7.802	(1.018)	10767	2.00000	2.02(a)
	62 m,p-Xylenes	106	7.907	7.907	(1.031)	28543	4.00000	4.26(a)
	63 o-Xylene	106	8.249	8.249	(1.076)	13509	2.00000	2.00(a)
	64 Styrene	104	8.275	8.275	(1.079)	22147	2.00000	1.99(a)
	66 Bromoform	173	8.417	8.417	(1.098)	5755	2.00000	1.79(Ta)
	67 Isopropylbenzene	105	8.563	8.563	(1.117)	33960	2.00000	2.20(a)
	68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	11107	2.00000	2.02(a)
$	69 4-Bromofluorobenzene	95	8.698	8.698	(1.134)	12929	2.00000	2.19(a)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	315380	50.0000	
	71 1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	8328	2.00000	2.01(aM)
	72 trans-1,4-Dichloro-2-butene	53	8.912	8.912	(1.162)	1998	2.00000	2.06(aM)
	73 n-Propylbenzene	91	8.916	8.916	(0.923)	37463	2.00000	2.13(a)
	74 Bromobenzene	156	8.811	8.811	(0.912)	10245	2.00000	2.02(a)
	75 1,3,5-Trimethylbenzene	105	9.070	9.070	(0.939)	28741	2.00000	2.11(a)
	76 2-Chlorotoluene	91	8.976	8.976	(0.929)	25156	2.00000	2.13(aM)

77	4-Chlorotoluene	91	9.081	9.081 (0.940)	27602	2.00000	2.07(a)
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	23670	2.00000	2.18(aM)

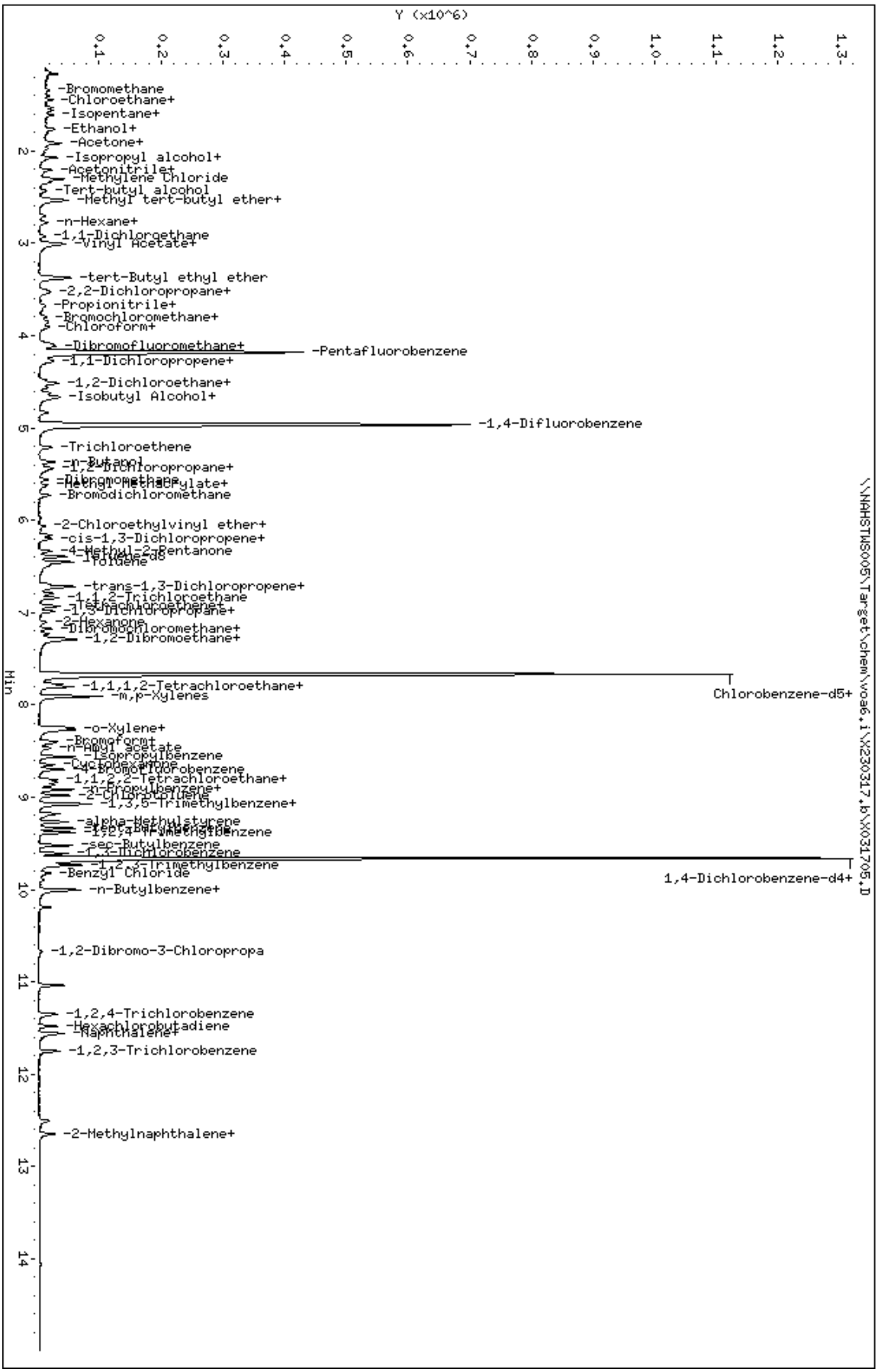
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.384	9.384	(0.971)	28719	2.00000	2.05(aM)
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	32067	2.00000	2.18(aM)
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	27213	2.00000	2.07(aM)
83	1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	18159	2.00000	2.07(a)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	19879	2.00000	2.10(a)
86	Benzyl Chloride	91	9.823	9.823	(1.281)	13841	2.00000	3.01(a)
87	n-Butylbenzene	91	10.003	10.003	(1.035)	21203	2.00000	2.00(aM)
88	1,2-Dichlorobenzene	146	9.999	9.999	(1.035)	17795	2.00000	2.02(aM)
89	1,2-Dibromo-3-Chloropropane	155	10.681	10.681	(1.106)	1655	2.00000	3.06(a)
90	1,2,4-Trichlorobenzene	180	11.352	11.352	(1.175)	12885	2.00000	2.00(a)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	5380	2.00000	3.98(aM)
92	Naphthalene	128	11.559	11.559	(1.196)	27823	2.00000	1.80(a)
93	1,2,3-Trichlorobenzene	180	11.754	11.754	(1.216)	12110	2.00000	1.97(a)
146	Methyl acetate	43	2.243	2.243	(0.537)	4084	2.00000	1.94(a)
138	Freon TF	101	1.917	1.917	(0.459)	4071	2.00000	3.24(aM)
141	Cyclohexane	56	4.118	4.118	(0.986)	7493	2.00000	3.68(aM)
142	Tetrahydrofuran	42	3.863	3.863	(0.925)	2463	4.00000	4.13(aM)
147	Methylcyclohexane	55	5.407	5.407	(1.089)	16726	2.00000	2.02(aM)
135	1,4-Dioxane	88	5.610	5.610	(1.343)	1966	40.0000	40.63(M)
132	n-Butanol	56	5.366	5.366	(1.284)	3165	40.0000	64.20(aM)
131	Methyl Acrylate	55	3.731	3.731	(0.893)	7555	2.00000	2.00(aM)
133	Ethyl Acrylate	55	5.407	5.407	(1.294)	15497	2.00000	1.94(M)
136	n-Hexane	57	2.772	2.772	(0.664)	5204	2.00000	2.77(aM)
139	Diethyl ether	59	1.756	1.756	(0.420)	4986	2.00000	2.04(aM)
148	Tert-butyl alcohol	59	2.434	2.434	(0.583)	16456	40.0000	43.09
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	8264	40.0000	40.49
156	Diisopropyl ether	45	3.004	3.004	(0.719)	24334	2.00000	2.14(Ta)
160	2-Methylnaphthalene	142	12.649	12.649	(1.309)	13999	2.00000	1.83
166	1,2,3-Trimethylbenzene	105	9.733	9.733	(1.007)	31975	2.00000	2.11(a)
167	Ethanol	45	1.696	1.696	(0.406)	1323	40.0000	40.45
172	tert-Butyl formate	59	4.624	4.624	(1.107)	11320	4.00000	3.80(aM)
173	3,3-Dimethyl-1-butanol	57	7.293	7.293	(0.951)	18400	40.0000	41.40(M)
174	tert-Amyl methyl ether	73	4.669	4.669	(1.118)	26677	2.00000	2.04(aM)
175	tert-Butyl ethyl ether	59	3.372	3.372	(0.807)	24578	2.00000	2.07(aM)
176	tert-Amyl alcohol	59	4.624	4.624	(1.107)	12773	40.0000	40.93(M)
151	4-Methyl-2-pentanol	45	6.719	6.719	(1.353)	32931	40.0000	37.76(M)
180	1-Methylnaphthalene	142	12.649	12.649	(1.309)	13999	2.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	5210	2.00000	2.10(a)
152	Amyl alcohol	42	6.933	6.933	(0.904)	3699	40.0000	35.58(M)
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	9922	2.00000	2.19(M)
159	Propylene oxide	43	1.801	1.801	(0.431)	847	4.00000	3.72(a)
161	3-Methyl-1-butanol	55	6.959	6.959	(0.908)	3723	40.0000	36.98(M)
162	Butyl acrylate	55	8.267	8.267	(1.078)	15986	2.00000	1.87(a)
182	Epichlorohydrin	57	6.108	6.108	(1.230)	2850	8.00000	8.36
M 94	1,2-Dichloroethylene (total)	96				14497	4.00000	(a)
130	Ethyl Acetate	43	3.679	3.679	(0.881)	7453	2.00000	1.97(aM)
134	Cyclohexanone	55	8.646	8.646	(0.895)	7426	40.0000	39.64(aM)
185	Isoprene	39	1.771	1.771	(0.424)	1305	2.00000	1.86(aM)
188	Isopropyl acetate	43	4.684	4.684	(0.943)	21441	2.00000	1.98(a)
187	n-Amyl acetate	43	8.466	8.466	(1.104)	13808	2.00000	1.92(aM)
189	n-Butyl acetate	43	7.229	7.229	(0.943)	11156	2.00000	1.82(aM)
150	Allyl alcohol	57	2.772	2.772	(0.664)	4552	40.0000	48.82(M)

194 Acetaldehyde	44	1.209	1.209 (0.289)	3379	8.00000	14.77(M)
195 Methyl Amyl Ketone	43	8.395	8.395 (1.095)	17942	2.00000	1.96(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
200 Dimethyl Disulfide	94	6.202	6.202	(0.809)	12235	2.00000	1.62(a)
202 Isobutylene	41	1.246	1.246	(0.298)	607	2.00000	2.00(aM)
205 2-Ethylhexyl Acrylate	55	11.562	11.562	(1.197)	8380	2.00000	1.79(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

Reason Code:

BEFORE

MASS
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5866
HEIGHT
6097
30-Mar-2023
12:33
linh
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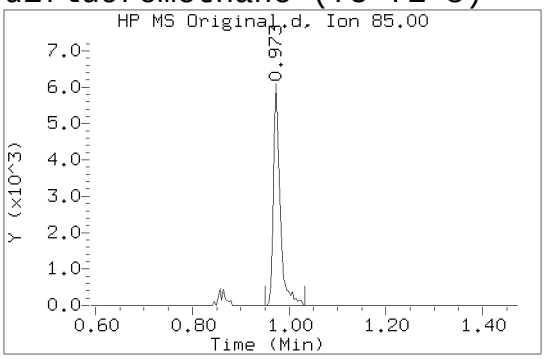

AFTER

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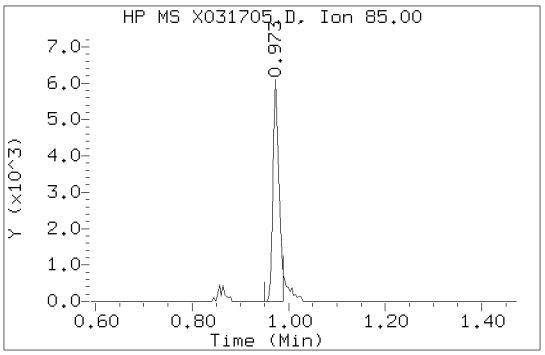

BEFORE

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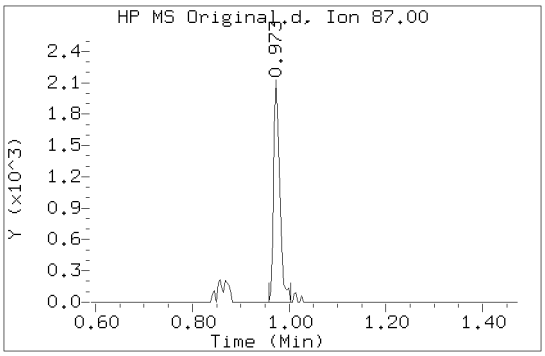

AFTER

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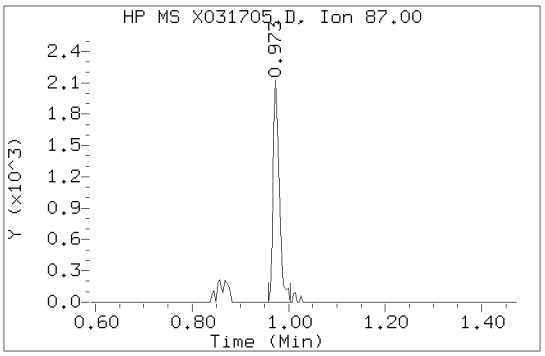

Chloroethane (75-00-3)

Reason Code:

BEFORE

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30-Mar-2023
12:33
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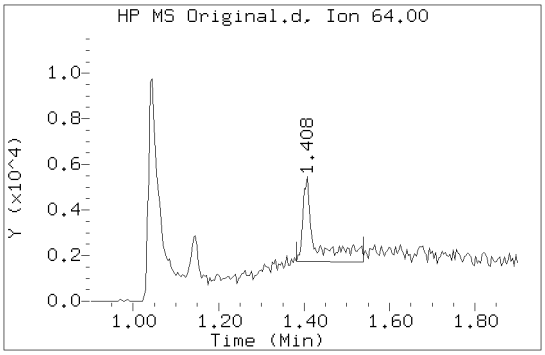
pham



AFTER

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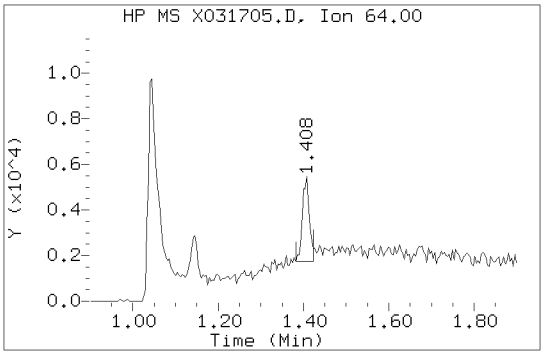

BEFORE

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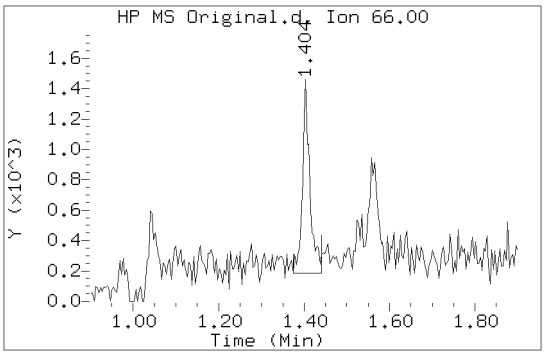

AFTER

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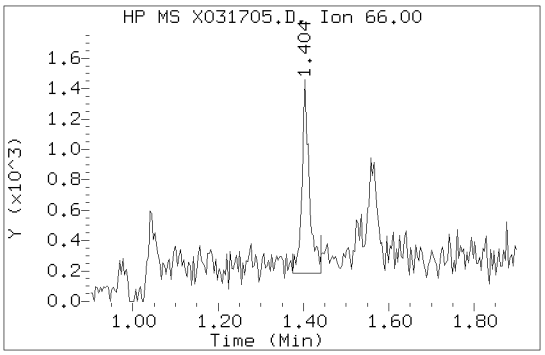

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Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Trichlorofluoromethane (75-69-4)

Reason Code:

BEFORE
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HEIGHT
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30-Mar-2023
12:33
linh
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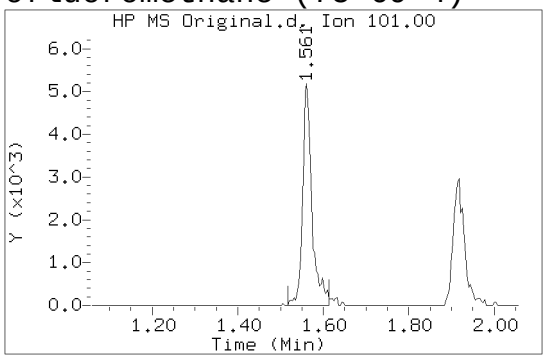

AFTER
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AREA
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30-Mar-2023
12:41
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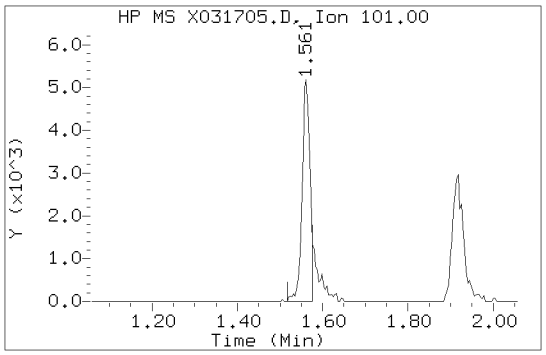

BEFORE
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30-Mar-2023
12:33
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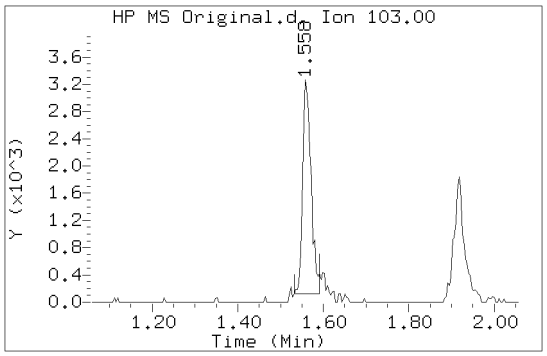

AFTER
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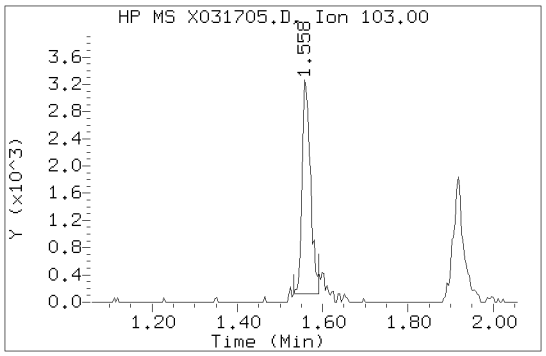

Acetone (67-64-1)

Reason Code:

BEFORE
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HEIGHT
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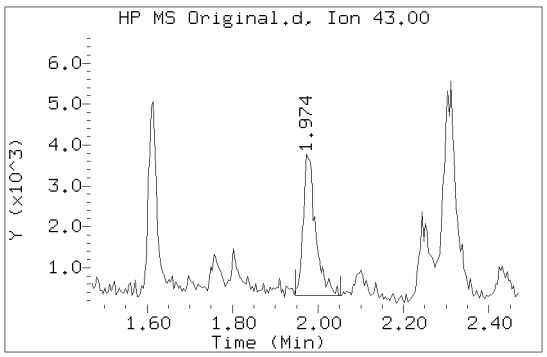

AFTER
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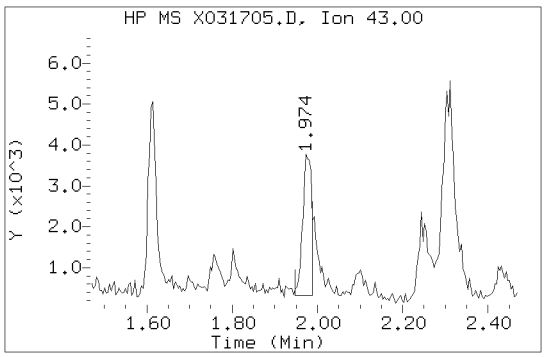

BEFORE
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30-Mar-2023
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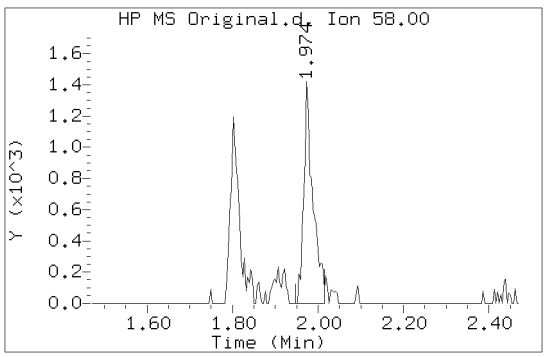

AFTER
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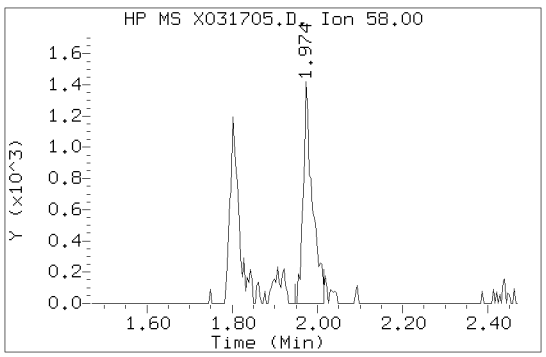

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InstruID : voa6.i
LabSampID : VSTD002

1,1-Dichloroethene (75-35-4)

Reason Code:

BEFORE

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AREA
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HEIGHT
3028
30-Mar-2023
12:33
linh
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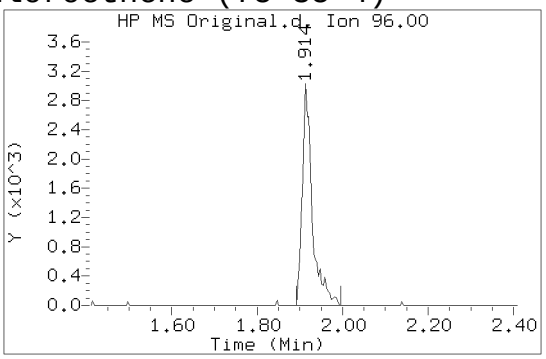

AFTER

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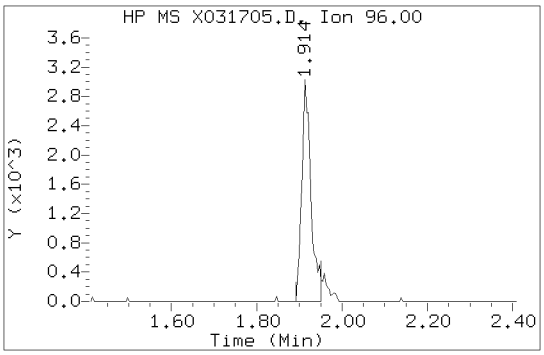

BEFORE

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30-Mar-2023
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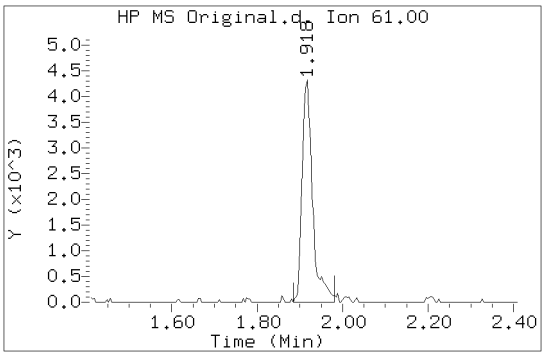

AFTER

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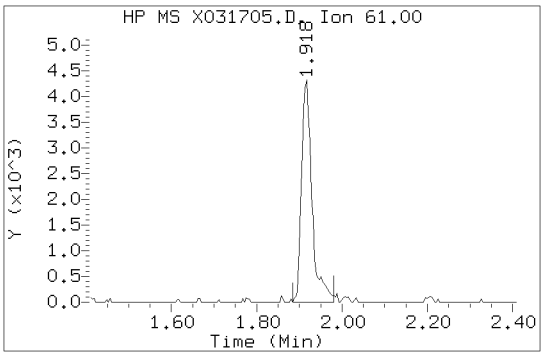

BEFORE

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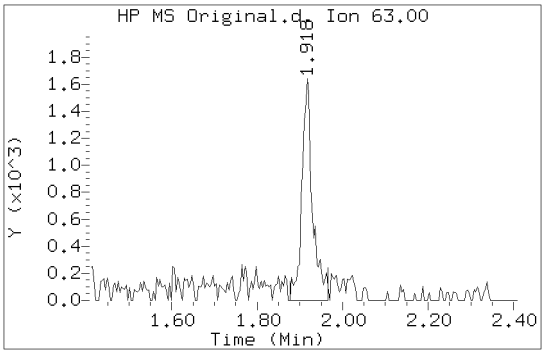

AFTER

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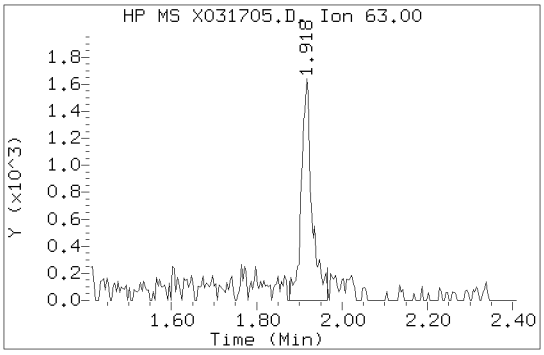
AREA
2901
HEIGHT
1641
30-Mar-2023
12:41
linh
pham

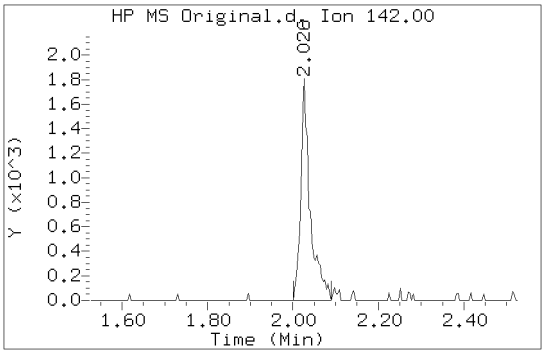


Iodomethane (74-88-4)

Reason Code:

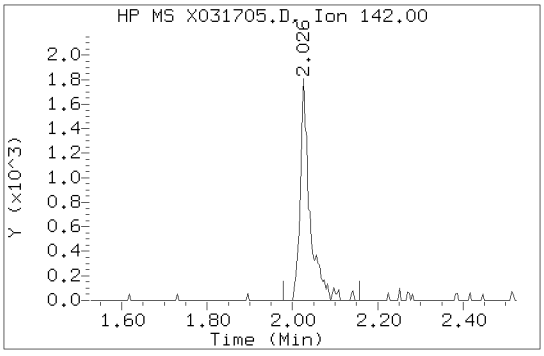
BEFORE

MASS
142
AREA
2838
HEIGHT
1808
30-Mar-2023
12:33
linh
pham



AFTER

MASS
142
AREA
2950
HEIGHT
1808
30-Mar-2023
12:41
linh
pham



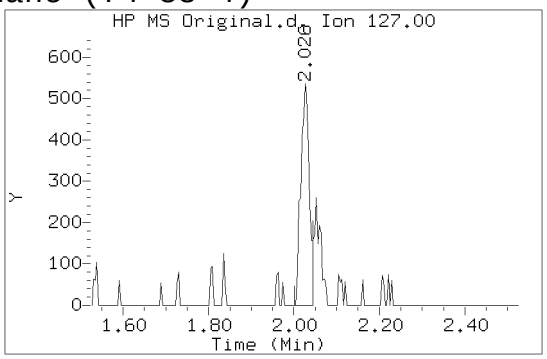
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Iodomethane (74-88-4)

Reason Code:

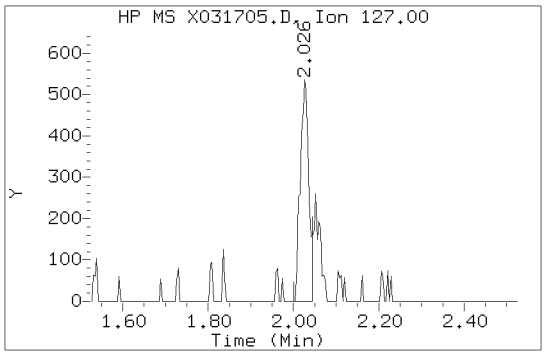
BEFORE

MASS
127
AREA
774
HEIGHT
536
30-Mar-2023
12:33
linh
pham



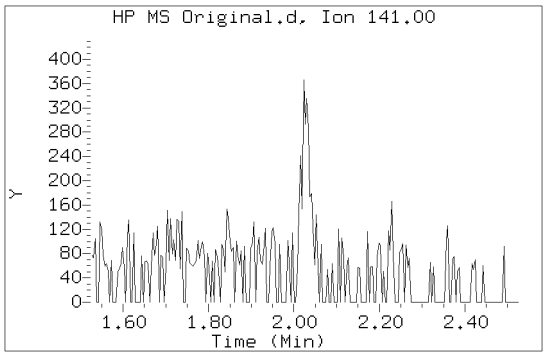
AFTER

MASS
127
AREA
774
HEIGHT
536
30-Mar-2023
12:41
linh
pham



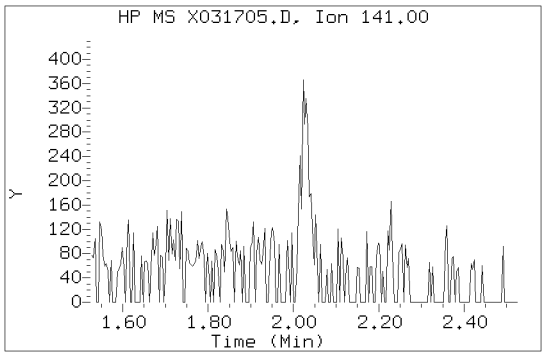
BEFORE

MASS
141
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
141
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

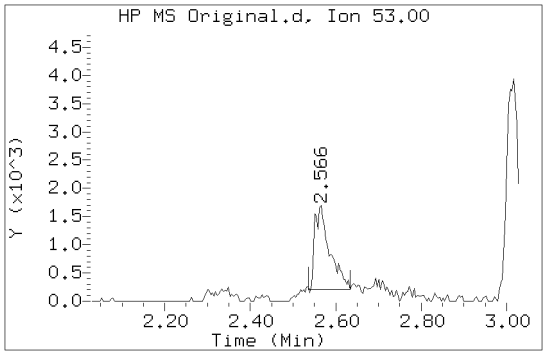


Acrylonitrile (107-13-1)

Reason Code:

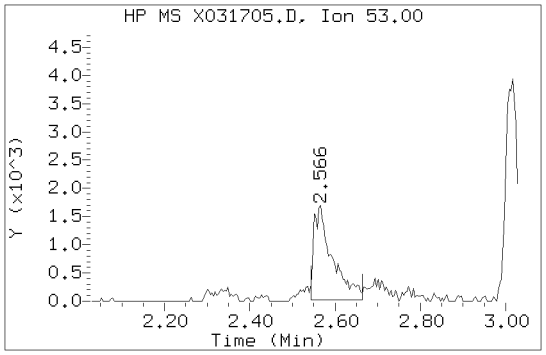
BEFORE

MASS
53
AREA
3622
HEIGHT
1489
30-Mar-2023
12:33
linh
pham



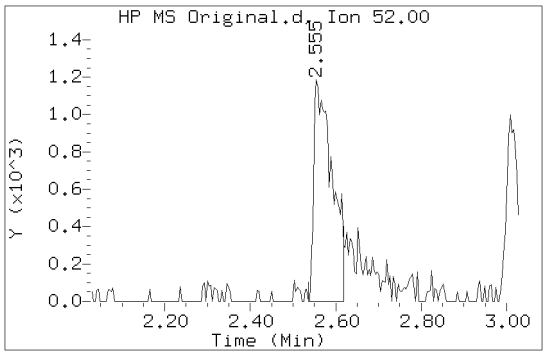
AFTER

MASS
53
AREA
5007
HEIGHT
1665
30-Mar-2023
12:41
linh
pham



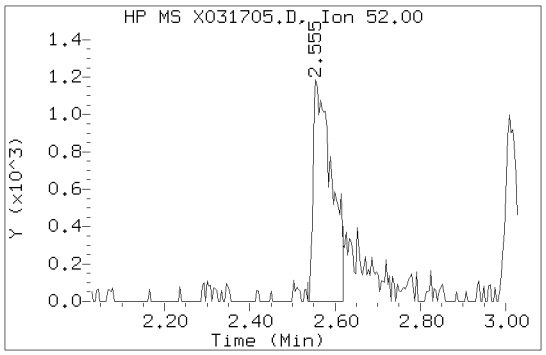
BEFORE

MASS
52
AREA
3529
HEIGHT
1186
30-Mar-2023
12:33
linh
pham



AFTER

MASS
52
AREA
3529
HEIGHT
1186
30-Mar-2023
12:41
linh
pham



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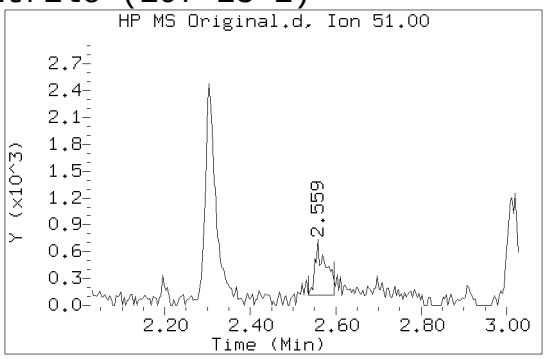
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Acrylonitrile (107-13-1)

Reason Code:

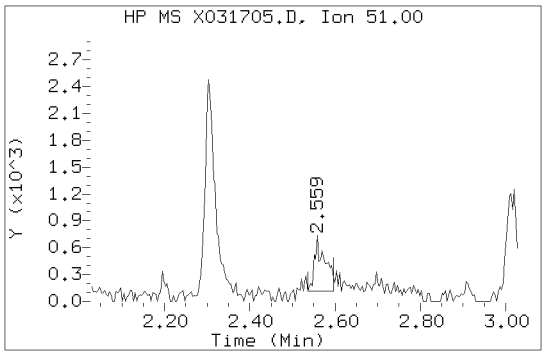
BEFORE

MASS
51
AREA
1061
HEIGHT
622
30-Mar-2023
12:33
linh
pham



AFTER

MASS
51
AREA
1061
HEIGHT
622
30-Mar-2023
12:41
linh
pham

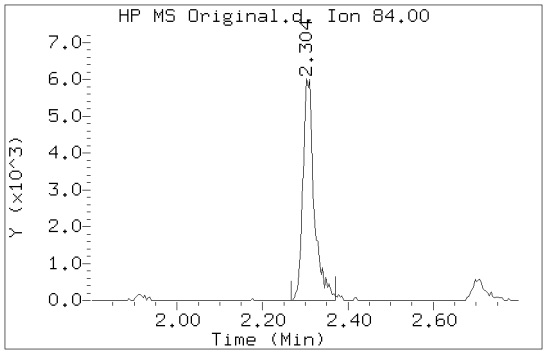


Methylene Chloride (75-09-2)

Reason Code:

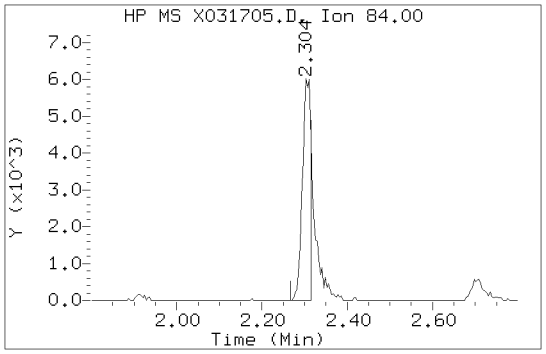
BEFORE

MASS
84
AREA
11285
HEIGHT
6022
30-Mar-2023
12:33
linh
pham



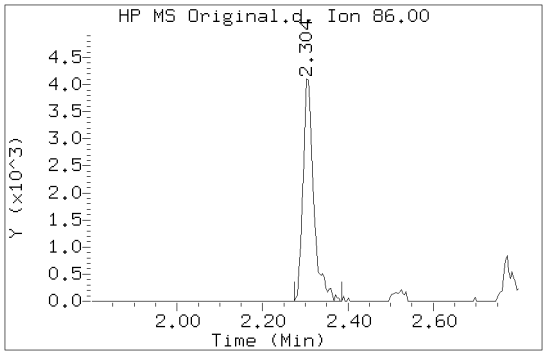
AFTER

MASS
84
AREA
8273
HEIGHT
6022
30-Mar-2023
12:41
linh
pham



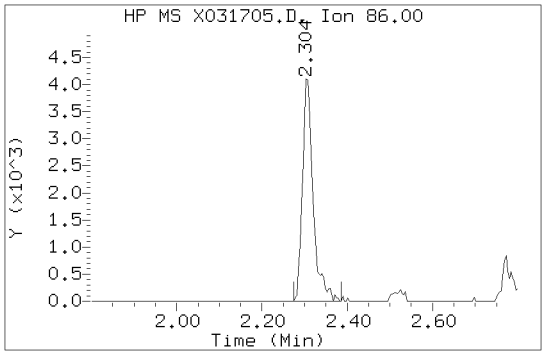
BEFORE

MASS
86
AREA
7326
HEIGHT
4107
30-Mar-2023
12:33
linh
pham



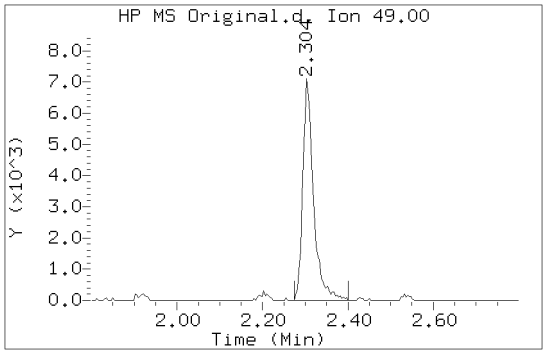
AFTER

MASS
86
AREA
7326
HEIGHT
4107
30-Mar-2023
12:41
linh
pham



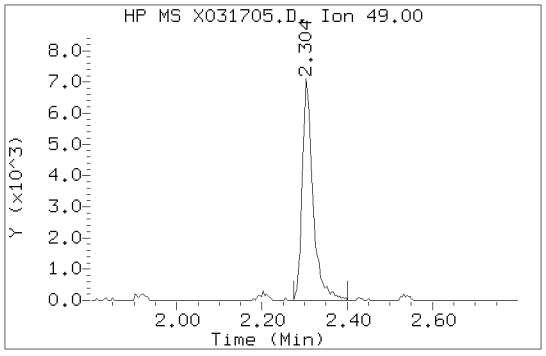
BEFORE

MASS
49
AREA
12668
HEIGHT
7105
30-Mar-2023
12:33
linh
pham



AFTER

MASS
49
AREA
12668
HEIGHT
7105
30-Mar-2023
12:41
linh
pham

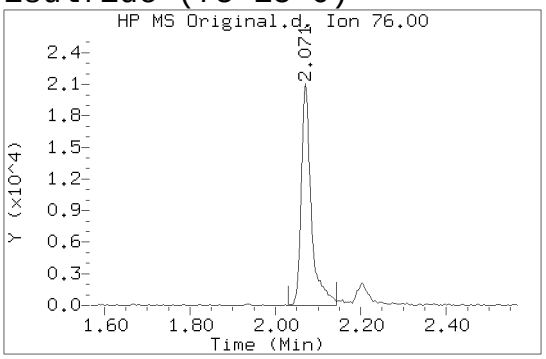


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Carbon Disulfide (75-15-0)

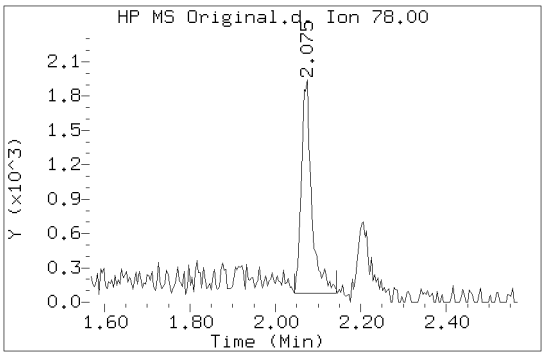
BEFORE

MASS
76
AREA
35108
HEIGHT
21056
30-Mar-2023
12:33
linh
pham



BEFORE

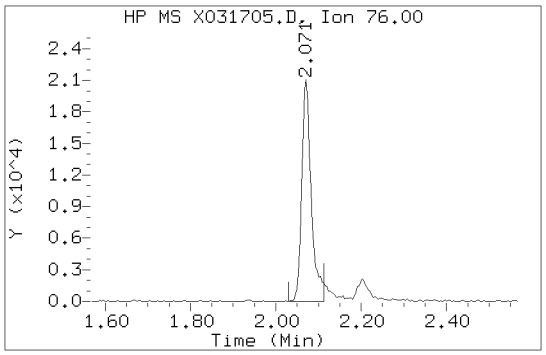
MASS
78
AREA
3221
HEIGHT
1865
30-Mar-2023
12:33
linh
pham



Reason Code:

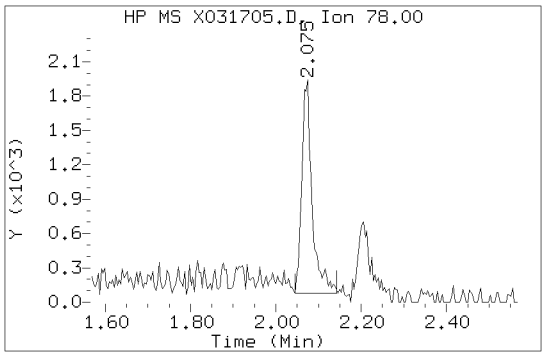
AFTER

MASS
76
AREA
33469
HEIGHT
21056
30-Mar-2023
12:41
linh
pham



AFTER

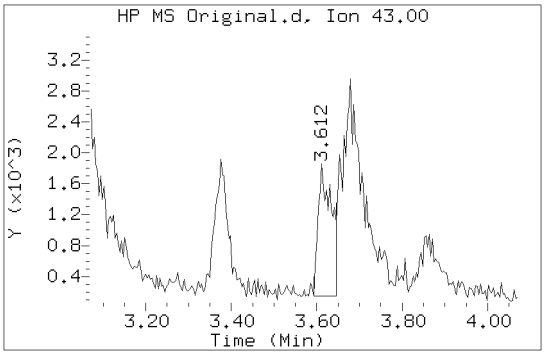
MASS
78
AREA
3221
HEIGHT
1865
30-Mar-2023
12:41
linh
pham



2-Butanone (78-93-3)

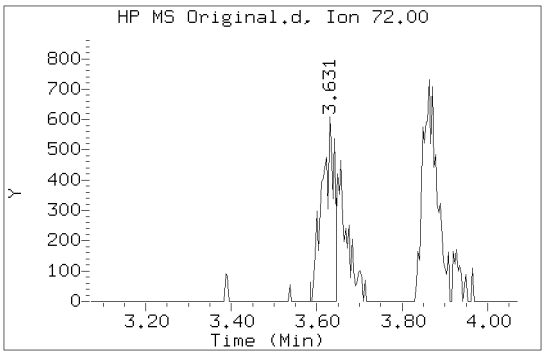
BEFORE

MASS
43
AREA
3635
HEIGHT
1711
30-Mar-2023
12:33
linh
pham



BEFORE

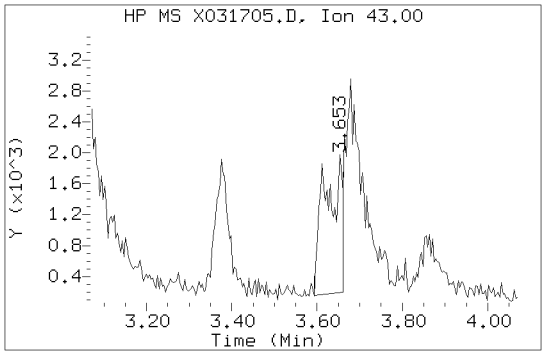
MASS
72
AREA
1194
HEIGHT
609
30-Mar-2023
12:33
linh
pham



Reason Code:

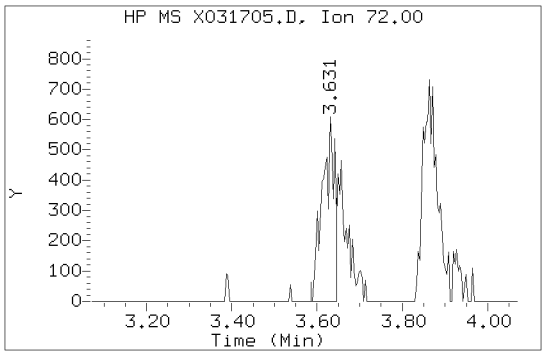
AFTER

MASS
43
AREA
4883
HEIGHT
1780
30-Mar-2023
12:41
linh
pham



AFTER

MASS
72
AREA
1194
HEIGHT
609
30-Mar-2023
12:41
linh
pham



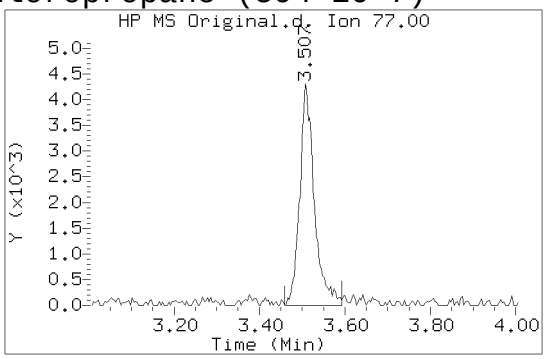
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

2,2-Dichloropropane (594-20-7)

Reason Code:

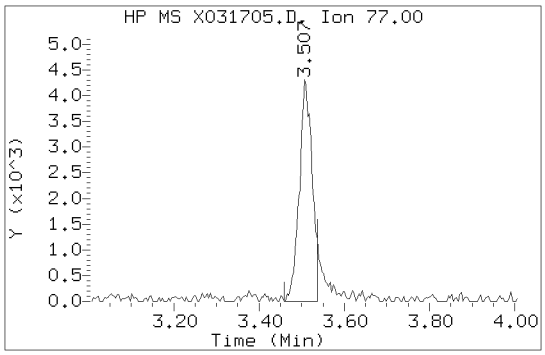
BEFORE

MASS
77
AREA
10396
HEIGHT
4310
30-Mar-2023
12:33
linh
pham



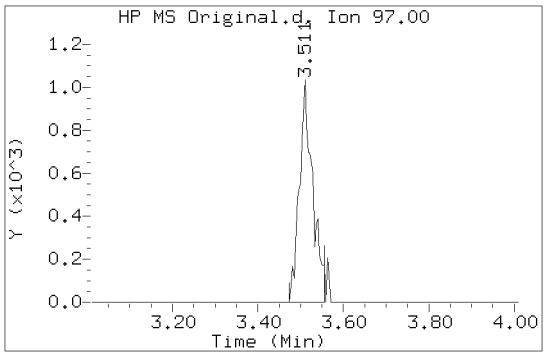
AFTER

MASS
77
AREA
9195
HEIGHT
4310
30-Mar-2023
12:41
linh
pham



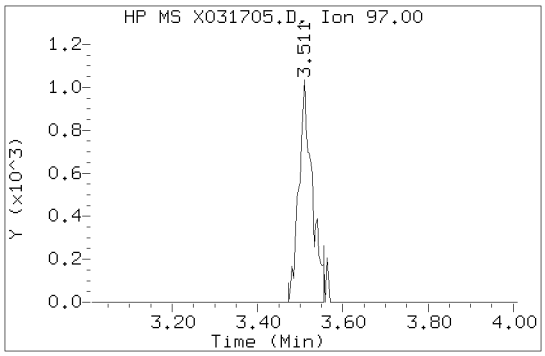
BEFORE

MASS
97
AREA
2276
HEIGHT
1035
30-Mar-2023
12:33
linh
pham



AFTER

MASS
97
AREA
2276
HEIGHT
1035
30-Mar-2023
12:41
linh
pham

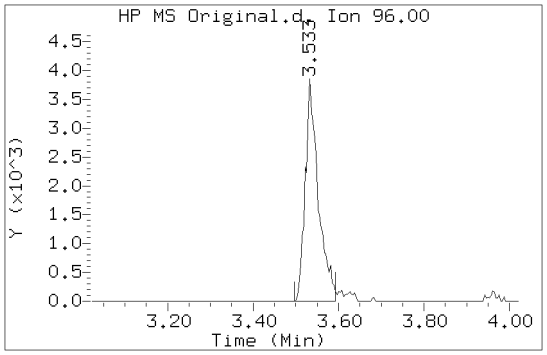


cis-1,2-Dichloroethene (156-59-2)

Reason Code:

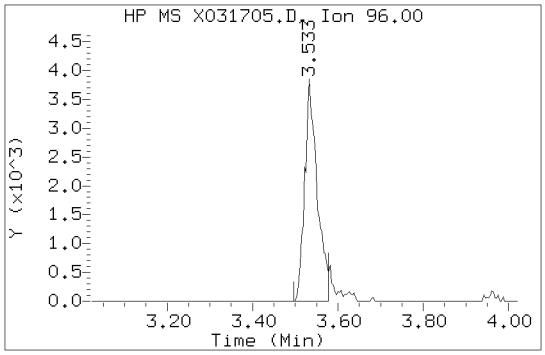
BEFORE

MASS
96
AREA
8249
HEIGHT
3854
30-Mar-2023
12:33
linh
pham



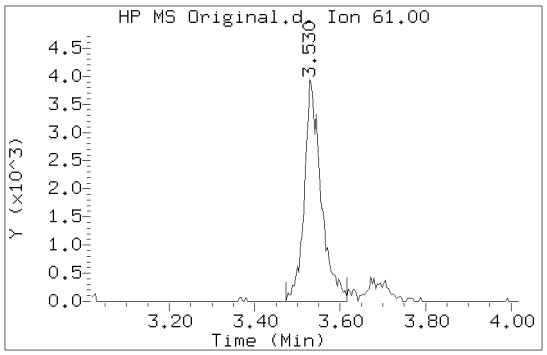
AFTER

MASS
96
AREA
7938
HEIGHT
3854
30-Mar-2023
12:41
linh
pham



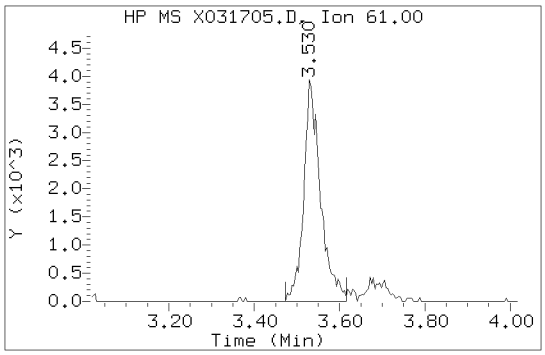
BEFORE

MASS
61
AREA
10862
HEIGHT
3938
30-Mar-2023
12:33
linh
pham



AFTER

MASS
61
AREA
10862
HEIGHT
3938
30-Mar-2023
12:41
linh
pham



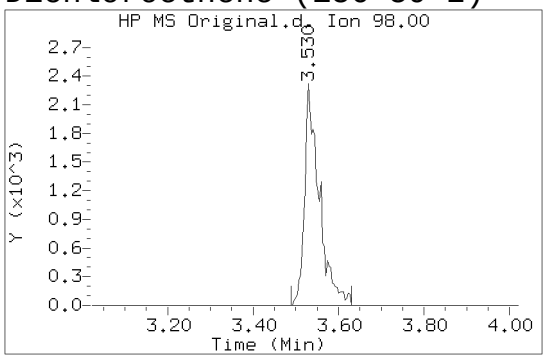
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

cis-1,2-Dichloroethene (156-59-2)

Reason Code:

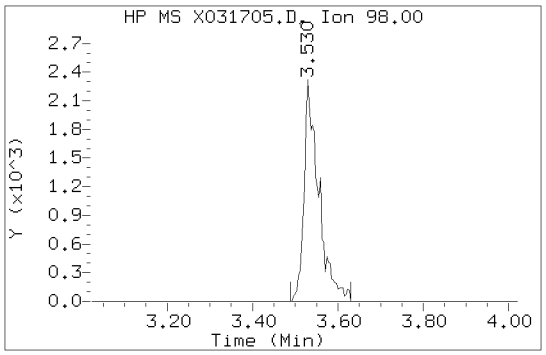
BEFORE

MASS
98
AREA
5559
HEIGHT
2321
30-Mar-2023
12:33
linh
pham



AFTER

MASS
98
AREA
5559
HEIGHT
2321
30-Mar-2023
12:41
linh
pham

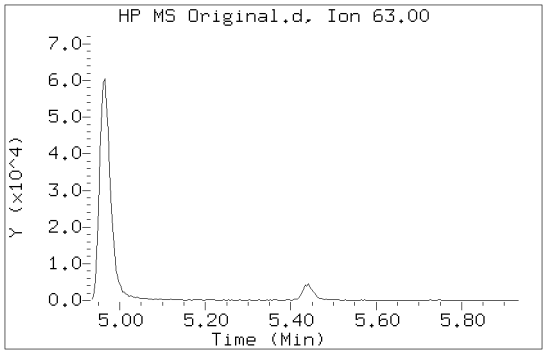


1,2-Dichloropropane (78-87-5)

Reason Code:

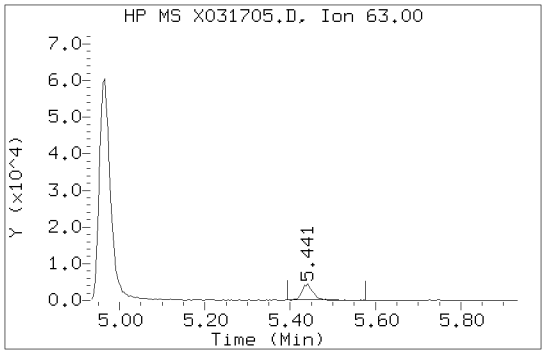
BEFORE

MASS
63
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



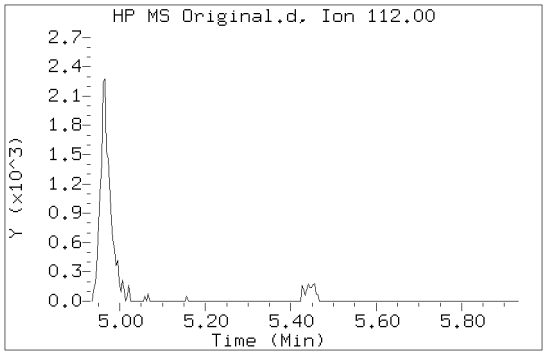
AFTER

MASS
63
AREA
7975
HEIGHT
4520
30-Mar-2023
12:41
linh
pham



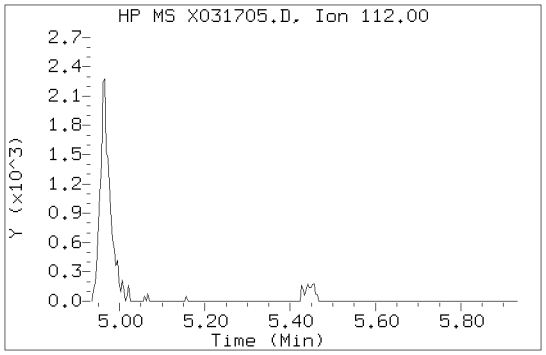
BEFORE

MASS
112
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
112
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

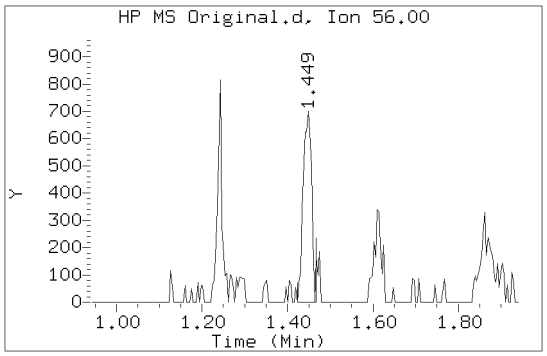


Acrolein (107-02-8)

Reason Code:

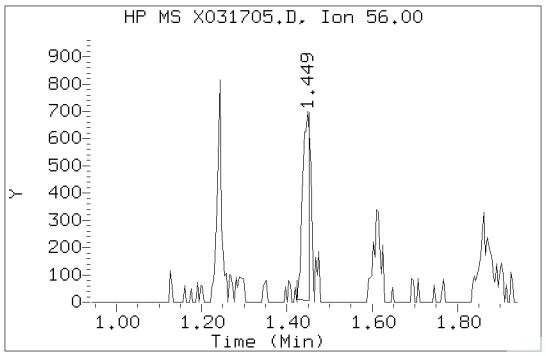
BEFORE

MASS
56
AREA
1011
HEIGHT
699
30-Mar-2023
12:33
linh
pham



AFTER

MASS
56
AREA
794
HEIGHT
691
30-Mar-2023
12:41
linh
pham



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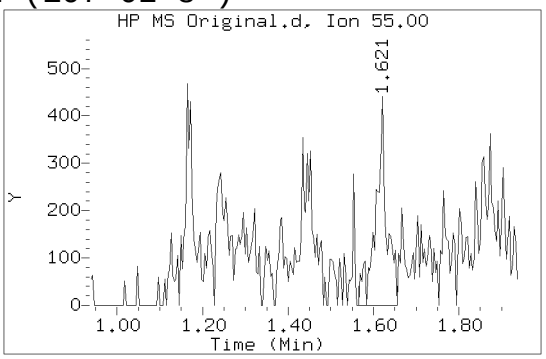
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Acrolein (107-02-8)

Reason Code:

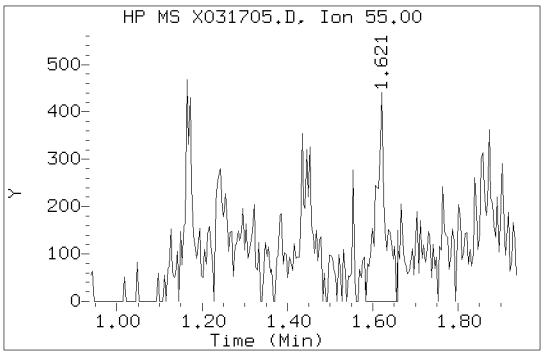
BEFORE

MASS
55
AREA
771
HEIGHT
441
30-Mar-2023
12:33
linh
pham



AFTER

MASS
55
AREA
728
HEIGHT
441
30-Mar-2023
12:41
linh
pham

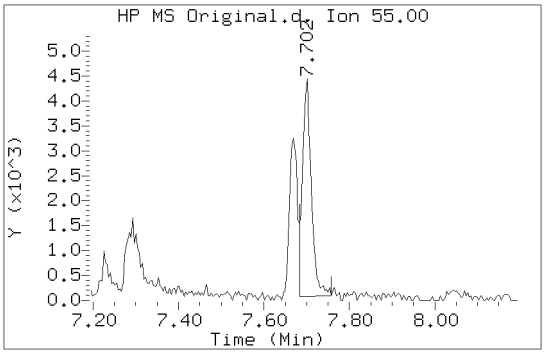


1-Chlorohexane (544-10-5)

Reason Code:

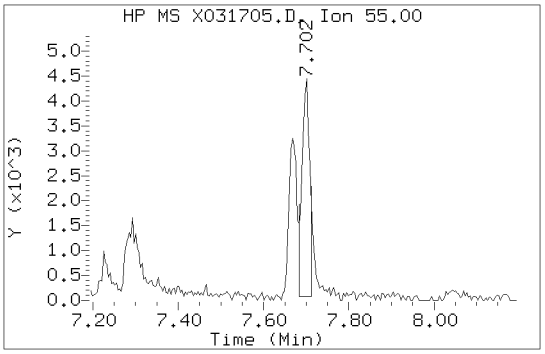
BEFORE

MASS
55
AREA
6571
HEIGHT
4369
30-Mar-2023
12:33
linh
pham



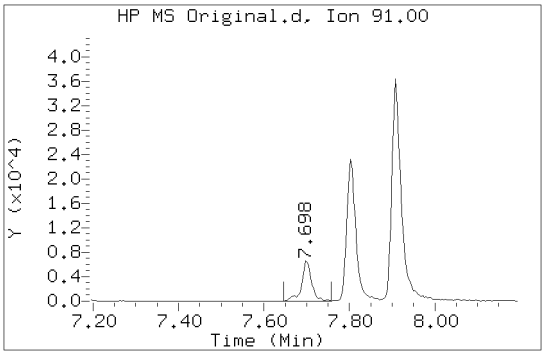
AFTER

MASS
55
AREA
5763
HEIGHT
4369
30-Mar-2023
12:41
linh
pham



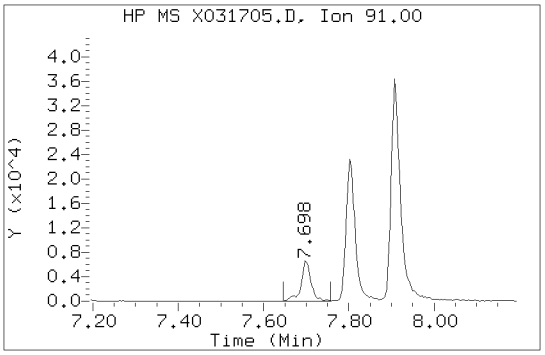
BEFORE

MASS
91
AREA
10956
HEIGHT
6612
30-Mar-2023
12:33
linh
pham



AFTER

MASS
91
AREA
10956
HEIGHT
6612
30-Mar-2023
12:41
linh
pham

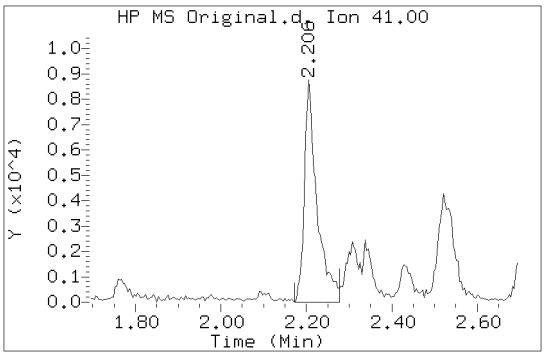


Allyl Chloride (107-05-1)

Reason Code:

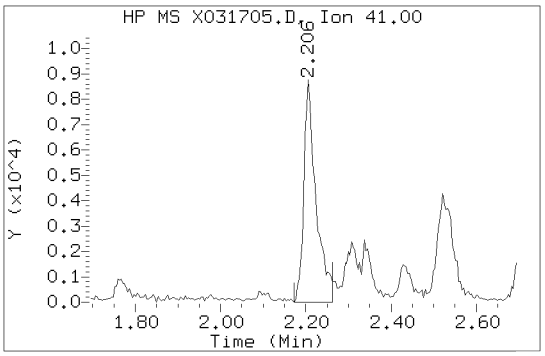
BEFORE

MASS
41
AREA
18122
HEIGHT
8761
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
17508
HEIGHT
8761
30-Mar-2023
12:41
linh
pham



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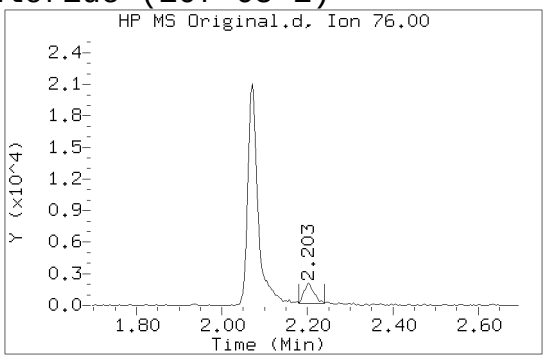
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Allyl Chloride (107-05-1)

BEFORE

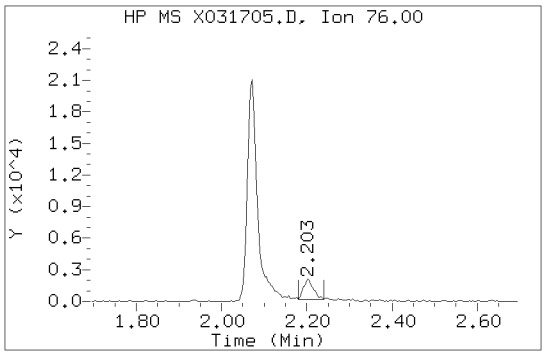
MASS
76
AREA
3083
HEIGHT
1935
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

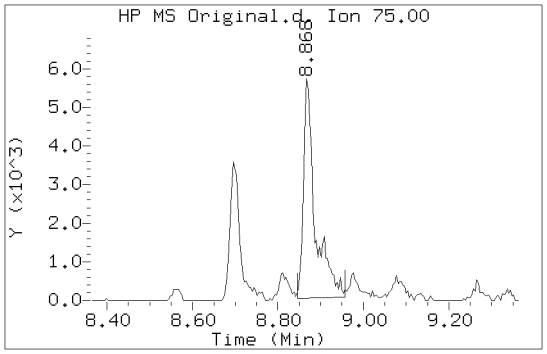
MASS
76
AREA
3083
HEIGHT
1935
30-Mar-2023
12:41
linh
pham



1,2,3-Trichloropropane (96-18-4)

BEFORE

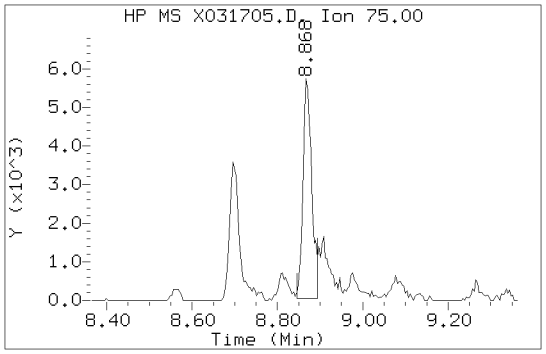
MASS
75
AREA
11042
HEIGHT
5692
30-Mar-2023
12:33
linh
pham



Reason Code:

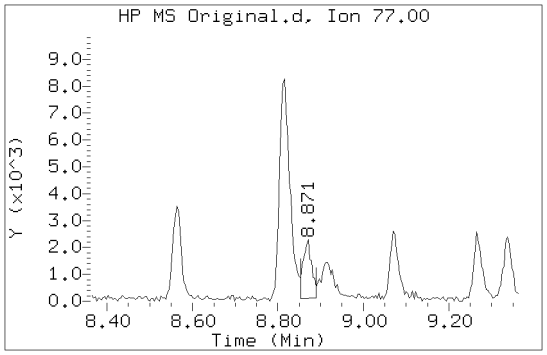
AFTER

MASS
75
AREA
8328
HEIGHT
5692
30-Mar-2023
12:41
linh
pham



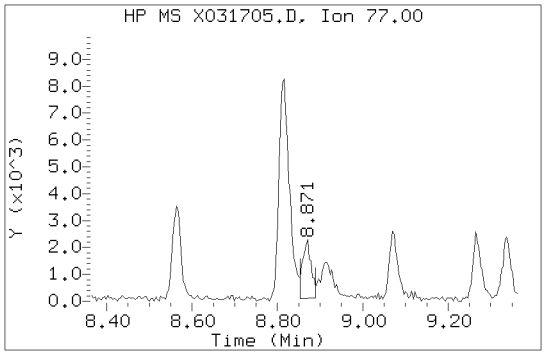
BEFORE

MASS
77
AREA
3185
HEIGHT
2179
30-Mar-2023
12:33
linh
pham



AFTER

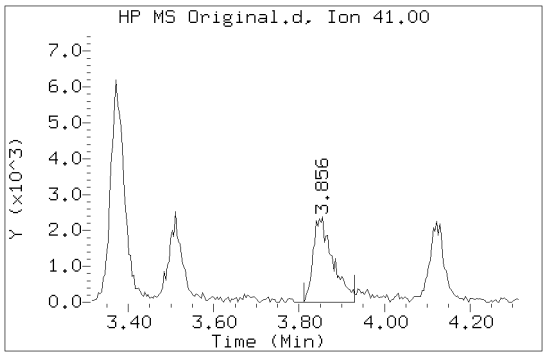
MASS
77
AREA
3185
HEIGHT
2179
30-Mar-2023
12:41
linh
pham



Methacrylonitrile (126-98-7)

BEFORE

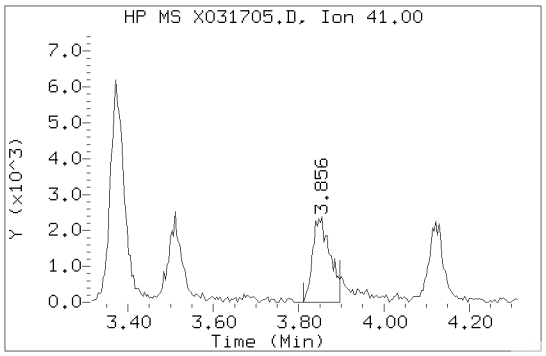
MASS
41
AREA
7606
HEIGHT
2390
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

MASS
41
AREA
6754
HEIGHT
2390
30-Mar-2023
12:41
linh
pham



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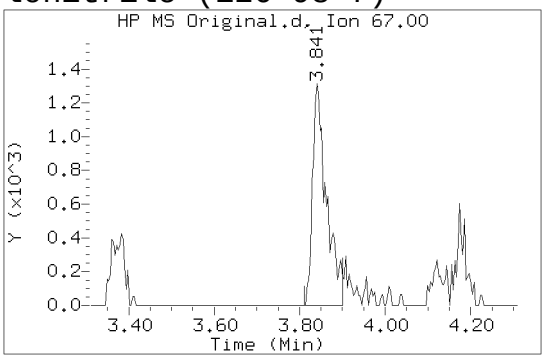
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Methacrylonitrile (126-98-7)

Reason Code:

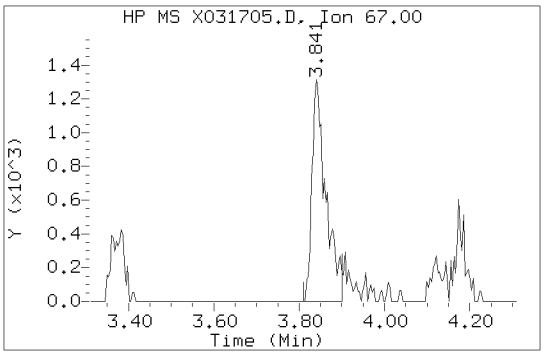
BEFORE

MASS
67
AREA
2973
HEIGHT
1314
30-Mar-2023
12:33
linh
pham



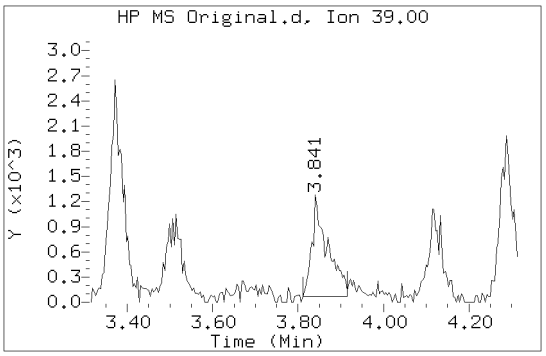
AFTER

MASS
67
AREA
2973
HEIGHT
1314
30-Mar-2023
12:41
linh
pham



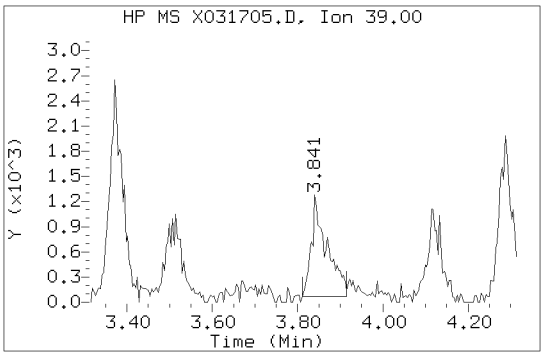
BEFORE

MASS
39
AREA
3073
HEIGHT
1215
30-Mar-2023
12:33
linh
pham



AFTER

MASS
39
AREA
3073
HEIGHT
1215
30-Mar-2023
12:41
linh
pham

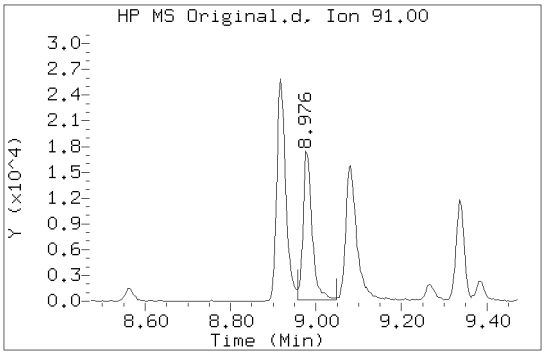


2-Chlorotoluene (95-49-8)

Reason Code:

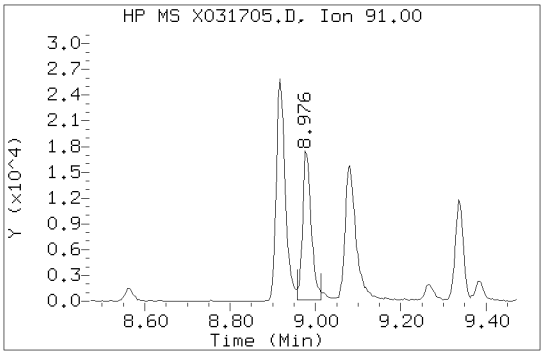
BEFORE

MASS
91
AREA
26022
HEIGHT
17363
30-Mar-2023
12:33
linh
pham



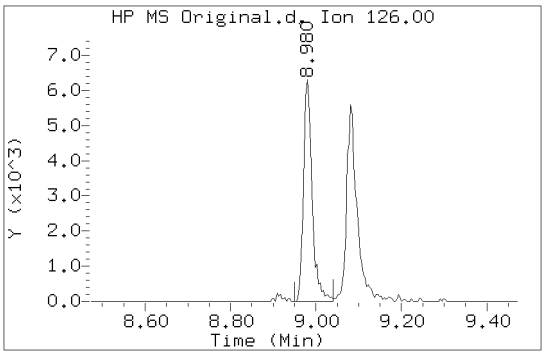
AFTER

MASS
91
AREA
25156
HEIGHT
17363
30-Mar-2023
12:41
linh
pham



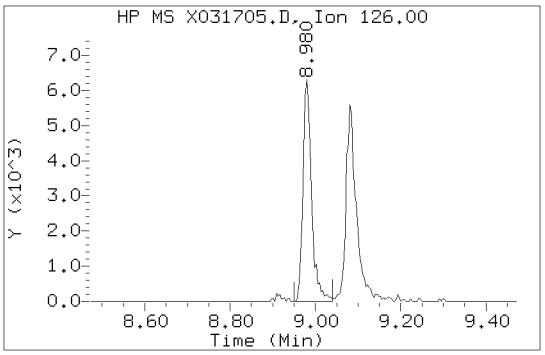
BEFORE

MASS
126
AREA
9054
HEIGHT
6306
30-Mar-2023
12:33
linh
pham



AFTER

MASS
126
AREA
9054
HEIGHT
6306
30-Mar-2023
12:41
linh
pham



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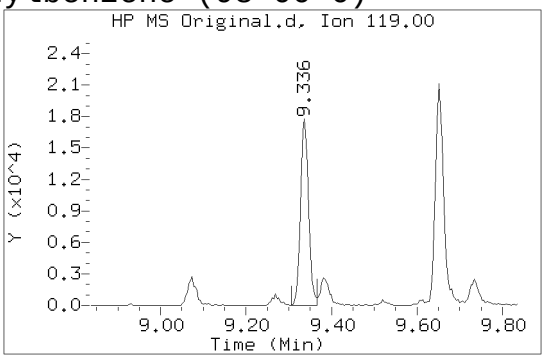
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

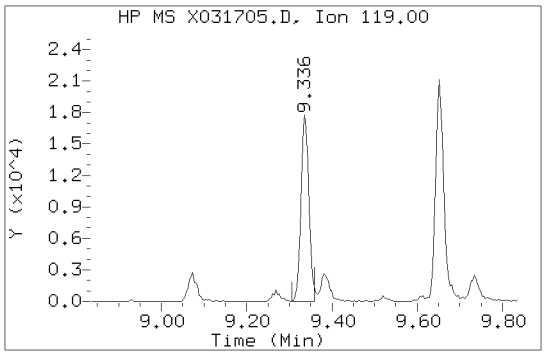
tert-Butylbenzene (98-06-6)

Reason Code:

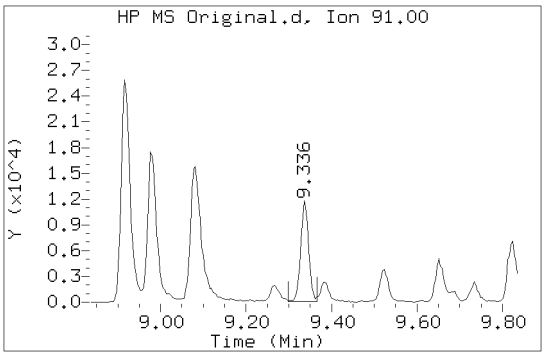
BEFORE
MASS
119
AREA
24014
HEIGHT
17752
30-Mar-2023
12:33
linh
pham



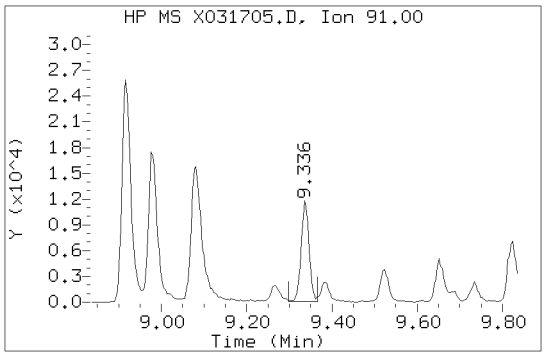
AFTER
MASS
119
AREA
23670
HEIGHT
17752
30-Mar-2023
12:41
linh
pham



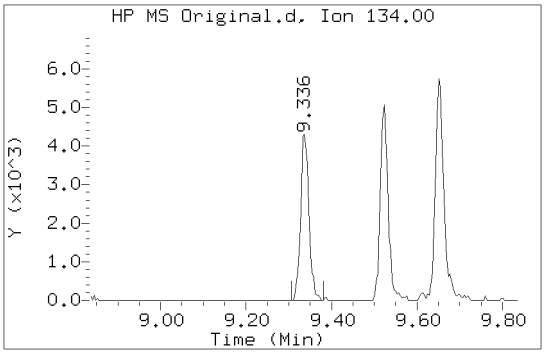
BEFORE
MASS
91
AREA
15633
HEIGHT
11777
30-Mar-2023
12:33
linh
pham



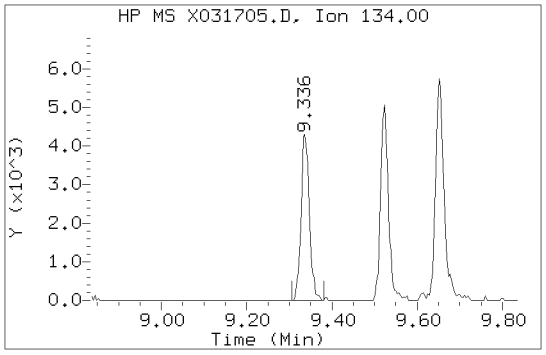
AFTER
MASS
91
AREA
15633
HEIGHT
11777
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
134
AREA
6015
HEIGHT
4311
30-Mar-2023
12:33
linh
pham



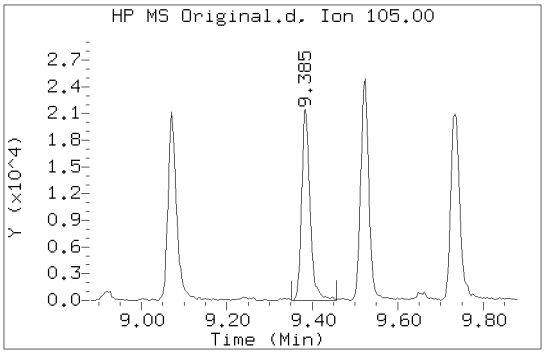
AFTER
MASS
134
AREA
6015
HEIGHT
4311
30-Mar-2023
12:41
linh
pham



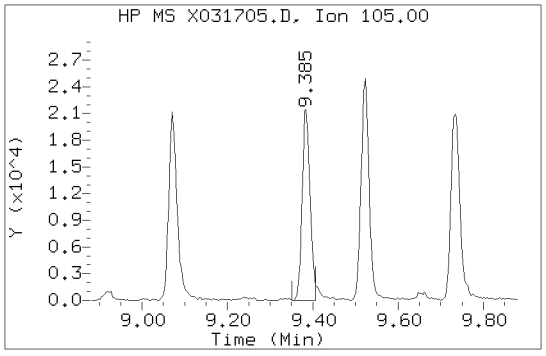
1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

BEFORE
MASS
105
AREA
30217
HEIGHT
21448
30-Mar-2023
12:33
linh
pham



AFTER
MASS
105
AREA
28719
HEIGHT
21448
30-Mar-2023
12:41
linh
pham



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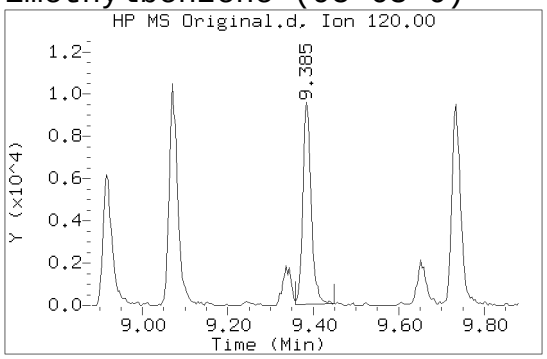
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

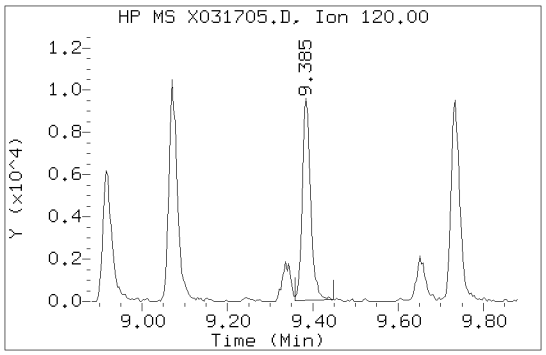
BEFORE

MASS
120
AREA
13357
HEIGHT
9568
30-Mar-2023
12:33
linh
pham



AFTER

MASS
120
AREA
13357
HEIGHT
9568
30-Mar-2023
12:41
linh
pham

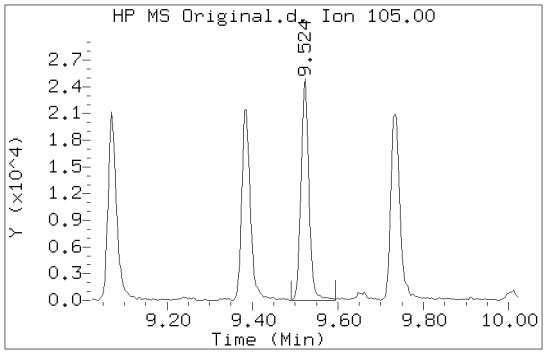


sec-Butylbenzene (135-98-8)

Reason Code:

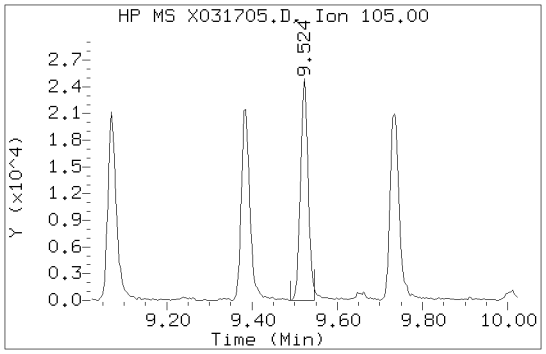
BEFORE

MASS
105
AREA
33044
HEIGHT
24912
30-Mar-2023
12:33
linh
pham



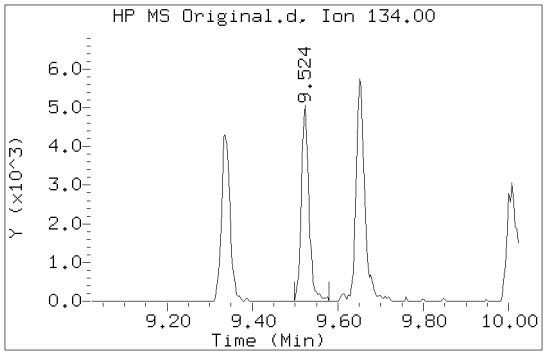
AFTER

MASS
105
AREA
32067
HEIGHT
24912
30-Mar-2023
12:41
linh
pham



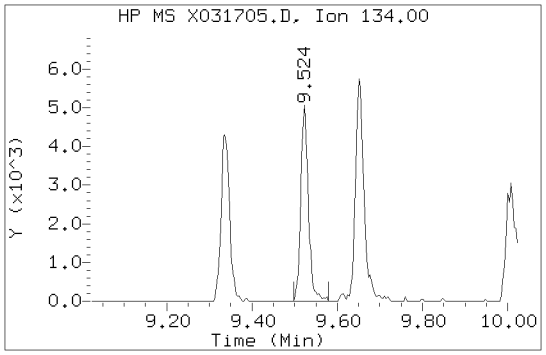
BEFORE

MASS
134
AREA
6514
HEIGHT
5072
30-Mar-2023
12:33
linh
pham



AFTER

MASS
134
AREA
6514
HEIGHT
5072
30-Mar-2023
12:41
linh
pham

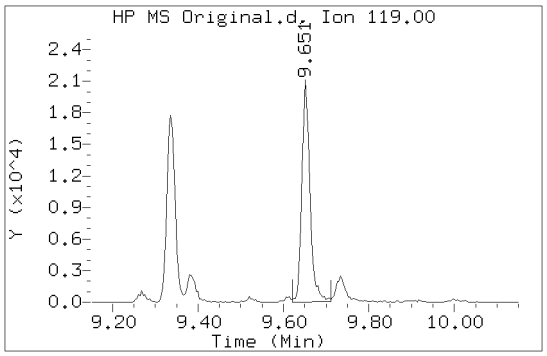


p-Isopropyltoluene (99-87-6)

Reason Code:

BEFORE

MASS
119
AREA
28649
HEIGHT
21087
30-Mar-2023
12:33
linh
pham



AFTER

MASS
119
AREA
27213
HEIGHT
21087
30-Mar-2023
12:41
linh
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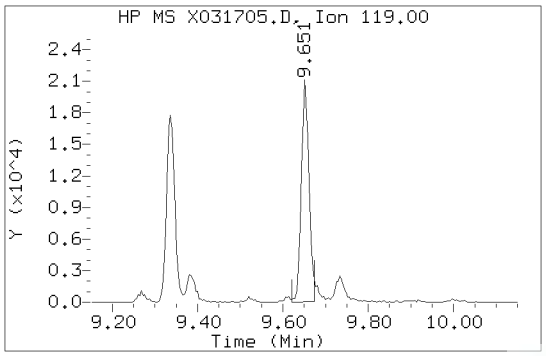

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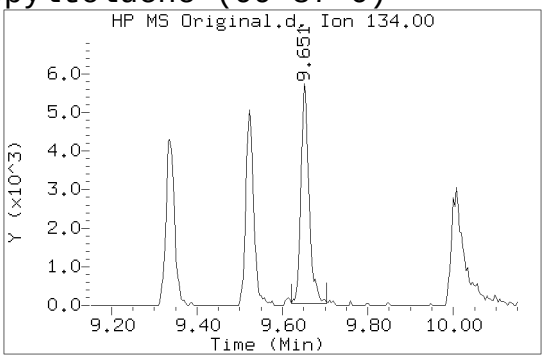
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

p-Isopropyltoluene (99-87-6)

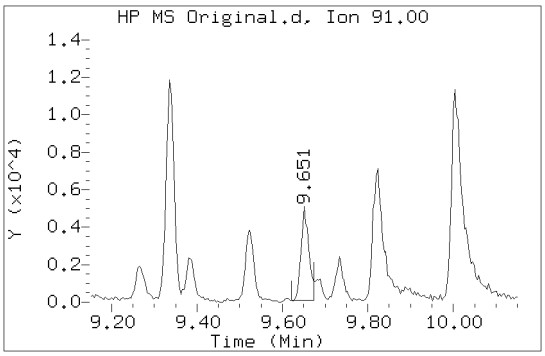
BEFORE

MASS
134
AREA
7684
HEIGHT
5691
30-Mar-2023
12:33
linh
pham



BEFORE

MASS
91
AREA
6592
HEIGHT
5018
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

MASS
134
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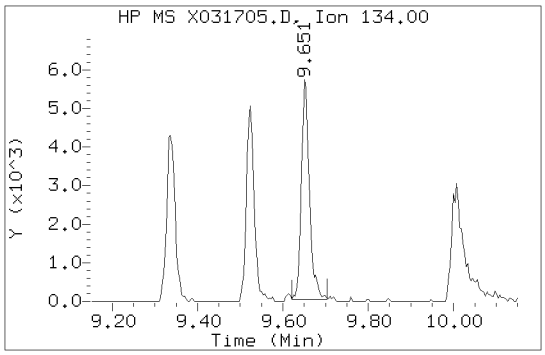
7684
HEIGHT
5691
30-Mar-2023
12:41
linh
pham



AFTER

MASS
91
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6592
HEIGHT
5018
30-Mar-2023
12:41
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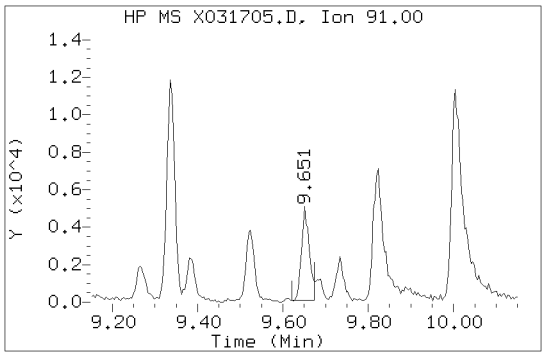
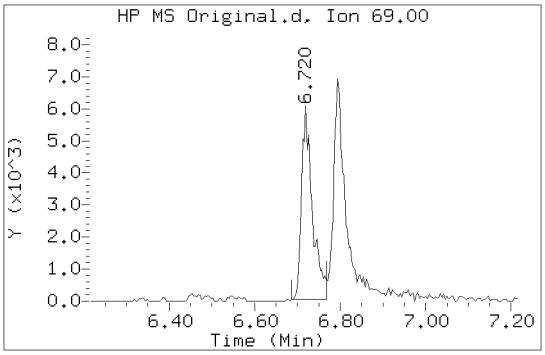
pham



Ethyl Methacrylate (97-63-2)

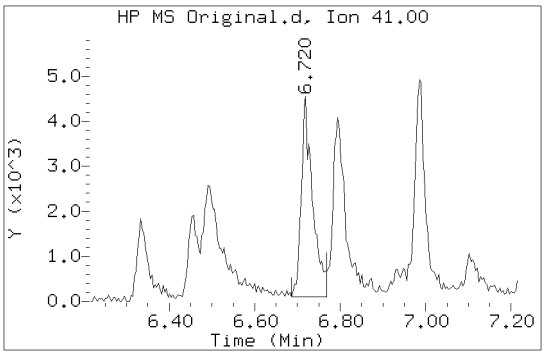
BEFORE

MASS
69
AREA
10752
HEIGHT
6028
30-Mar-2023
12:33
linh
pham



BEFORE

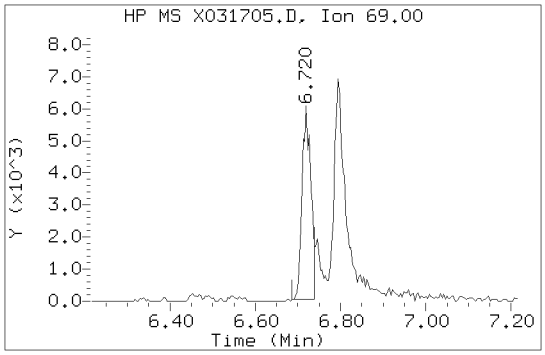
MASS
41
AREA
8401
HEIGHT
4455
30-Mar-2023
12:33
linh
pham



Reason Code:

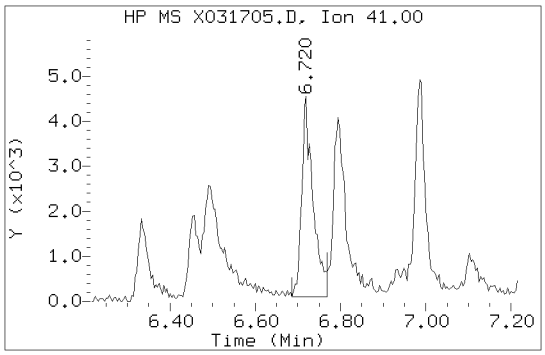
AFTER

MASS
69
AREA
8792
HEIGHT
6028
30-Mar-2023
12:41
linh
pham



AFTER

MASS
41
AREA
8401
HEIGHT
4455
30-Mar-2023
12:41
linh
pham



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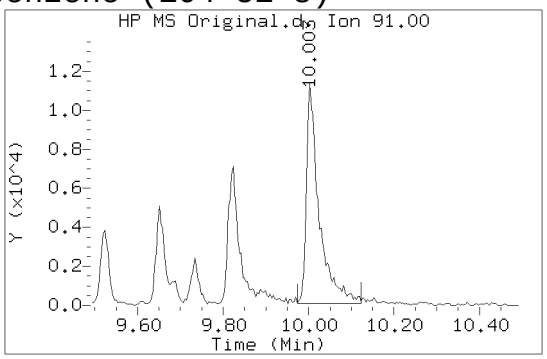
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

n-Butylbenzene (104-51-8)

Reason Code:

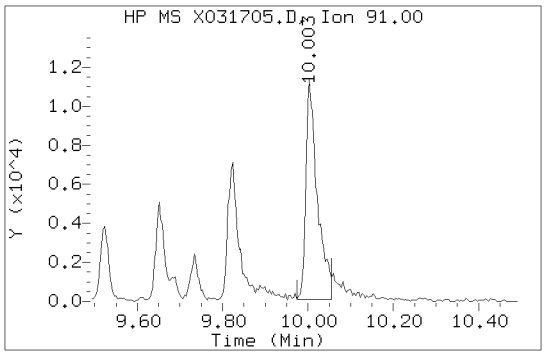
BEFORE

MASS
91
AREA
23510
HEIGHT
11276
30-Mar-2023
12:33
linh
pham



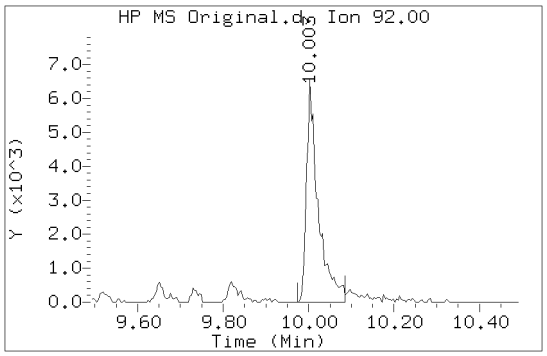
AFTER

MASS
91
AREA
21203
HEIGHT
11276
30-Mar-2023
12:41
linh
pham



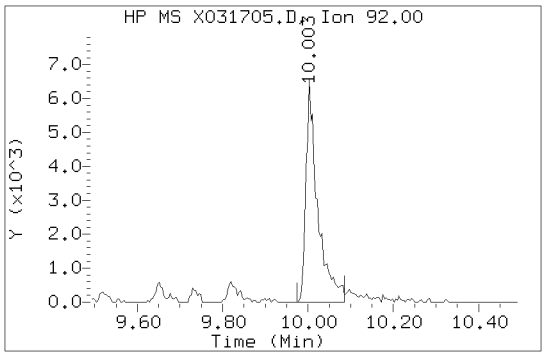
BEFORE

MASS
92
AREA
12533
HEIGHT
6547
30-Mar-2023
12:33
linh
pham



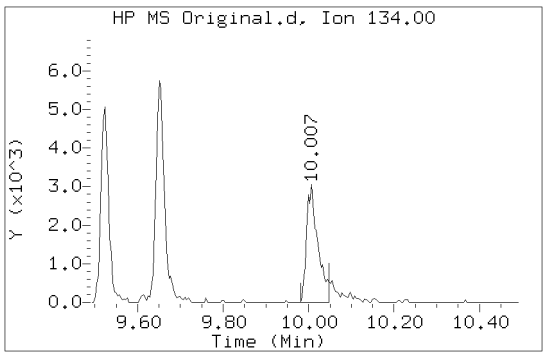
AFTER

MASS
92
AREA
12533
HEIGHT
6547
30-Mar-2023
12:41
linh
pham



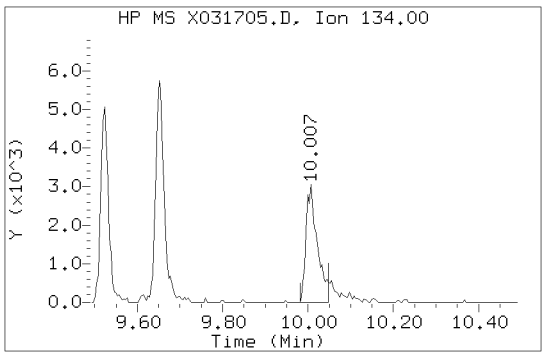
BEFORE

MASS
134
AREA
5667
HEIGHT
3050
30-Mar-2023
12:33
linh
pham



AFTER

MASS
134
AREA
5667
HEIGHT
3050
30-Mar-2023
12:41
linh
pham

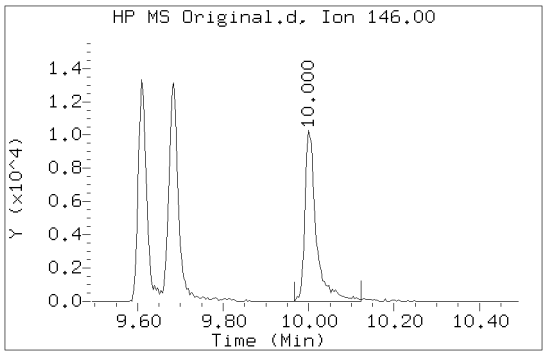


1,2-Dichlorobenzene (95-50-1)

Reason Code:

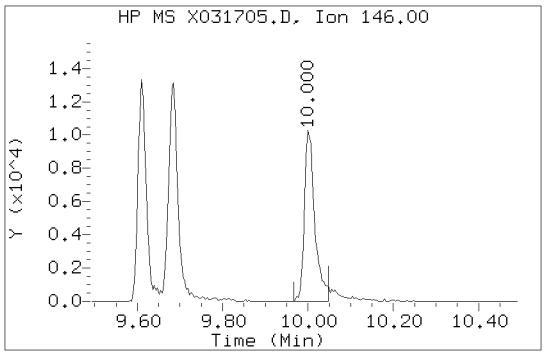
BEFORE

MASS
146
AREA
19256
HEIGHT
10274
30-Mar-2023
12:33
linh
pham



AFTER

MASS
146
AREA
17795
HEIGHT
10274
30-Mar-2023
12:41
linh
pham



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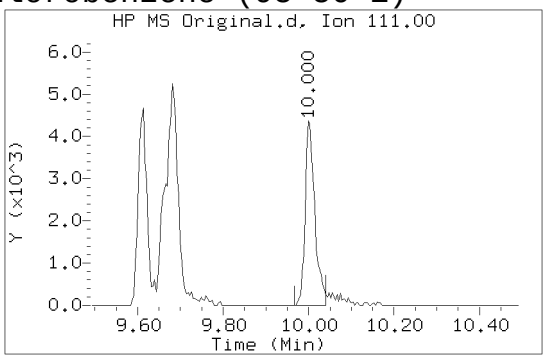
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

1,2-Dichlorobenzene (95-50-1)

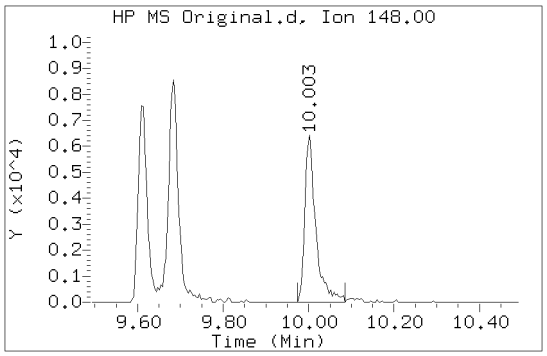
BEFORE

MASS
111
AREA
6944
HEIGHT
4376
30-Mar-2023
12:33
linh
pham



BEFORE

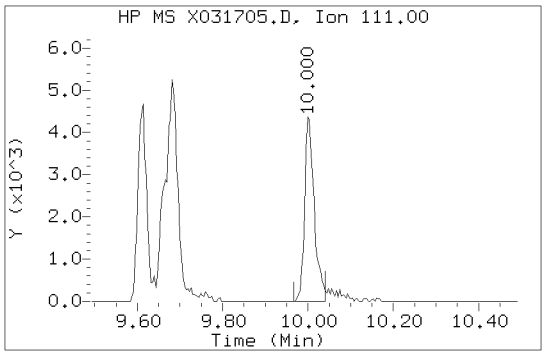
MASS
148
AREA
11682
HEIGHT
6424
30-Mar-2023
12:33
linh
pham



Reason Code:

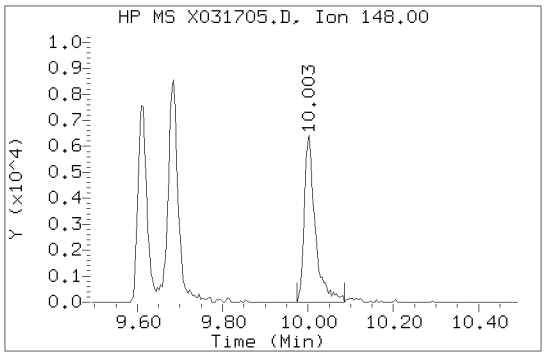
AFTER

MASS
111
AREA
6944
HEIGHT
4376
30-Mar-2023
12:41
linh
pham



AFTER

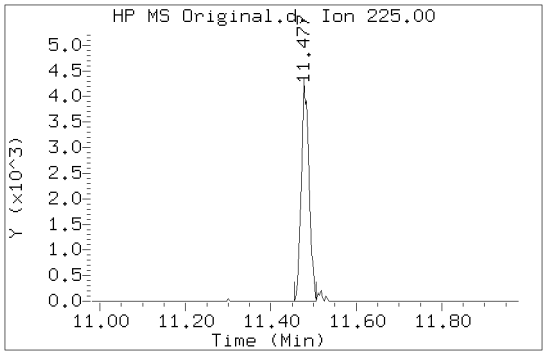
MASS
148
AREA
11682
HEIGHT
6424
30-Mar-2023
12:41
linh
pham



Hexachlorobutadiene (87-68-3)

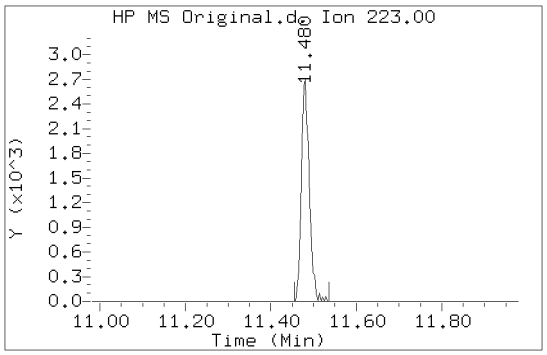
BEFORE

MASS
225
AREA
5604
HEIGHT
4343
30-Mar-2023
12:33
linh
pham



BEFORE

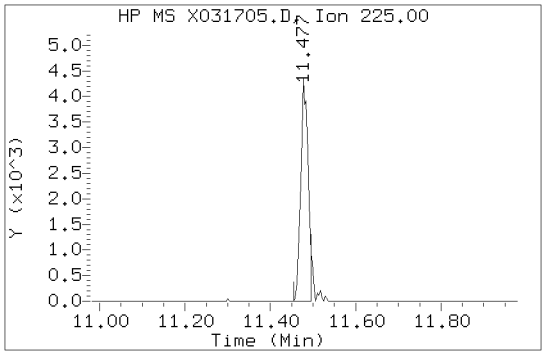
MASS
223
AREA
3589
HEIGHT
2696
30-Mar-2023
12:33
linh
pham



Reason Code:

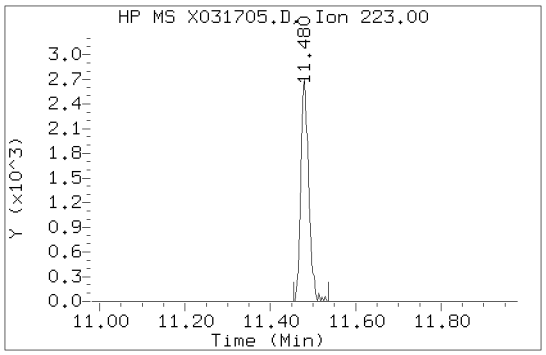
AFTER

MASS
225
AREA
5380
HEIGHT
4343
30-Mar-2023
12:41
linh
pham



AFTER

MASS
223
AREA
3589
HEIGHT
2696
30-Mar-2023
12:41
linh
pham



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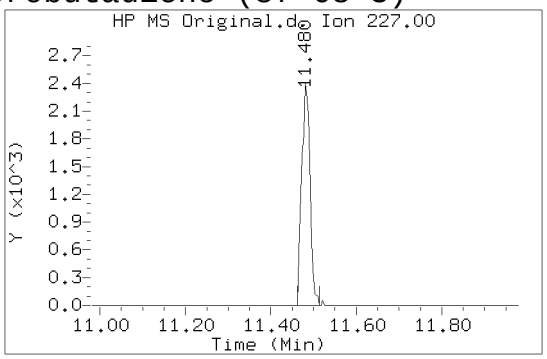
InstruID : voa6.i
LabSampID : VSTD002

Hexachlorobutadiene (87-68-3)

Reason Code:

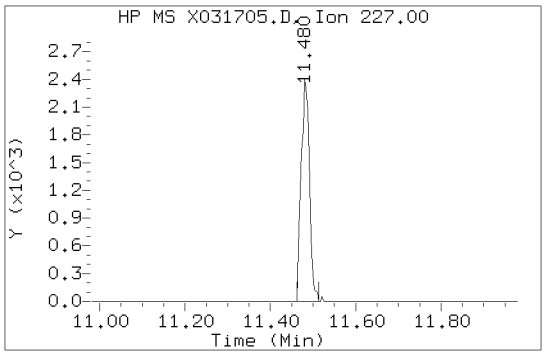
BEFORE

MASS
227
AREA
3365
HEIGHT
2397
30-Mar-2023
12:33
linh
pham



AFTER

MASS
227
AREA
3365
HEIGHT
2397
30-Mar-2023
12:41
linh
pham

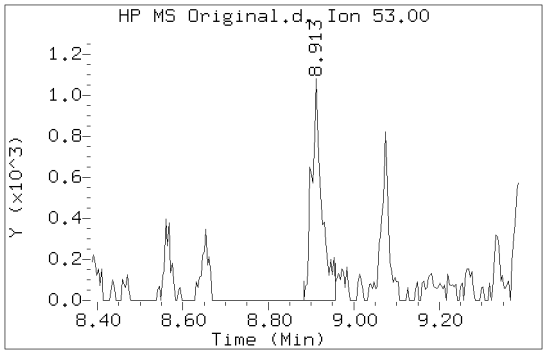


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

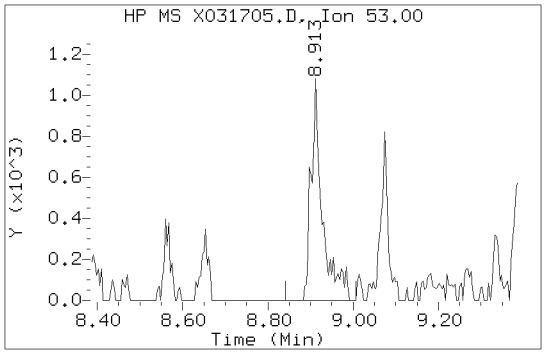
BEFORE

MASS
53
AREA
1786
HEIGHT
1081
30-Mar-2023
12:33
linh
pham



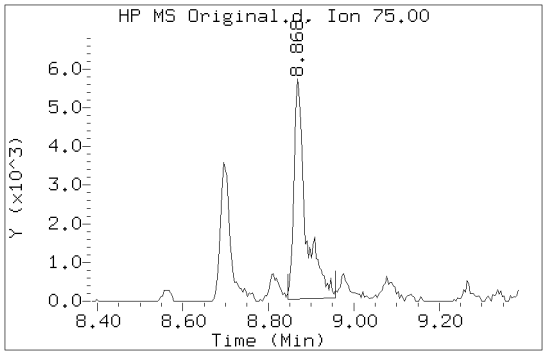
AFTER

MASS
53
AREA
1998
HEIGHT
1081
30-Mar-2023
12:41
linh
pham



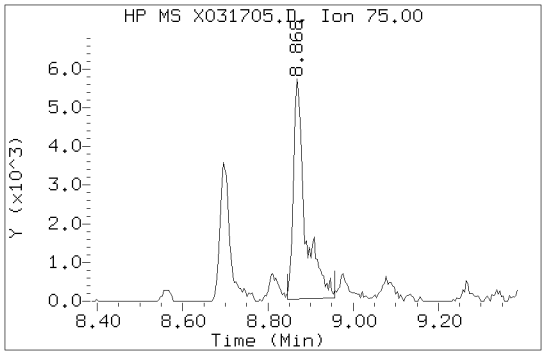
BEFORE

MASS
75
AREA
11042
HEIGHT
5692
30-Mar-2023
12:33
linh
pham



AFTER

MASS
75
AREA
11042
HEIGHT
5692
30-Mar-2023
12:41
linh
pham

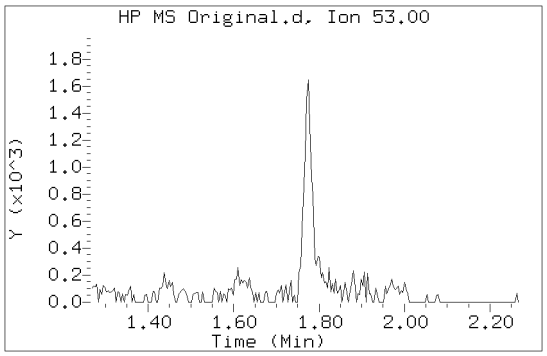


Chloroprene (126-99-8)

Reason Code:

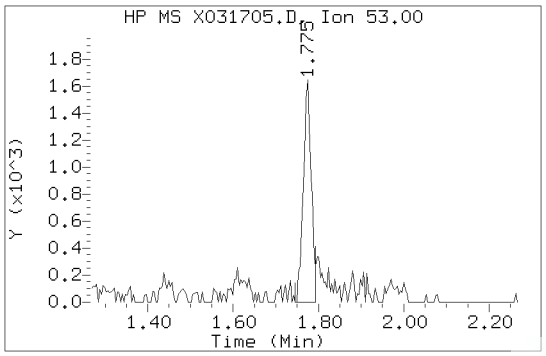
BEFORE

MASS
53
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
53
AREA
2193
HEIGHT
1645
30-Mar-2023
12:41
linh
pham



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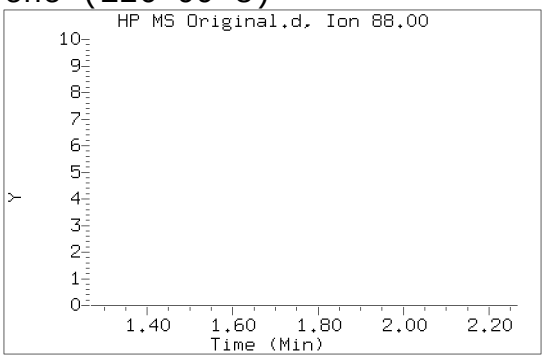
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Chloroprene (126-99-8)

Reason Code:

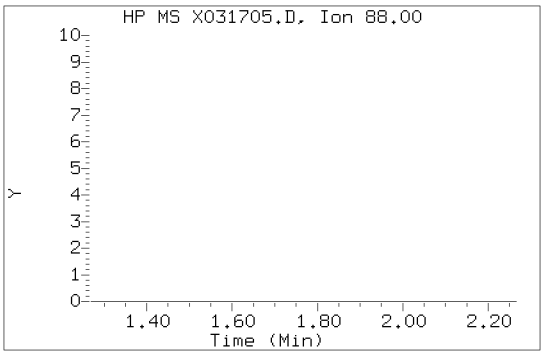
BEFORE

MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

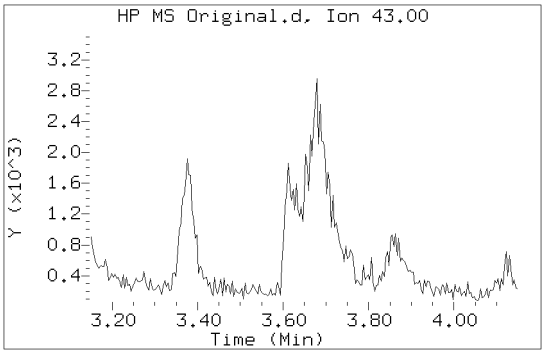


Ethyl Acetate (141-78-6)

Reason Code:

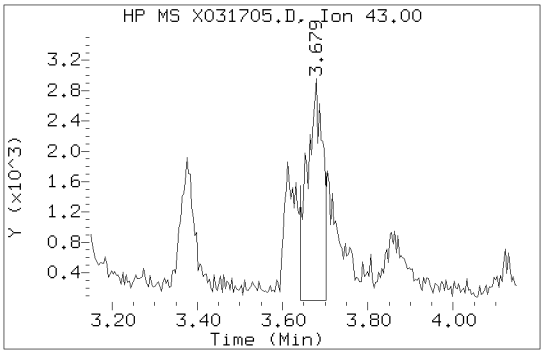
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



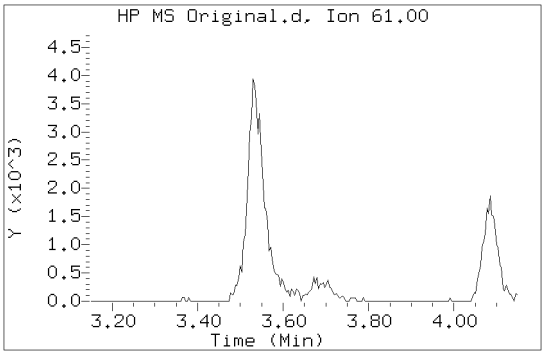
AFTER

MASS
43
AREA
7453
HEIGHT
2920
30-Mar-2023
12:41
linh
pham



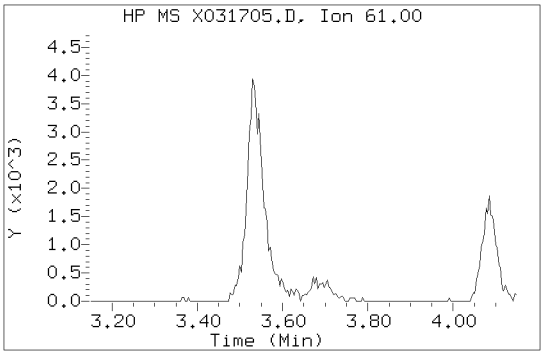
BEFORE

MASS
61
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



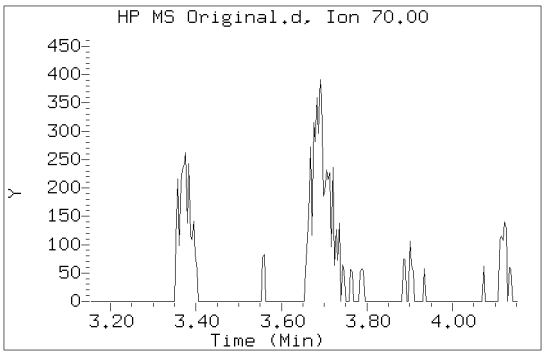
AFTER

MASS
61
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



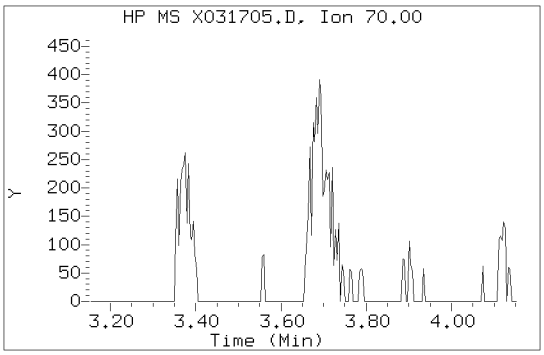
BEFORE

MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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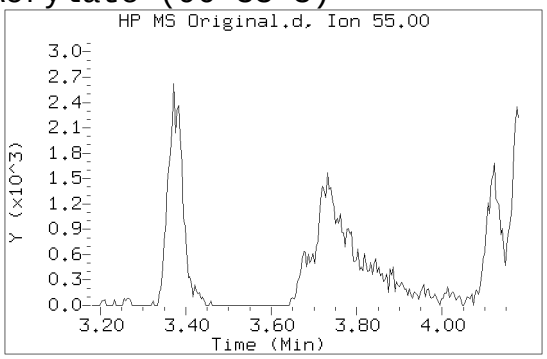
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Methyl Acrylate (96-33-3)

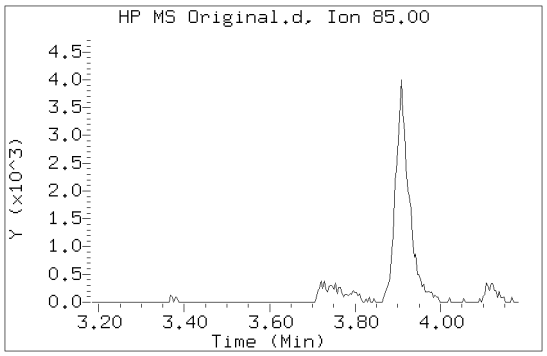
BEFORE

MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



BEFORE

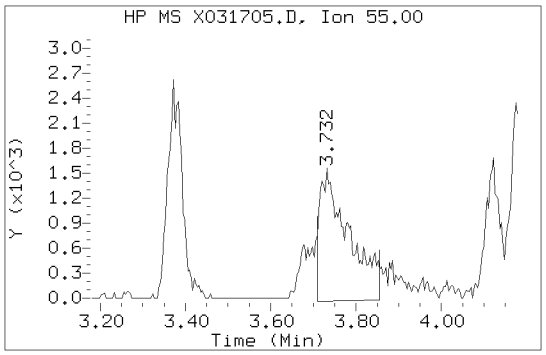
MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

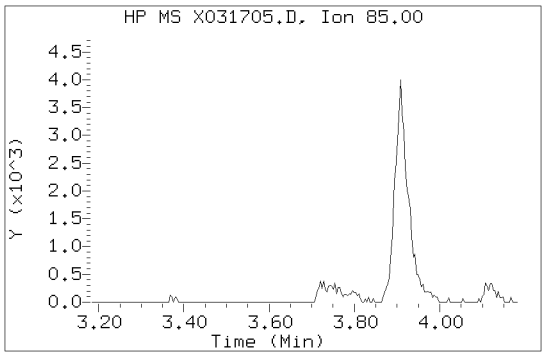
AFTER

MASS
55
AREA
7555
HEIGHT
1599
30-Mar-2023
12:41
linh
pham



AFTER

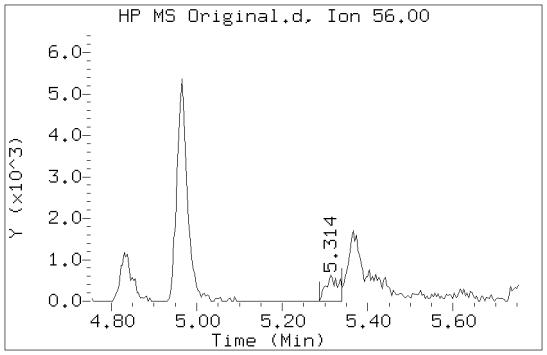
MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



n-Butanol (71-36-3)

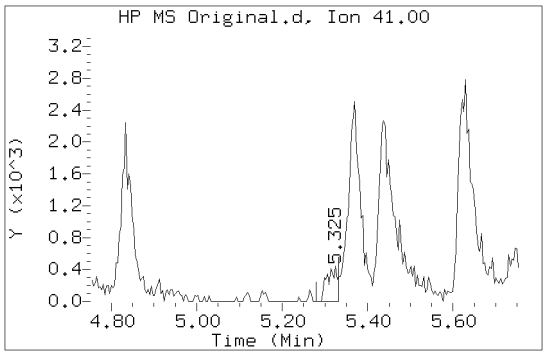
BEFORE

MASS
56
AREA
1263
HEIGHT
640
30-Mar-2023
12:33
linh
pham



BEFORE

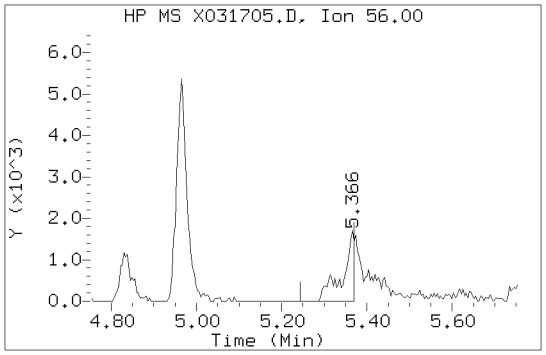
MASS
41
AREA
742
HEIGHT
439
30-Mar-2023
12:33
linh
pham



Reason Code:

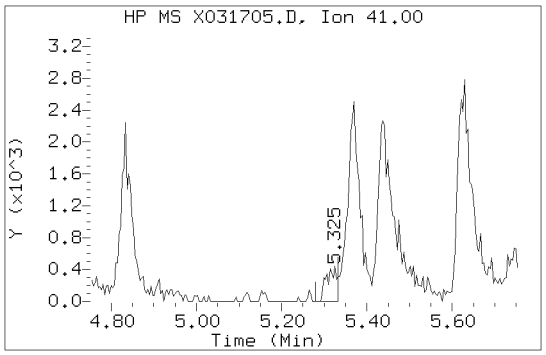
AFTER

MASS
56
AREA
3165
HEIGHT
1712
30-Mar-2023
12:41
linh
pham



AFTER

MASS
41
AREA
742
HEIGHT
439
30-Mar-2023
12:41
linh
pham



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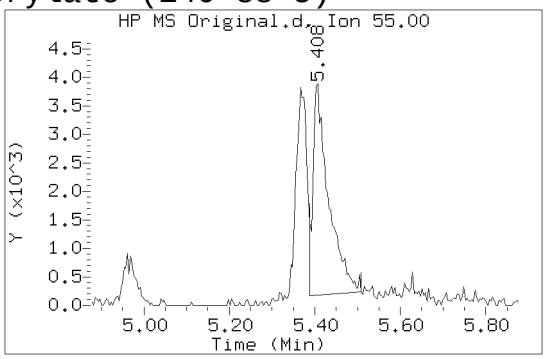
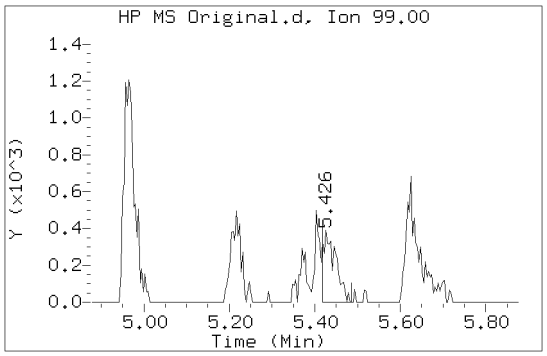
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Ethyl Acrylate (140-88-5)

BEFORE
MASS
55
AREA
9501
HEIGHT
3708
30-Mar-2023
12:33
linh
pham

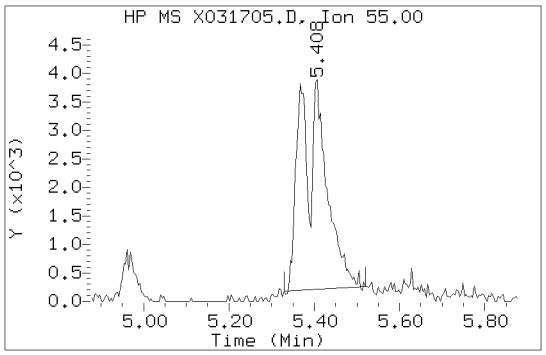


BEFORE
MASS
99
AREA
787
HEIGHT
391
30-Mar-2023
12:33
linh
pham

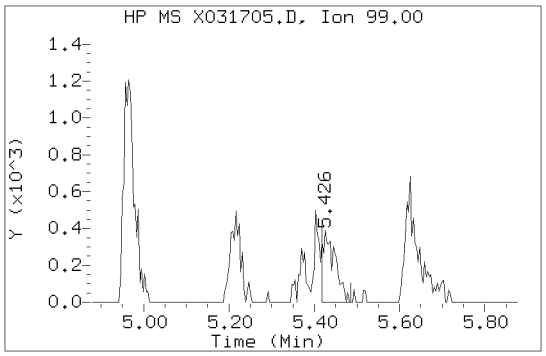


Reason Code:

AFTER
MASS
55
AREA
15497
HEIGHT
3674
30-Mar-2023
12:41
linh
pham

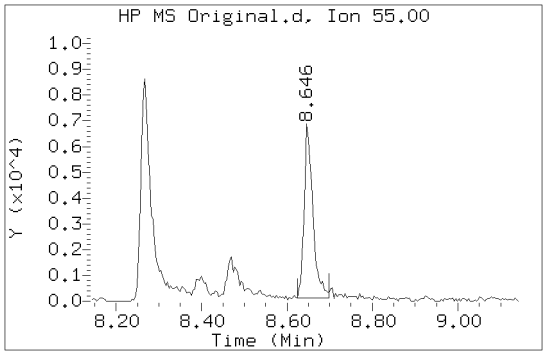


AFTER
MASS
99
AREA
787
HEIGHT
391
30-Mar-2023
12:41
linh
pham

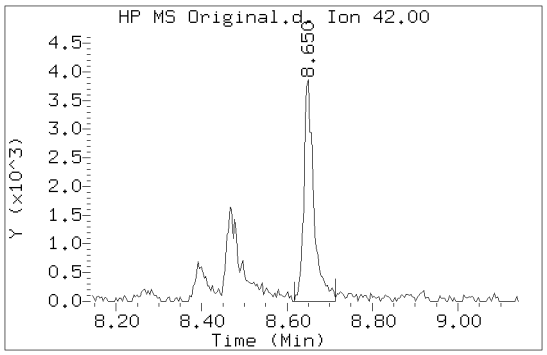


Cyclohexanone (108-94-1)

BEFORE
MASS
55
AREA
9770
HEIGHT
6746
30-Mar-2023
12:33
linh
pham

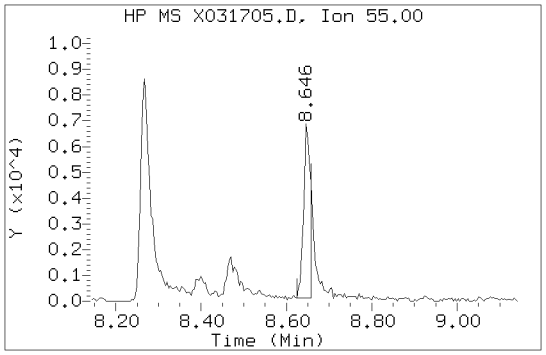


BEFORE
MASS
42
AREA
6426
HEIGHT
3864
30-Mar-2023
12:33
linh
pham

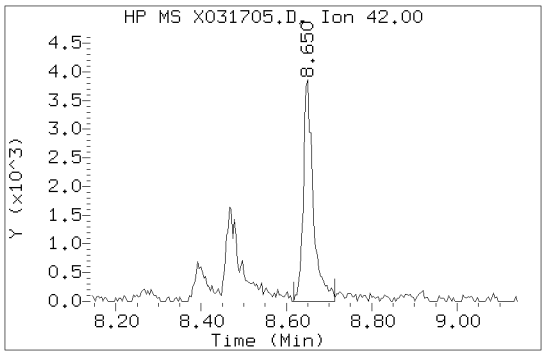


Reason Code:

AFTER
MASS
55
AREA
7426
HEIGHT
6746
30-Mar-2023
12:41
linh
pham



AFTER
MASS
42
AREA
6426
HEIGHT
3864
30-Mar-2023
12:41
linh
pham



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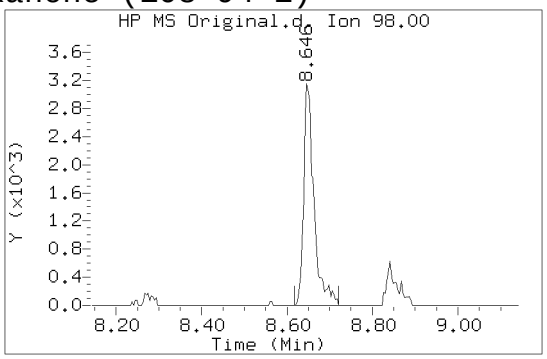
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Cyclohexanone (108-94-1)

BEFORE

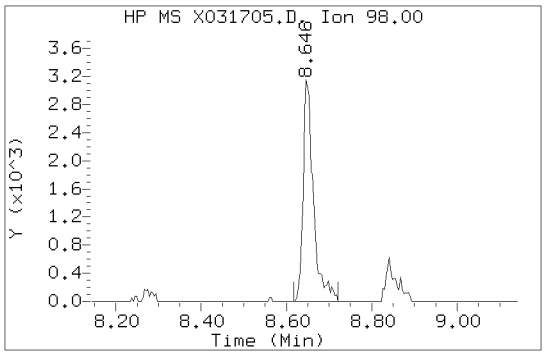
MASS
98
AREA
5390
HEIGHT
3154
30-Mar-2023
12:33
linh
pham



AFTER

MASS
98
AREA
5390
HEIGHT
3154
30-Mar-2023
12:41
linh
pham

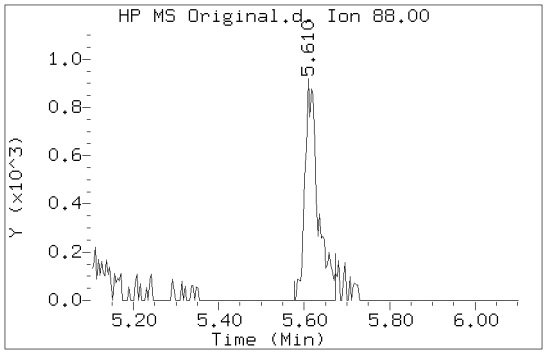
Reason Code:



1,4-Dioxane ()

BEFORE

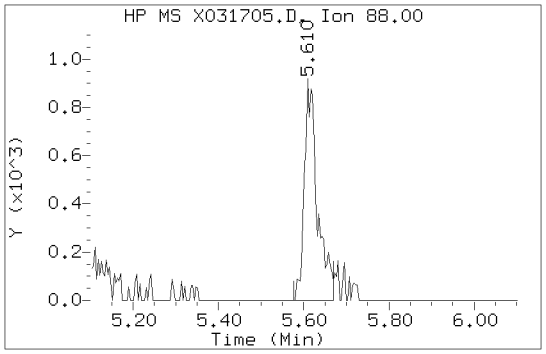
MASS
88
AREA
1992
HEIGHT
919
30-Mar-2023
12:33
linh
pham



AFTER

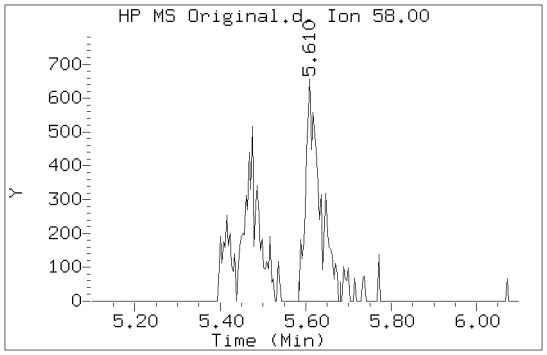
MASS
88
AREA
1966
HEIGHT
919
30-Mar-2023
12:41
linh
pham

Reason Code:



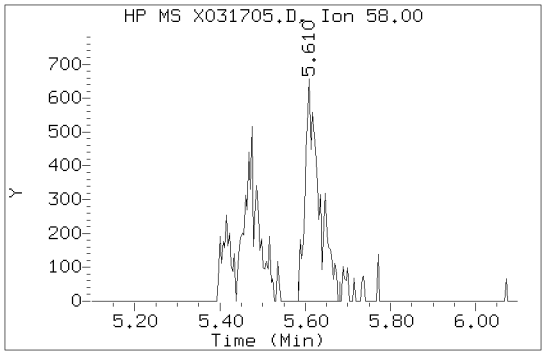
BEFORE

MASS
58
AREA
1530
HEIGHT
657
30-Mar-2023
12:33
linh
pham



AFTER

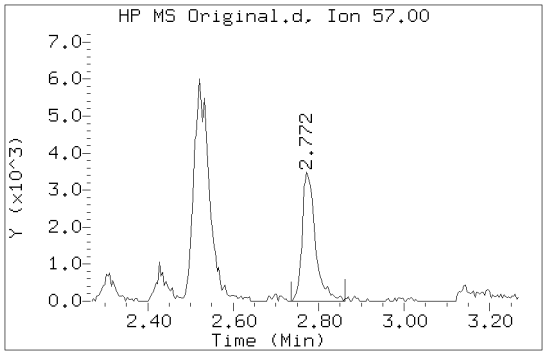
MASS
58
AREA
1530
HEIGHT
657
30-Mar-2023
12:41
linh
pham



n-Hexane (110-54-3)

BEFORE

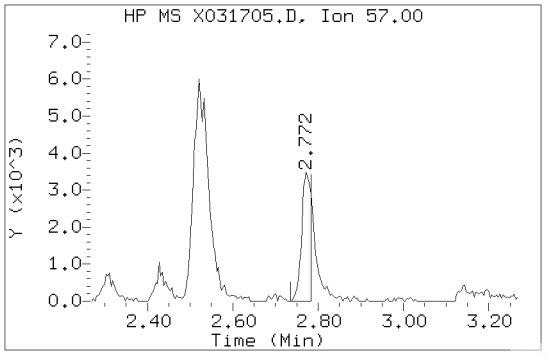
MASS
57
AREA
7617
HEIGHT
3483
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
5204
HEIGHT
3483
30-Mar-2023
12:41
linh
pham

Reason Code:



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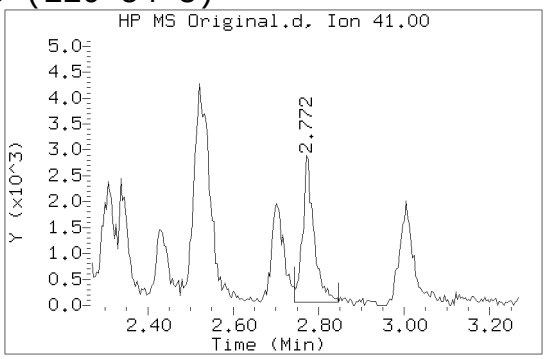
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

n-Hexane (110-54-3)

Reason Code:

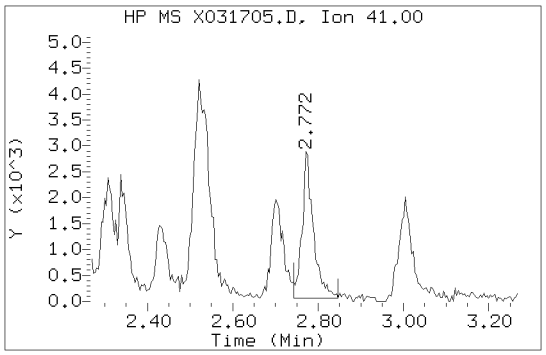
BEFORE

MASS
41
AREA
5361
HEIGHT
2834
30-Mar-2023
12:33
linh
pham



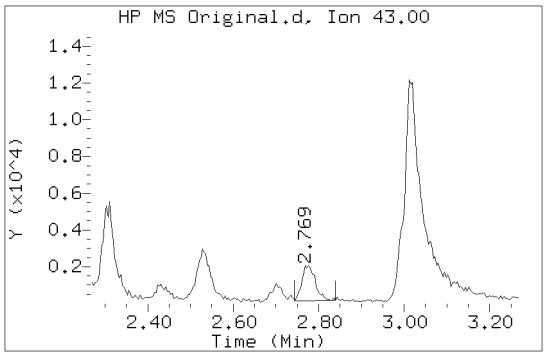
AFTER

MASS
41
AREA
5361
HEIGHT
2834
30-Mar-2023
12:41
linh
pham



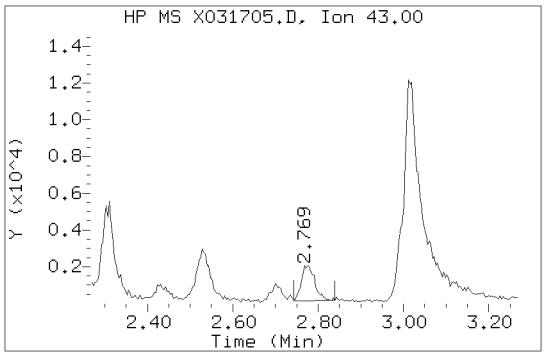
BEFORE

MASS
43
AREA
4306
HEIGHT
1911
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
AREA
4306
HEIGHT
1911
30-Mar-2023
12:41
linh
pham

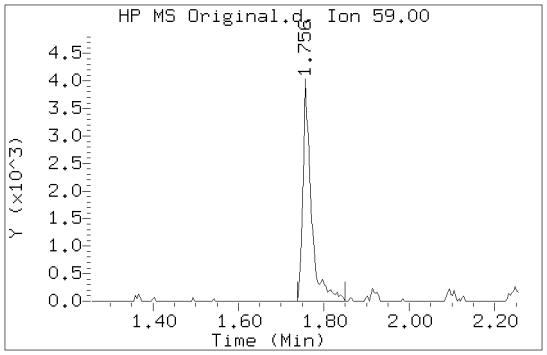


Diethyl ether (60-29-7)

Reason Code:

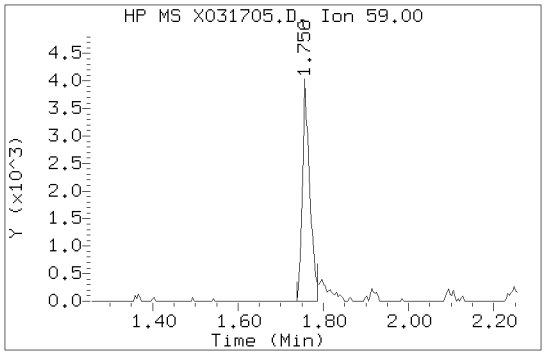
BEFORE

MASS
59
AREA
5680
HEIGHT
4036
30-Mar-2023
12:33
linh
pham



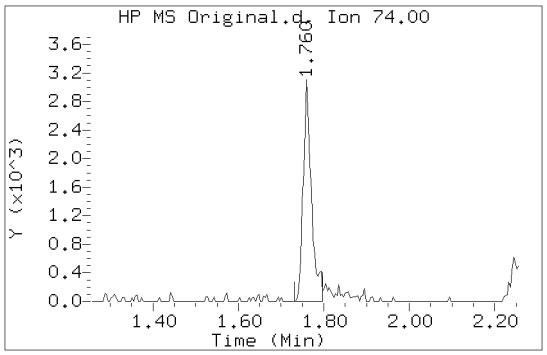
AFTER

MASS
59
AREA
4986
HEIGHT
4036
30-Mar-2023
12:41
linh
pham



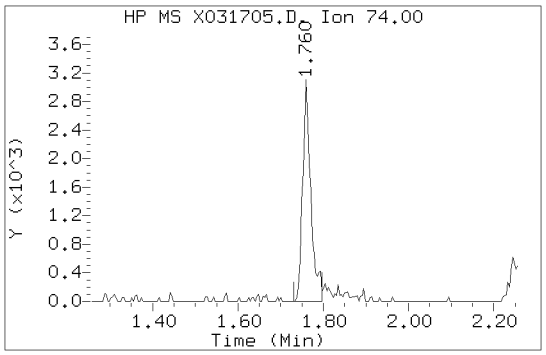
BEFORE

MASS
74
AREA
4223
HEIGHT
3105
30-Mar-2023
12:33
linh
pham



AFTER

MASS
74
AREA
4223
HEIGHT
3105
30-Mar-2023
12:41
linh
pham



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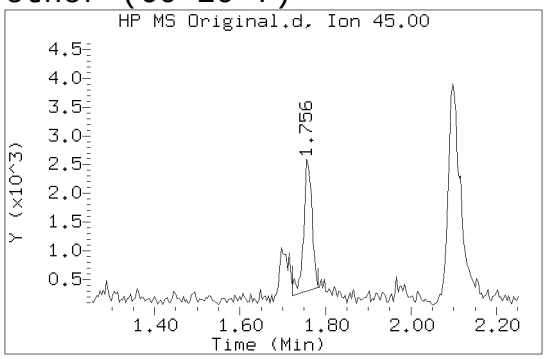
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Diethyl ether (60-29-7)

BEFORE

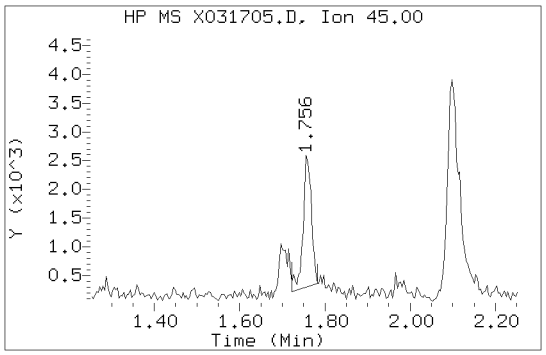
MASS
45
AREA
3205
HEIGHT
2290
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

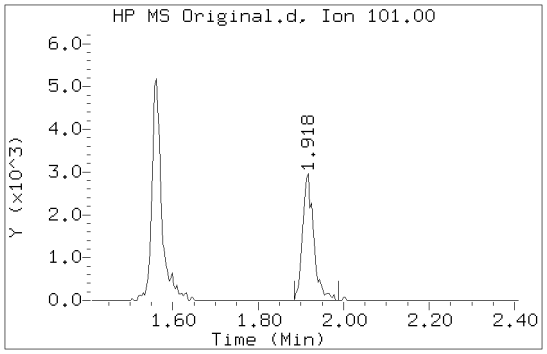
MASS
45
AREA
3205
HEIGHT
2290
30-Mar-2023
12:41
linh
pham



Freon TF (76-13-1)

BEFORE

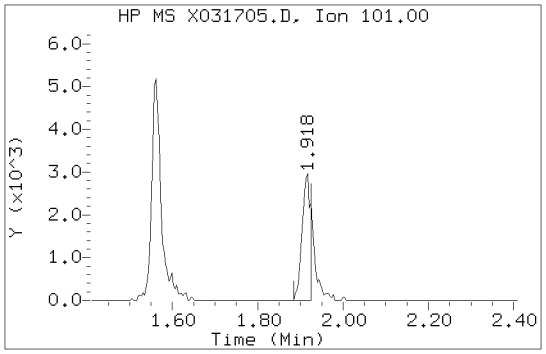
MASS
101
AREA
5432
HEIGHT
2973
30-Mar-2023
12:33
linh
pham



Reason Code:

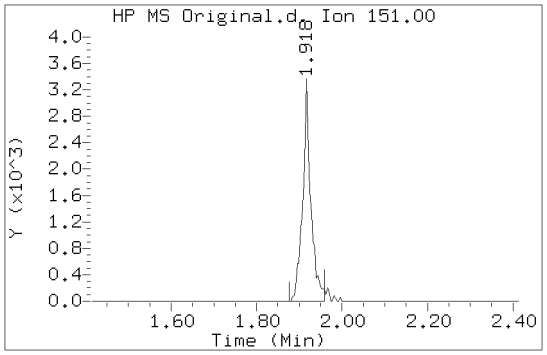
AFTER

MASS
101
AREA
4071
HEIGHT
2973
30-Mar-2023
12:41
linh
pham



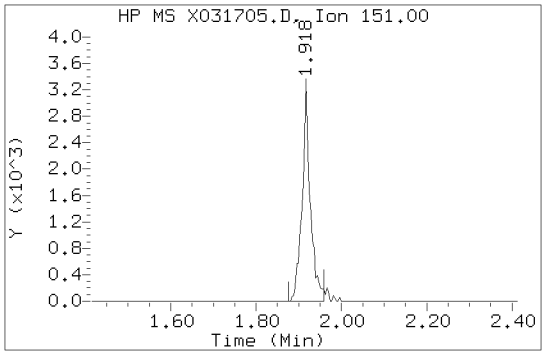
BEFORE

MASS
151
AREA
4526
HEIGHT
3365
30-Mar-2023
12:33
linh
pham



AFTER

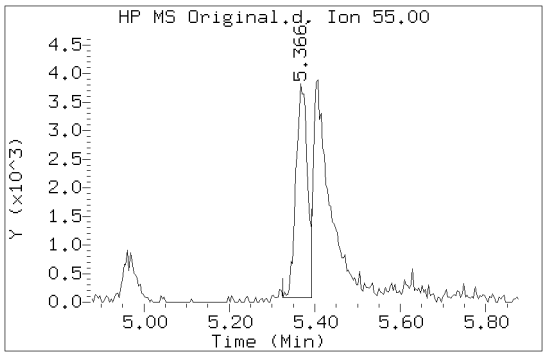
MASS
151
AREA
4526
HEIGHT
3365
30-Mar-2023
12:41
linh
pham



Methylcyclohexane (108-87-2)

BEFORE

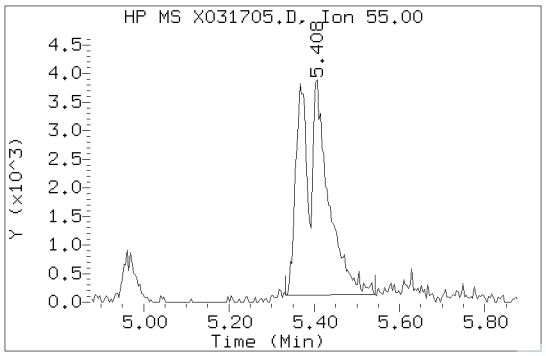
MASS
55
AREA
7180
HEIGHT
3750
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

MASS
55
AREA
16726
HEIGHT
3762
30-Mar-2023
12:41
linh
pham



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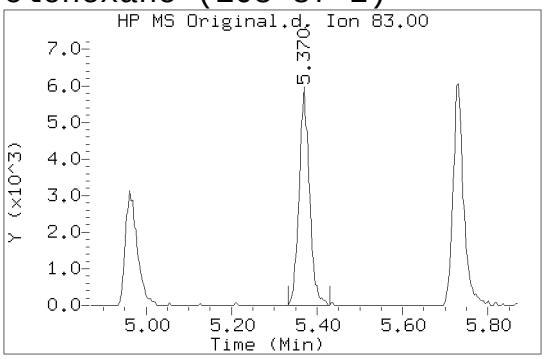
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Methylcyclohexane (108-87-2)

BEFORE

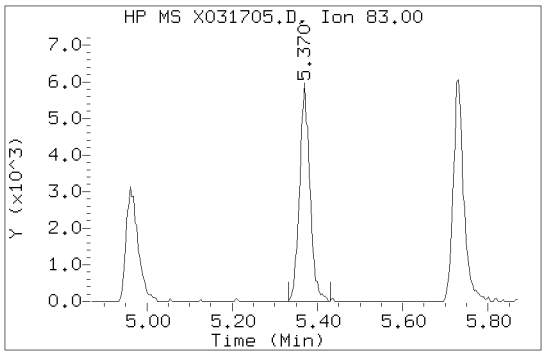
MASS
83
AREA
10272
HEIGHT
5978
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

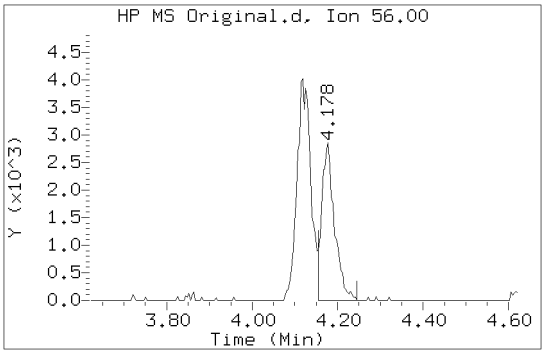
MASS
83
AREA
10272
HEIGHT
5978
30-Mar-2023
12:41
linh
pham



Cyclohexane (110-82-7)

BEFORE

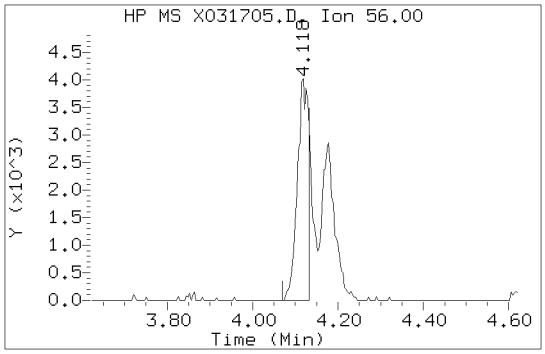
MASS
56
AREA
5934
HEIGHT
2865
30-Mar-2023
12:33
linh
pham



Reason Code:

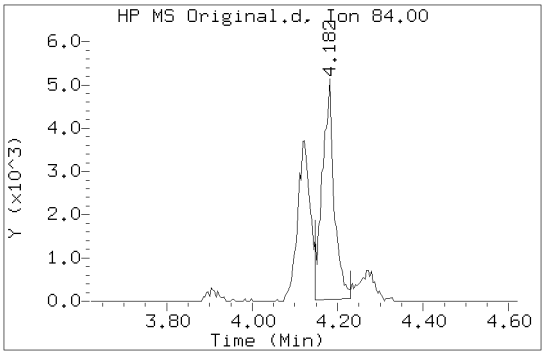
AFTER

MASS
56
AREA
7493
HEIGHT
4022
30-Mar-2023
12:41
linh
pham



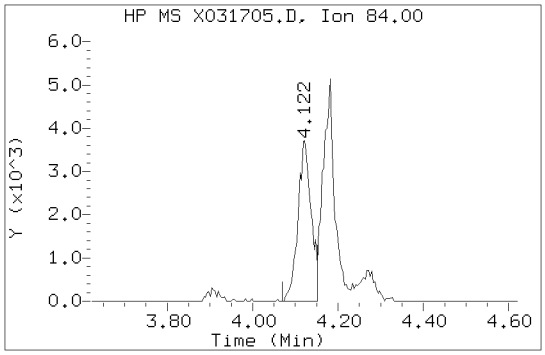
BEFORE

MASS
84
AREA
9905
HEIGHT
5100
30-Mar-2023
12:33
linh
pham



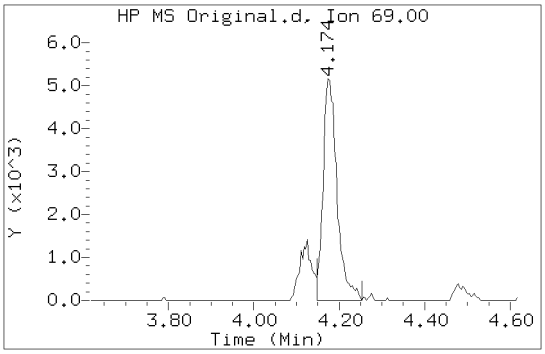
AFTER

MASS
84
AREA
8172
HEIGHT
3709
30-Mar-2023
12:41
linh
pham



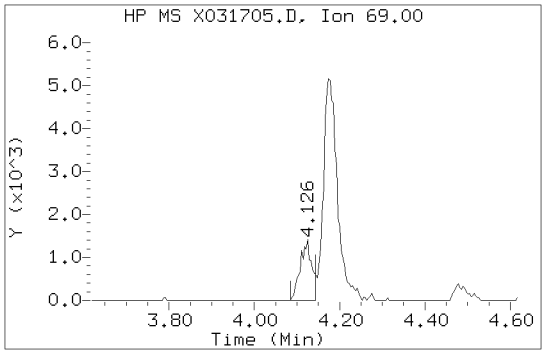
BEFORE

MASS
69
AREA
11725
HEIGHT
5165
30-Mar-2023
12:33
linh
pham



AFTER

MASS
69
AREA
2719
HEIGHT
1421
30-Mar-2023
12:41
linh
pham



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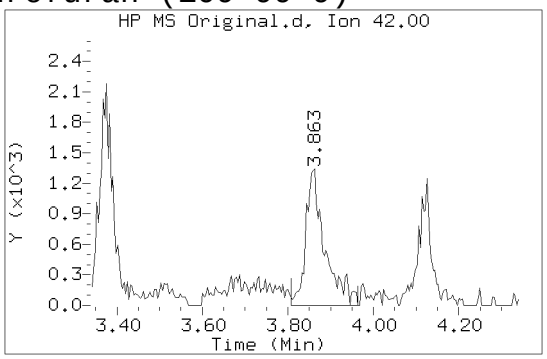
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

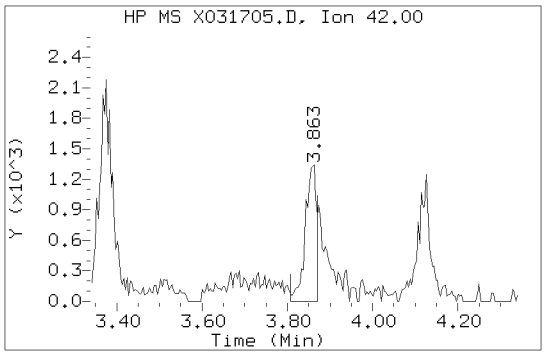
Tetrahydrofuran (109-99-9)

Reason Code:

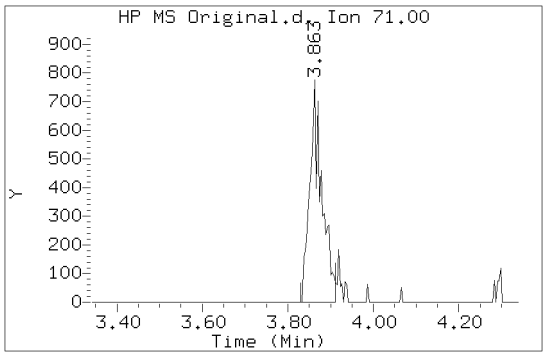
BEFORE
MASS
42
AREA
4203
HEIGHT
1345
30-Mar-2023
12:33
linh
pham



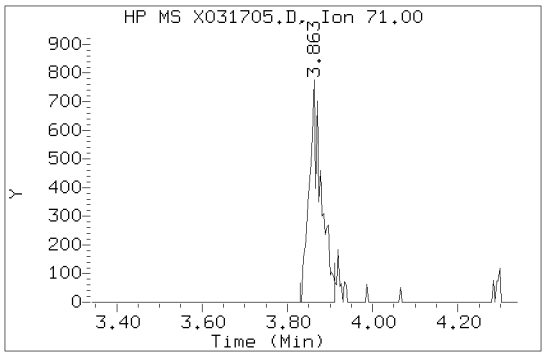
AFTER
MASS
42
AREA
2463
HEIGHT
1345
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
71
AREA
1529
HEIGHT
776
30-Mar-2023
12:33
linh
pham



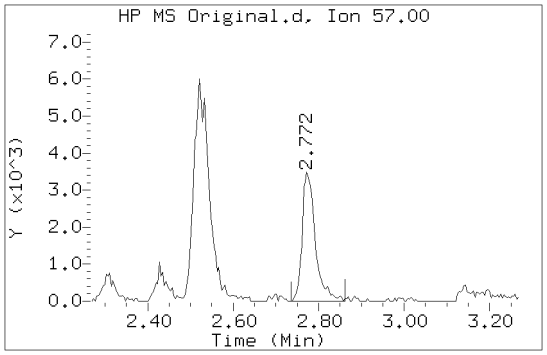
AFTER
MASS
71
AREA
1529
HEIGHT
776
30-Mar-2023
12:41
linh
pham



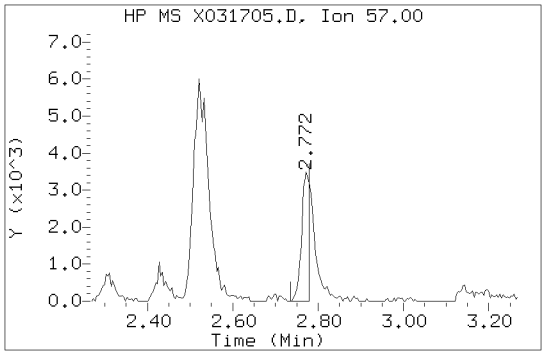
Allyl alcohol (107-18-6)

Reason Code:

BEFORE
MASS
57
AREA
7617
HEIGHT
3483
30-Mar-2023
12:33
linh
pham



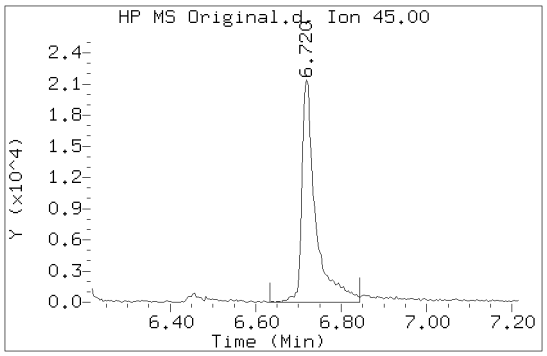
AFTER
MASS
57
AREA
4552
HEIGHT
3483
30-Mar-2023
12:41
linh
pham



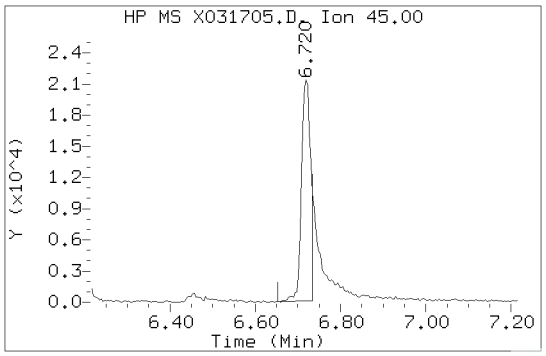
4-Methyl-2-pentanol (108-11-2)

Reason Code:

BEFORE
MASS
45
AREA
48899
HEIGHT
21400
30-Mar-2023
12:33
linh
pham



AFTER
MASS
45
AREA
32931
HEIGHT
21310
30-Mar-2023
12:41
linh
pham



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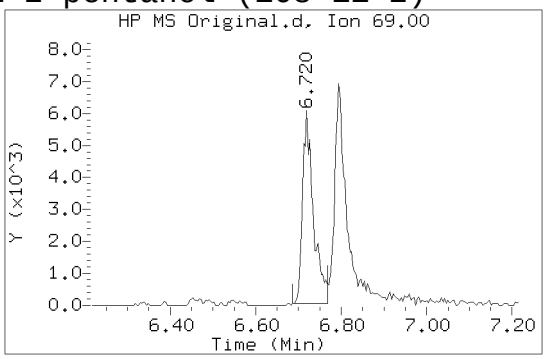
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

4-Methyl-2-pentanol (108-11-2)

Reason Code:

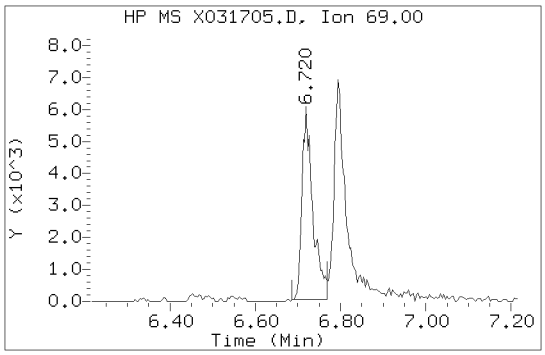
BEFORE

MASS
69
AREA
10752
HEIGHT
6028
30-Mar-2023
12:33
linh
pham



AFTER

MASS
69
AREA
10752
HEIGHT
6028
30-Mar-2023
12:41
linh
pham

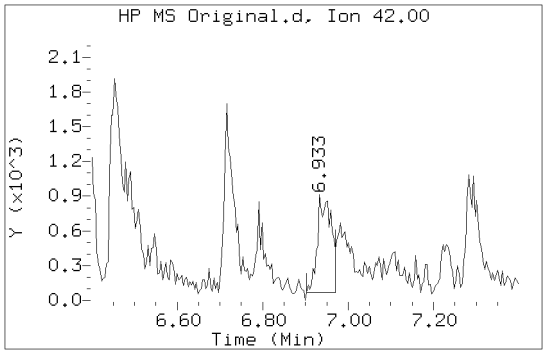


Amyl alcohol (71-41-0)

Reason Code:

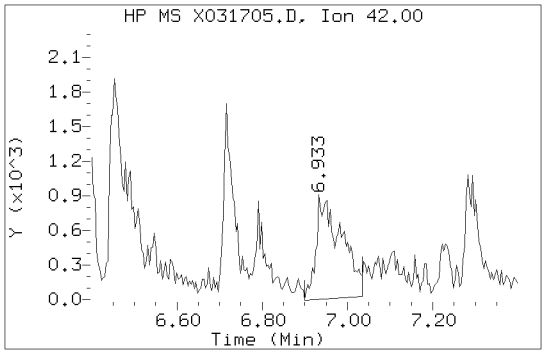
BEFORE

MASS
42
AREA
1896
HEIGHT
843
30-Mar-2023
12:33
linh
pham



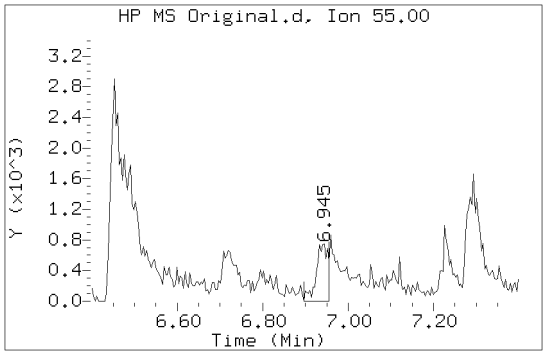
AFTER

MASS
42
AREA
3699
HEIGHT
908
30-Mar-2023
12:41
linh
pham



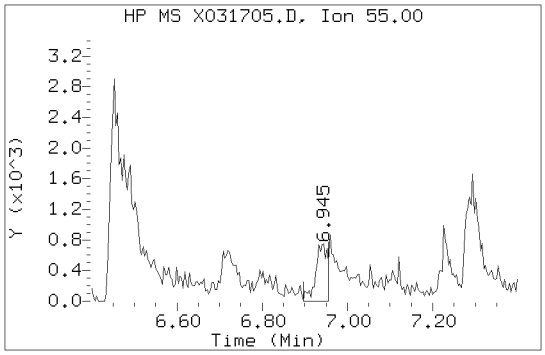
BEFORE

MASS
55
AREA
1444
HEIGHT
744
30-Mar-2023
12:33
linh
pham



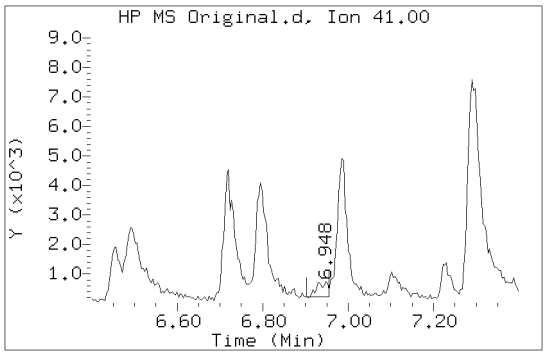
AFTER

MASS
55
AREA
1444
HEIGHT
744
30-Mar-2023
12:41
linh
pham



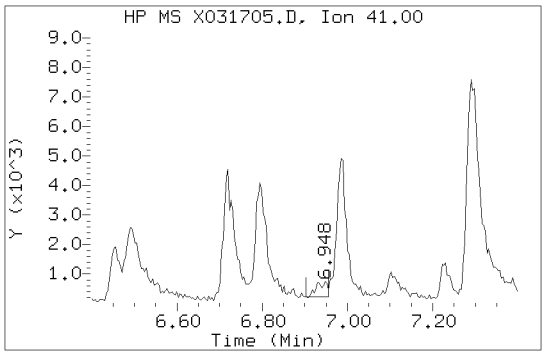
BEFORE

MASS
41
AREA
883
HEIGHT
515
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
883
HEIGHT
515
30-Mar-2023
12:41
linh
pham



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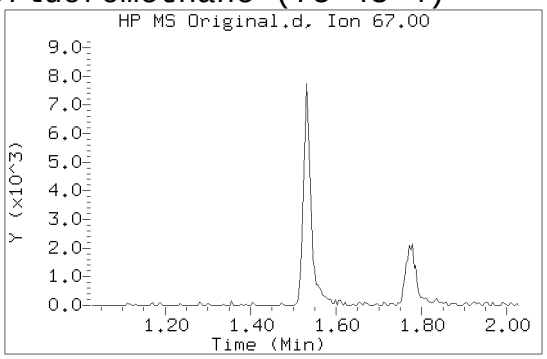
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

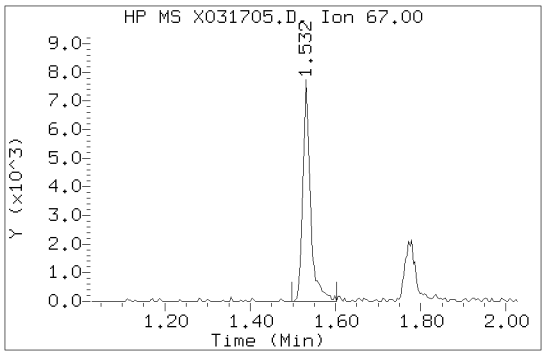
Dichlorofluoromethane (75-43-4)

Reason Code:

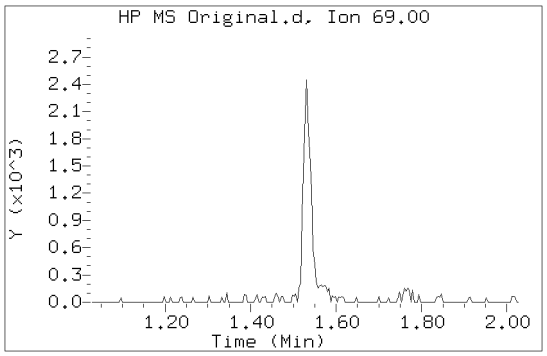
BEFORE
MASS
67
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



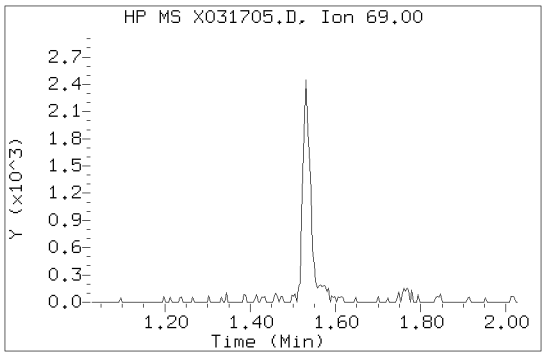
AFTER
MASS
67
AREA
9922
HEIGHT
7742
30-Mar-2023
12:41
linh
pham



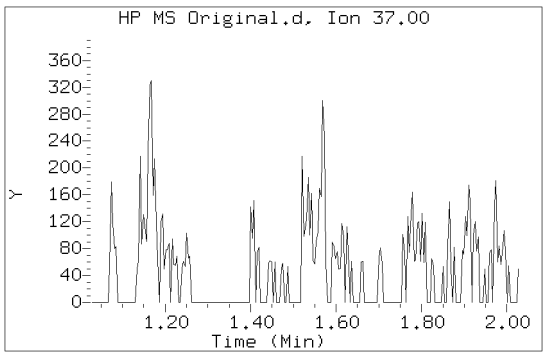
BEFORE
MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



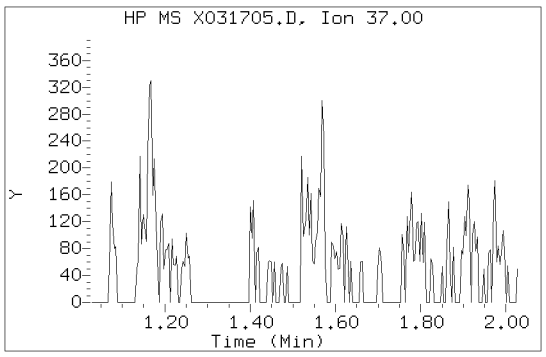
AFTER
MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
37
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



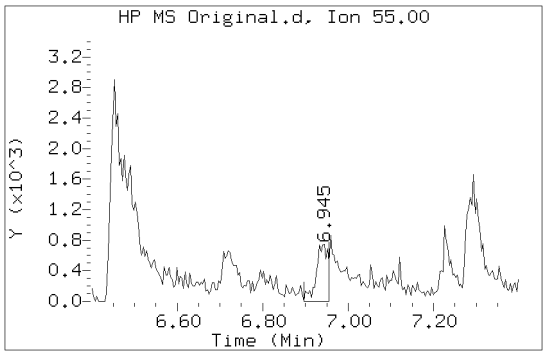
AFTER
MASS
37
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



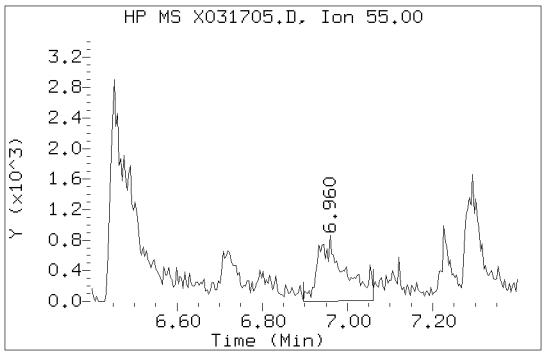
3-Methyl-1-butanol (123-51-3)

Reason Code:

BEFORE
MASS
55
AREA
1444
HEIGHT
744
30-Mar-2023
12:33
linh
pham



AFTER
MASS
55
AREA
3723
HEIGHT
862
30-Mar-2023
12:41
linh
pham



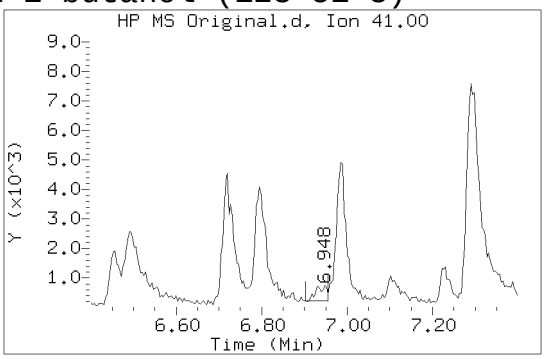
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

3-Methyl-1-butanol (123-51-3)

Reason Code:

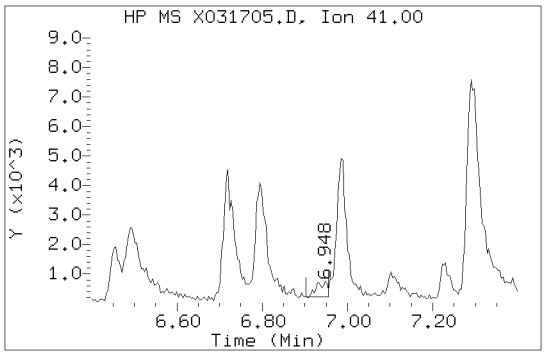
BEFORE

MASS
41
AREA
883
HEIGHT
515
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
883
HEIGHT
515
30-Mar-2023
12:41
linh
pham

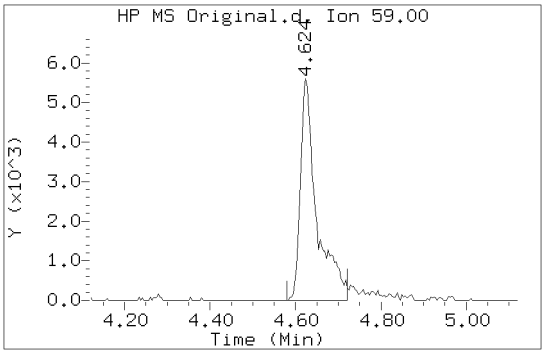


tert-Butyl formate (762-75-4)

Reason Code:

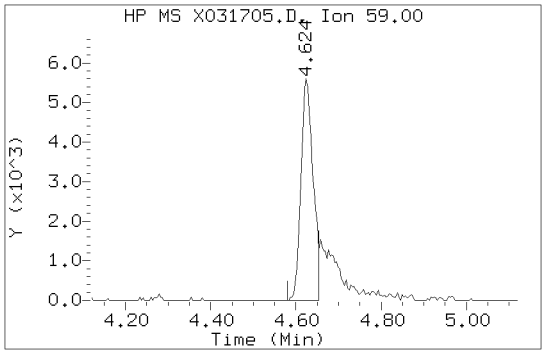
BEFORE

MASS
59
AREA
15126
HEIGHT
5602
30-Mar-2023
12:33
linh
pham



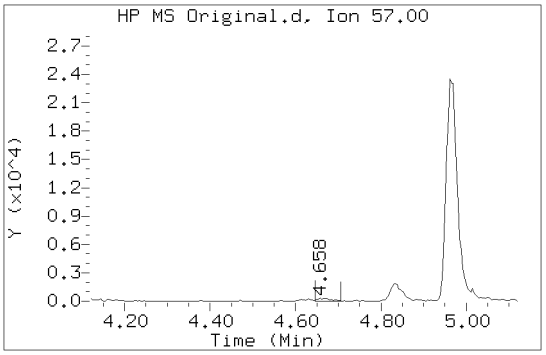
AFTER

MASS
59
AREA
11320
HEIGHT
5602
30-Mar-2023
12:41
linh
pham



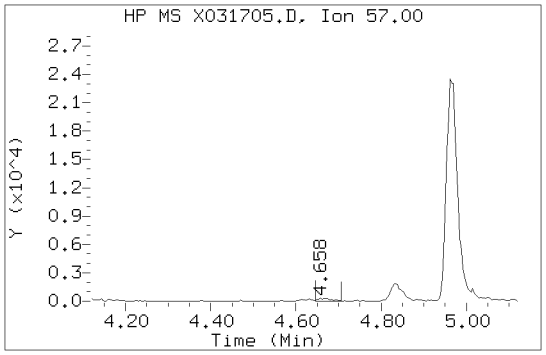
BEFORE

MASS
57
AREA
678
HEIGHT
349
30-Mar-2023
12:33
linh
pham



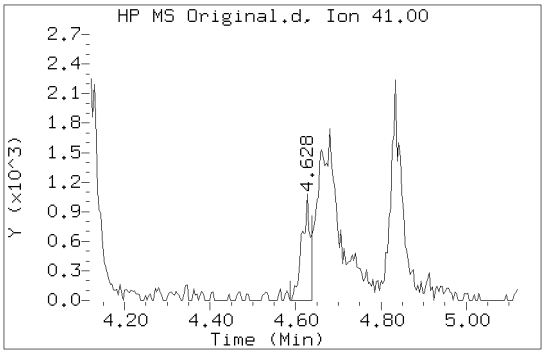
AFTER

MASS
57
AREA
678
HEIGHT
349
30-Mar-2023
12:41
linh
pham



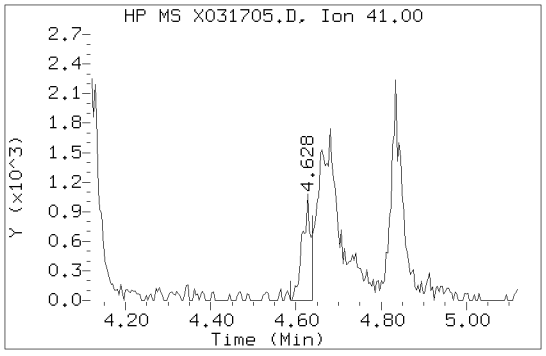
BEFORE

MASS
41
AREA
1513
HEIGHT
1083
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
1513
HEIGHT
1083
30-Mar-2023
12:41
linh
pham



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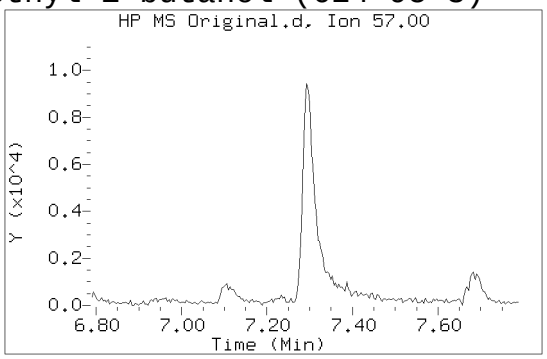
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE
MASS
57
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
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57
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HEIGHT
9284
30-Mar-2023
12:41
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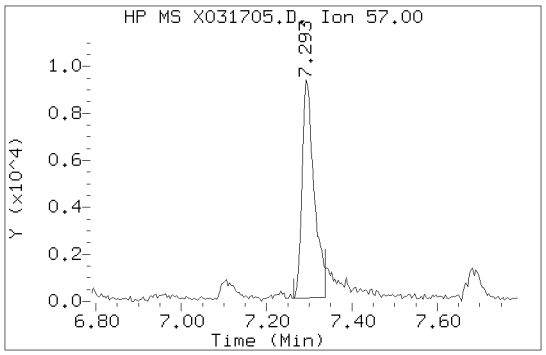

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HEIGHT
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30-Mar-2023
12:33
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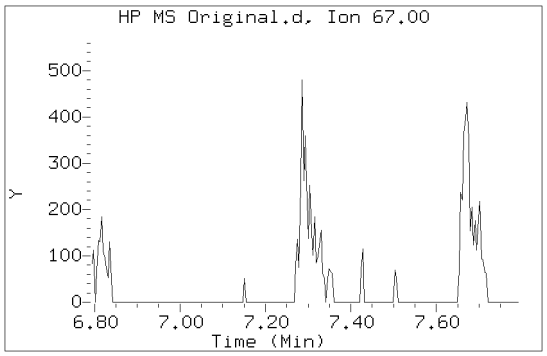

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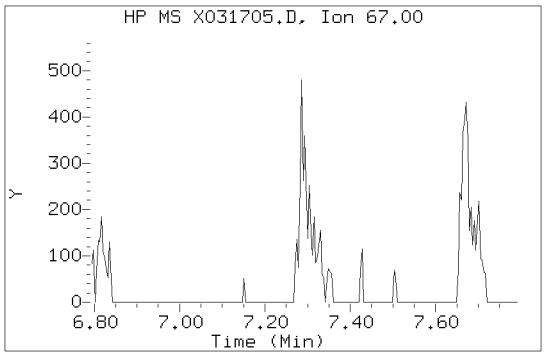

BEFORE
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30-Mar-2023
12:33
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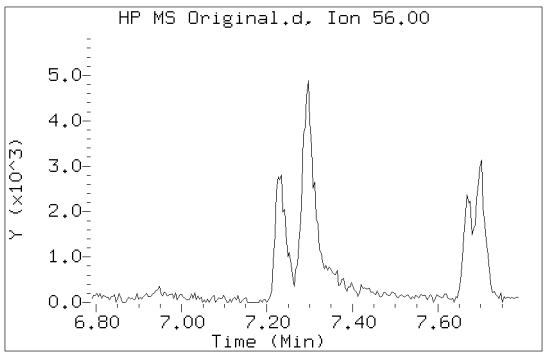

AFTER
MASS
56
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HEIGHT
0
30-Mar-2023
12:41
linh
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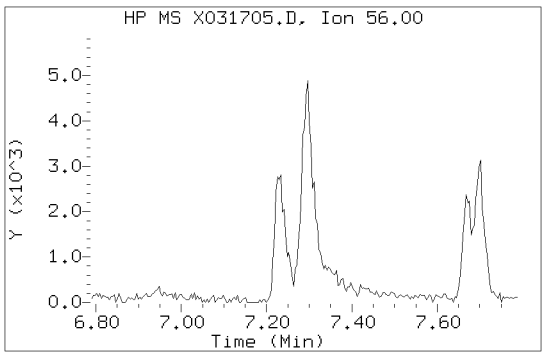
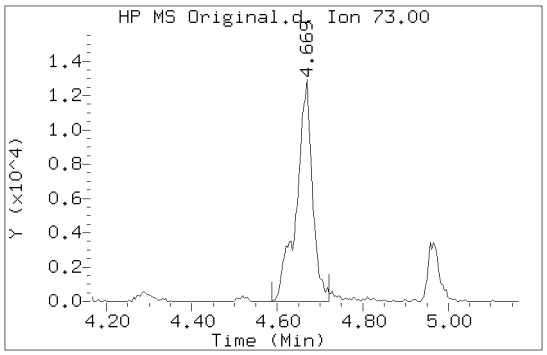


tert-Amyl methyl ether (974-05-08)

Reason Code:

BEFORE
MASS
73
AREA
34081
HEIGHT
12932
30-Mar-2023
12:33
linh
pham



AFTER
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73
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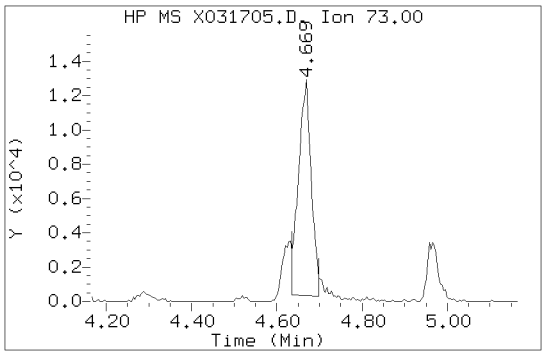
HEIGHT
12587
30-Mar-2023
12:41
linh
pham



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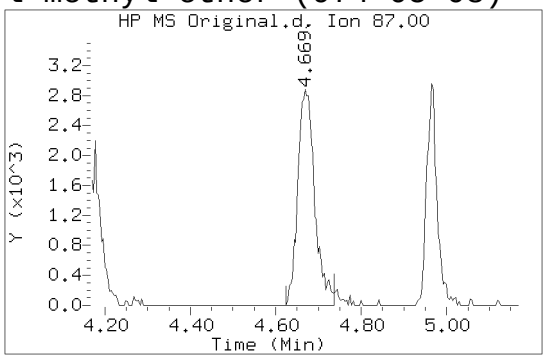
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

tert-Amyl methyl ether (974-05-08)

Reason Code:

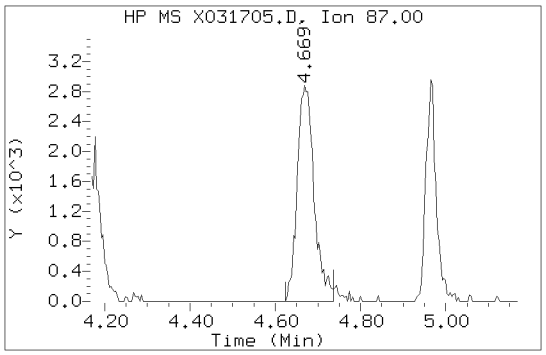
BEFORE

MASS
87
AREA
8078
HEIGHT
2884
30-Mar-2023
12:33
linh
pham



AFTER

MASS
87
AREA
8078
HEIGHT
2884
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
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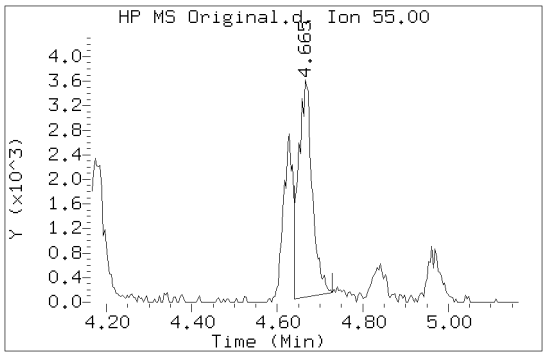
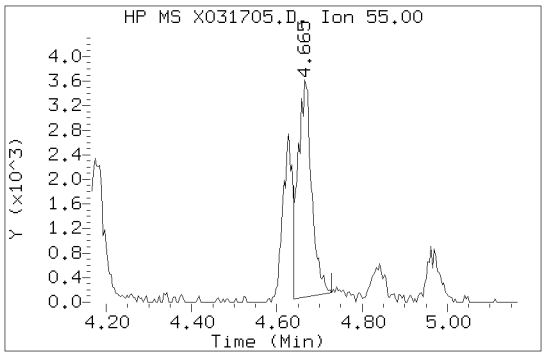
HEIGHT
3535
30-Mar-2023
12:33
linh
pham



AFTER

MASS
55
AREA
8190
HEIGHT
3535
30-Mar-2023
12:41
linh
pham

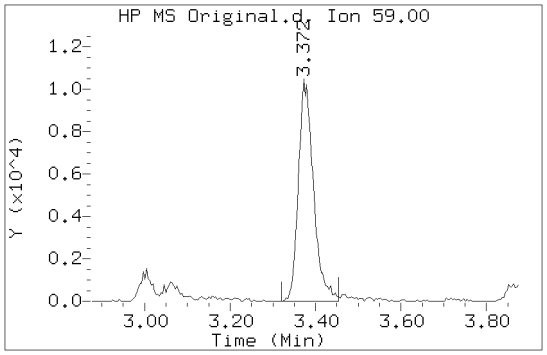


tert-Butyl ethyl ether (637-92-3)

Reason Code:

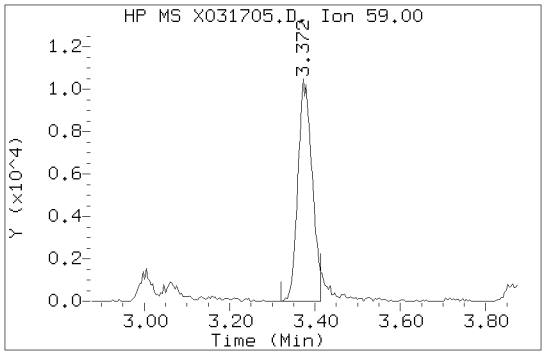
BEFORE

MASS
59
AREA
26012
HEIGHT
10481
30-Mar-2023
12:33
linh
pham



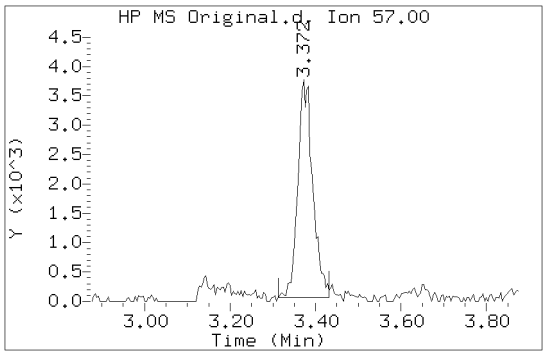
AFTER

MASS
59
AREA
24578
HEIGHT
10481
30-Mar-2023
12:41
linh
pham



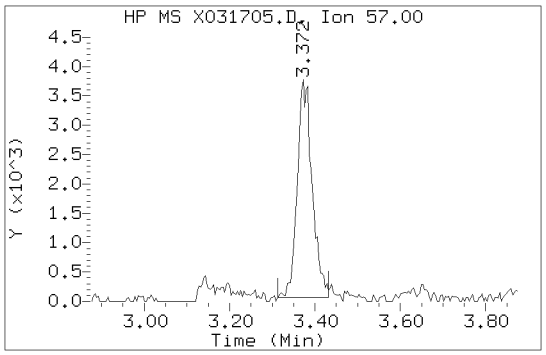
BEFORE

MASS
57
AREA
9190
HEIGHT
3714
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
9190
HEIGHT
3714
30-Mar-2023
12:41
linh
pham



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Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

tert-Butyl ethyl ether (637-92-3)

Reason Code:

BEFORE

MASS
87
AREA
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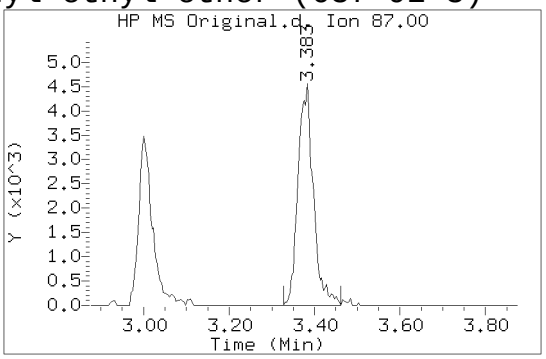
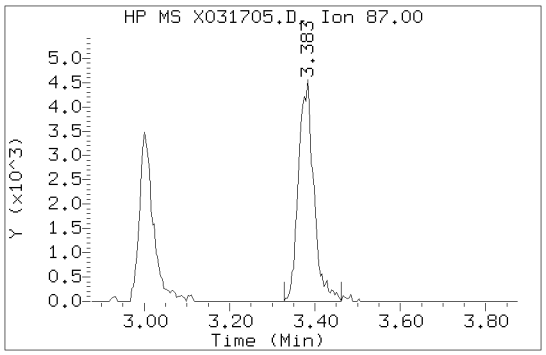
HEIGHT
4560
30-Mar-2023
12:33
linh
pham



AFTER

MASS
87
AREA
11488
HEIGHT
4560
30-Mar-2023
12:41
linh
pham



tert-Amyl alcohol (75-85-4)

Reason Code:

BEFORE

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59
AREA
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30-Mar-2023
12:33
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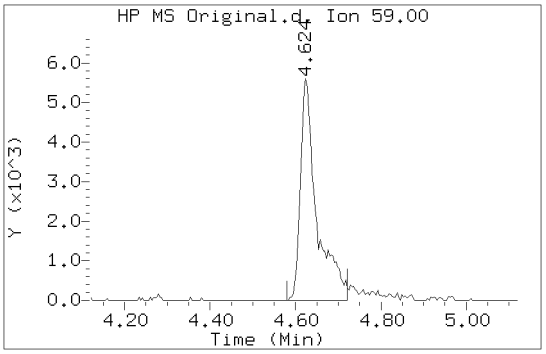

AFTER

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59
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HEIGHT
5602
30-Mar-2023
12:41
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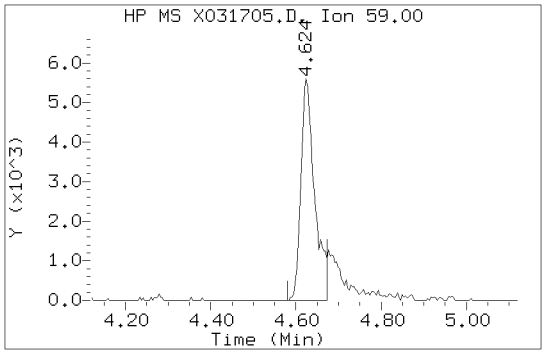
pham



BEFORE

MASS
55
AREA
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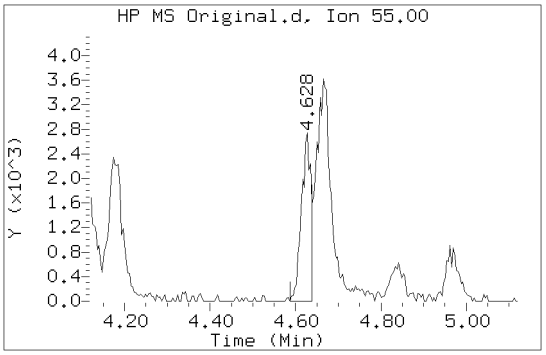
HEIGHT
2742
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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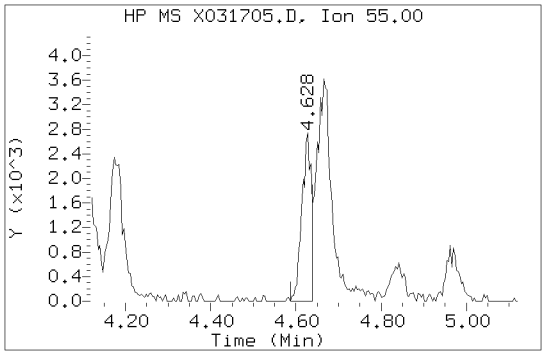
AREA
4285
HEIGHT
2742
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
73
AREA
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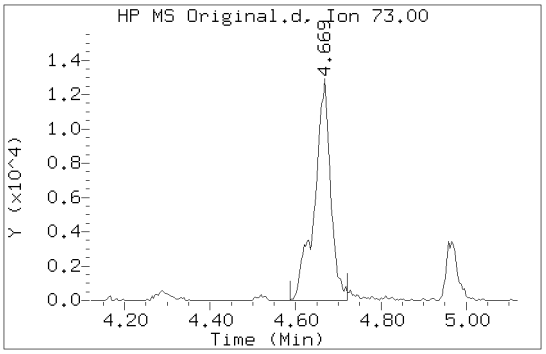
HEIGHT
12932
30-Mar-2023
12:33
linh
pham



AFTER

MASS
73
AREA
34081
HEIGHT
12932
30-Mar-2023
12:41
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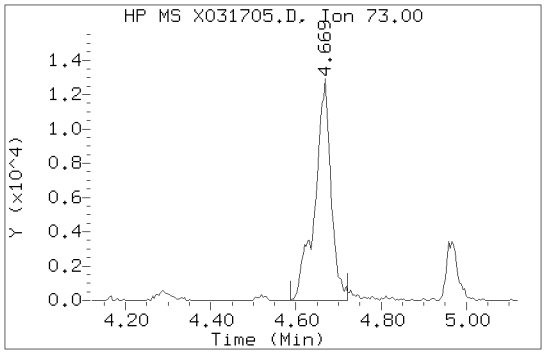

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InstruID : voa6.i
LabSampID : VSTD002

Isoprene (78-79-5)

Reason Code:

BEFORE
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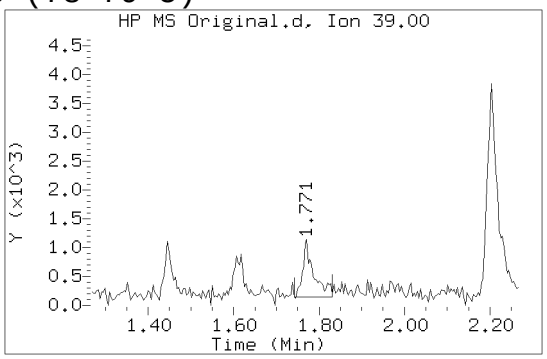
39
AREA
1808
HEIGHT
999
30-Mar-2023
12:33
linh
pham



AFTER
MASS
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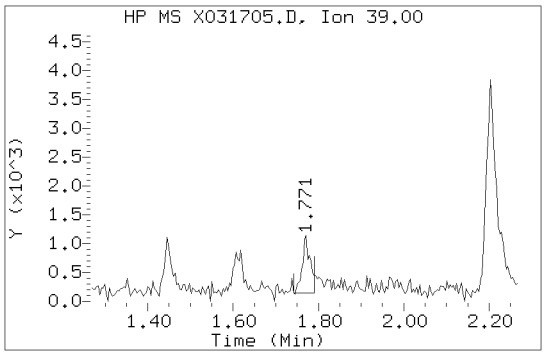
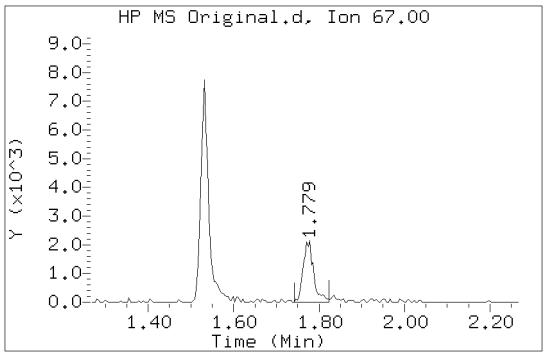
AREA
1305
HEIGHT
999
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
67
AREA
3708
HEIGHT
2160
30-Mar-2023
12:33
linh
pham



AFTER
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3708
HEIGHT
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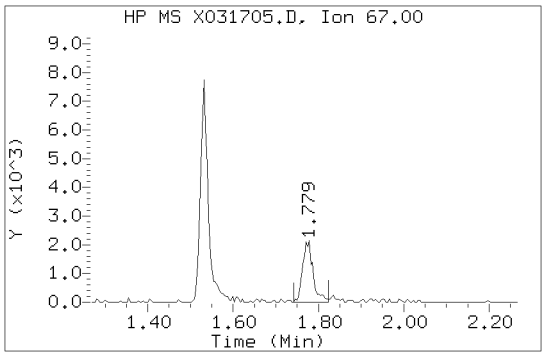
30-Mar-2023
12:41
linh
pham



BEFORE
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53
AREA
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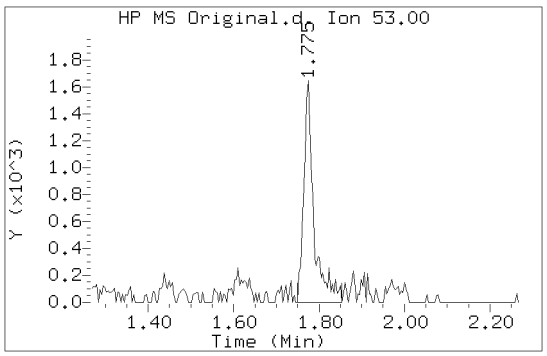
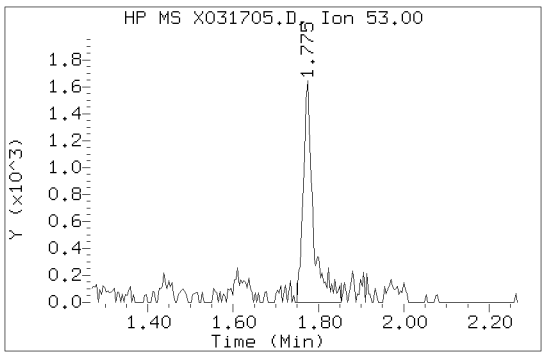
HEIGHT
1645
30-Mar-2023
12:33
linh
pham



AFTER
MASS
53
AREA
2743
HEIGHT
1645
30-Mar-2023
12:41
linh
pham



n-Amyl acetate (628-63-7)

Reason Code:

BEFORE
MASS
43
AREA
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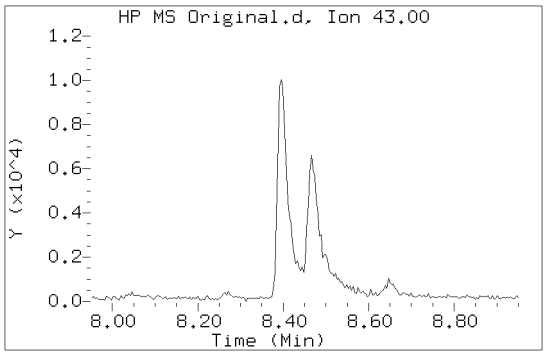
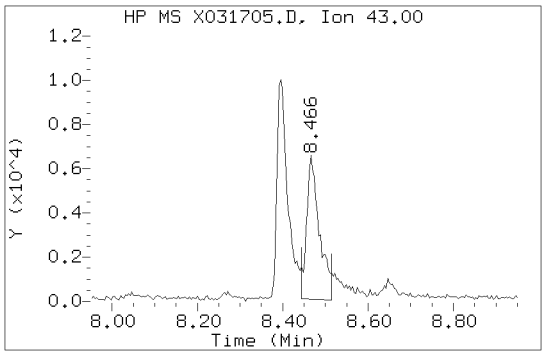
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
43
AREA
13808
HEIGHT
6503
30-Mar-2023
12:41
linh
pham



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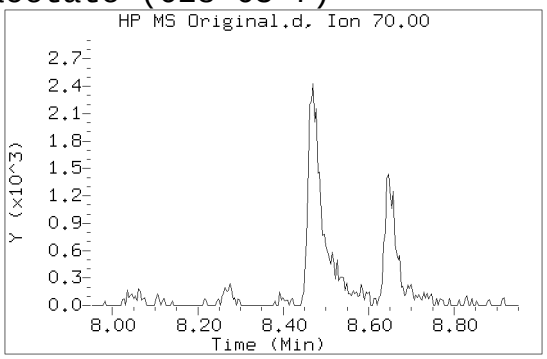
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

n-Amyl acetate (628-63-7)

Reason Code:

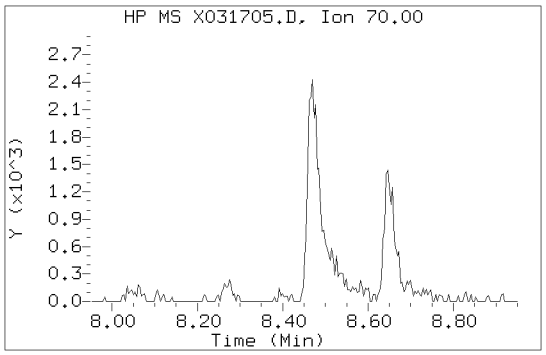
BEFORE

MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



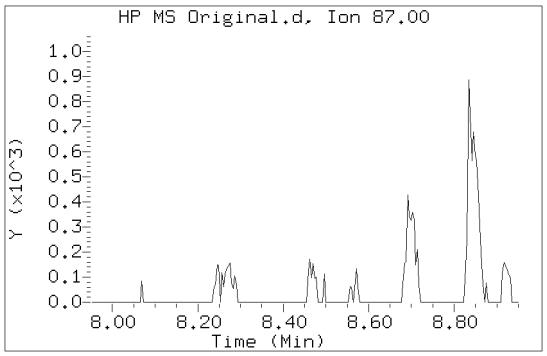
AFTER

MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



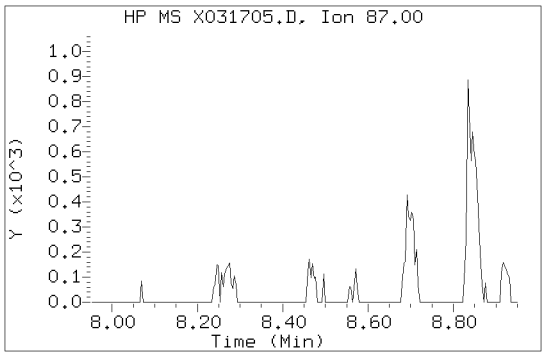
BEFORE

MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

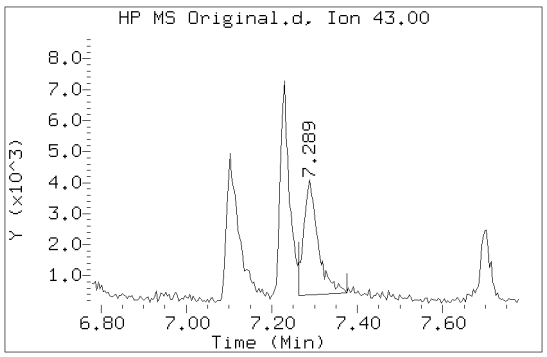


n-Butyl acetate (123-86-4)

Reason Code:

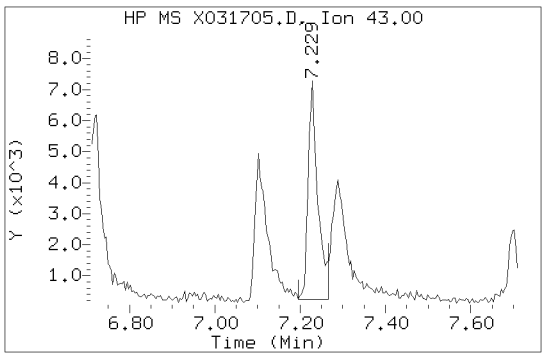
BEFORE

MASS
43
AREA
8781
HEIGHT
3708
30-Mar-2023
12:33
linh
pham



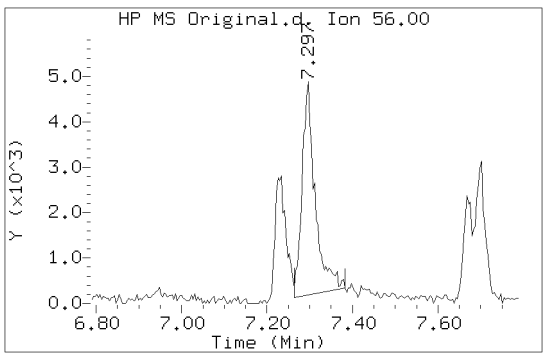
AFTER

MASS
43
AREA
11156
HEIGHT
7031
30-Mar-2023
12:41
linh
pham



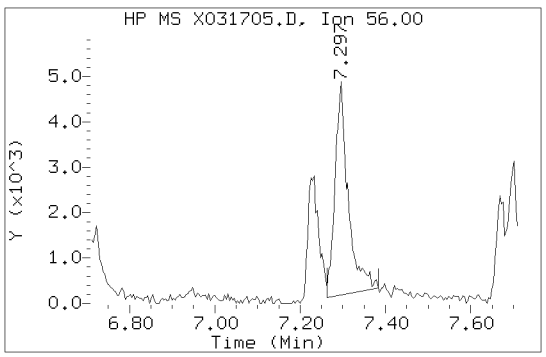
BEFORE

MASS
56
AREA
10025
HEIGHT
4692
30-Mar-2023
12:33
linh
pham



AFTER

MASS
56
AREA
10025
HEIGHT
4692
30-Mar-2023
12:41
linh
pham



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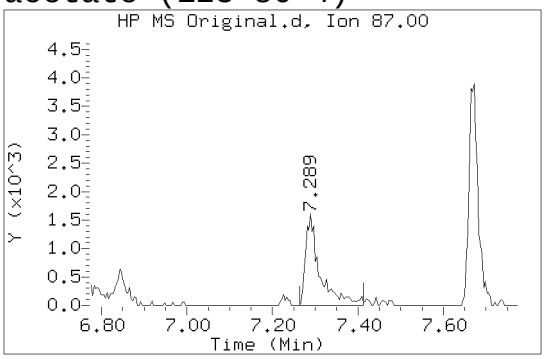
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

n-Butyl acetate (123-86-4)

Reason Code:

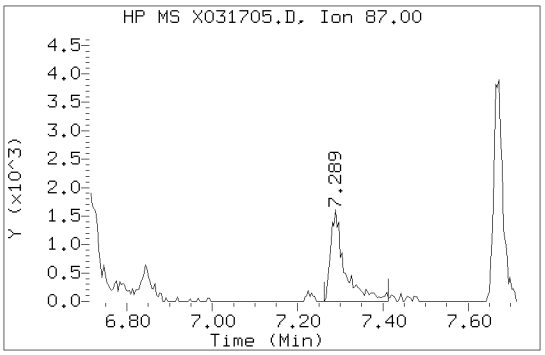
BEFORE

MASS
87
AREA
3729
HEIGHT
1617
30-Mar-2023
12:33
linh
pham



AFTER

MASS
87
AREA
3729
HEIGHT
1617
30-Mar-2023
12:41
linh
pham



Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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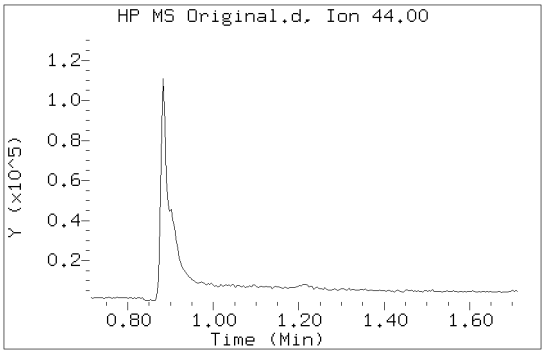

AFTER

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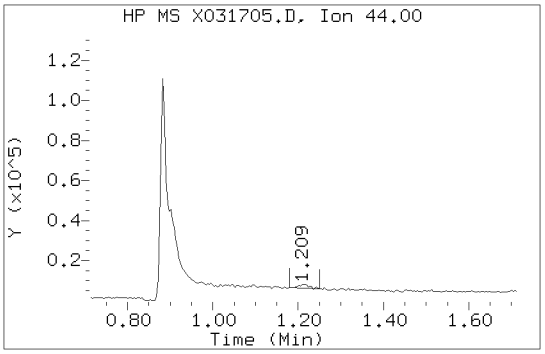

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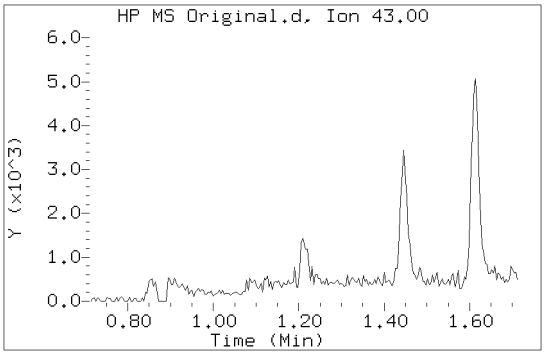

AFTER

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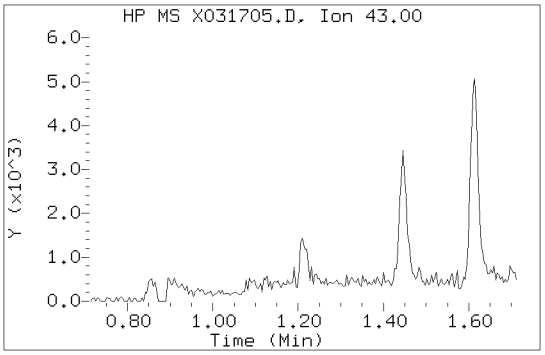

BEFORE

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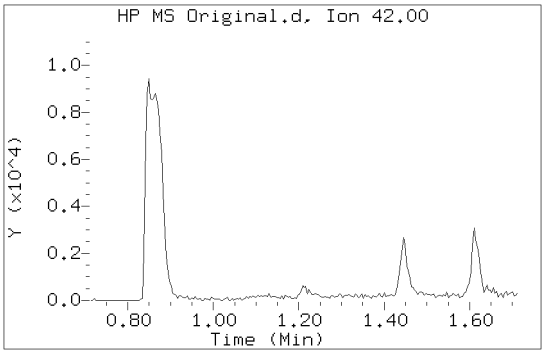

AFTER

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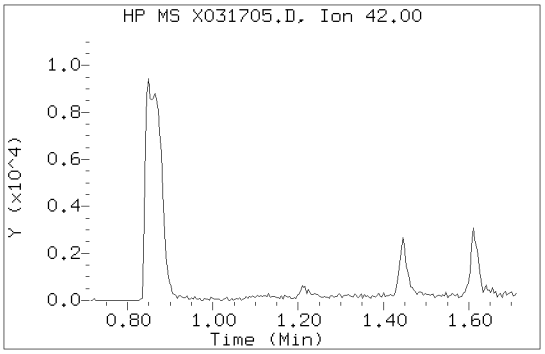

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Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Isobutylene (115-11-7)

Reason Code:

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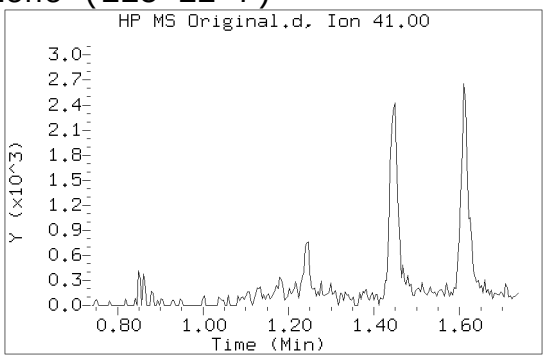

AFTER
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AREA
607
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678
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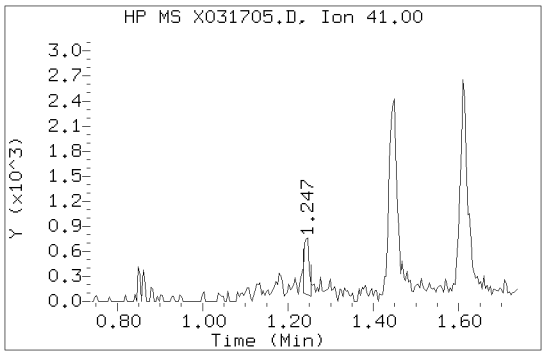

BEFORE
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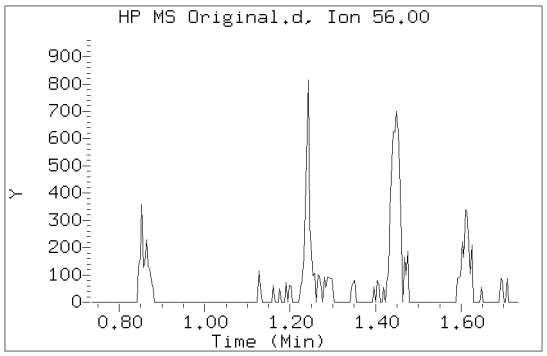

AFTER
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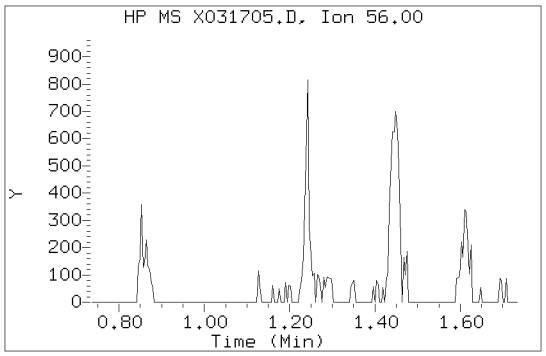

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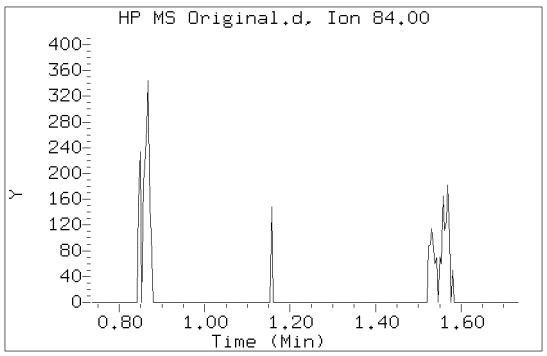

AFTER
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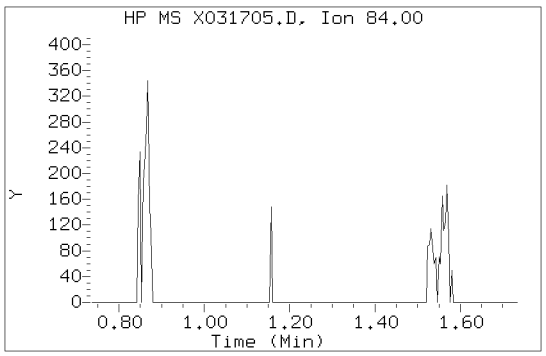

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
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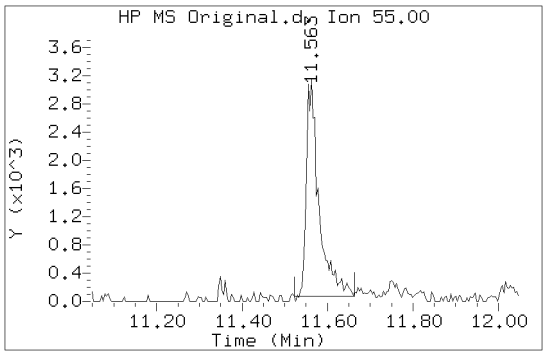

AFTER
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12:41
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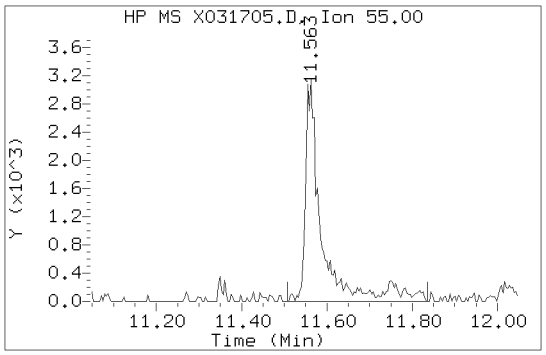

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Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE

MASS
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AREA
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30-Mar-2023
12:33
linh
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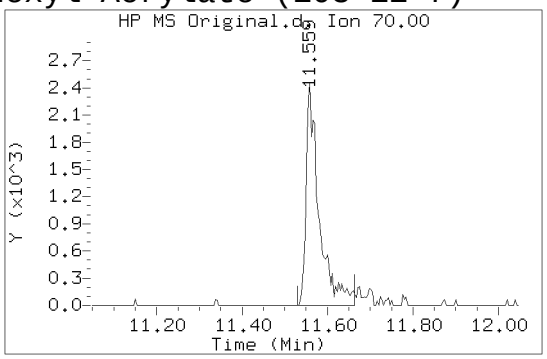

AFTER

MASS
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30-Mar-2023
12:41
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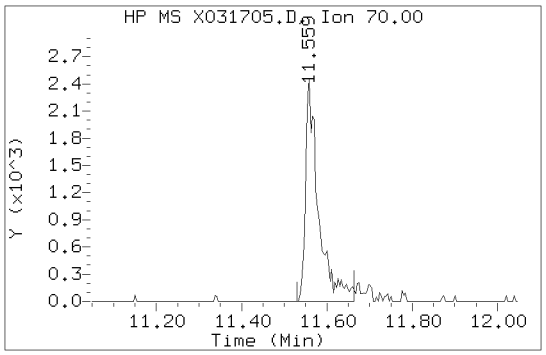

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

BEFORE

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AREA
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12:33
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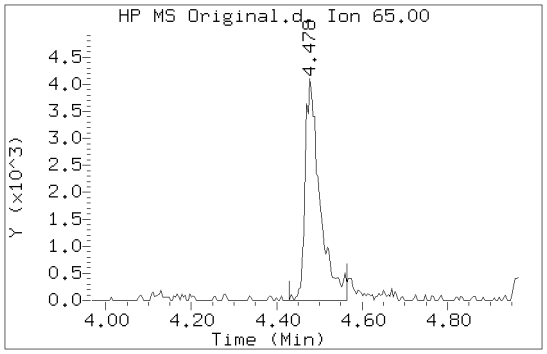

AFTER

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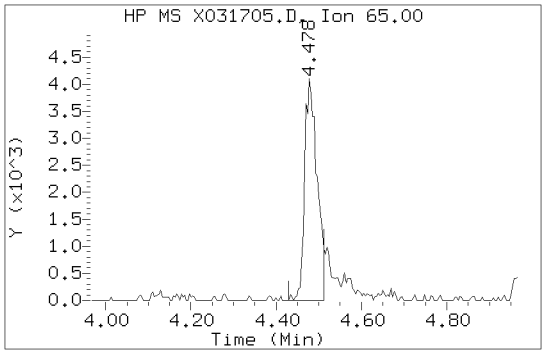

BEFORE

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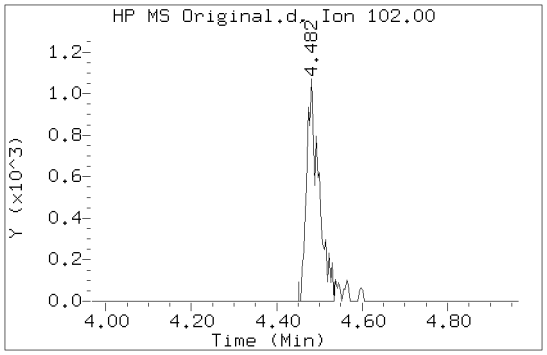

AFTER

MASS
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12:41
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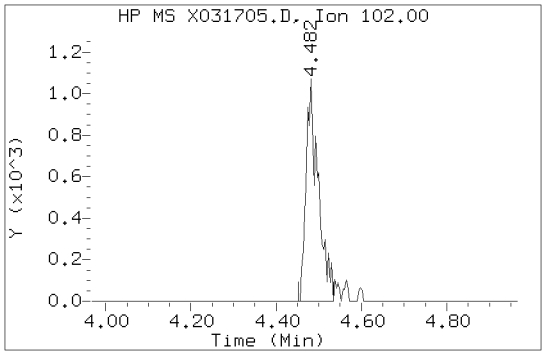
pham



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Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031706.D
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Inj Date : 17-MAR-2023 13:14
Operator : PC Inst ID: voa6.i
Smp Info : VSTD005;VSTD005;1;5;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 12:53 Cal File: X031705.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.177	4.177	(1.000)	376873	50.0000	
2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	9602	5.00000	4.40
3	Chloromethane	50	1.077	1.077	(0.258)	15150	5.00000	4.37
4	Propionitrile	54	3.664	3.664	(0.877)	27505	50.0000	51.79(a)
5	Vinyl Chloride	62	1.141	1.141	(0.273)	12393	5.00000	4.17
6	Bromomethane	94	1.340	1.340	(0.321)	8312	5.00000	4.87(M)
7	Chloroethane	64	1.403	1.403	(0.336)	10038	5.00000	4.76(M)
8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	13046	5.00000	3.70
9	Acrolein	56	1.441	1.441	(0.345)	1386	10.0000	9.38(a)
10	Acetone	43	1.973	1.973	(0.472)	12577	10.0000	8.21
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	9752	5.00000	4.30
12	Isobutyl Alcohol	43	4.680	4.680	(1.120)	54306	100.000	105.61(a)
13	Acetonitrile	39	2.202	2.202	(0.527)	16647	50.0000	47.46(a)
14	Allyl Chloride	41	2.202	2.202	(0.527)	43211	5.00000	4.98(a)
15	Iodomethane	142	2.026	2.026	(0.485)	7971	10.0000	12.11(M)
16	Acrylonitrile	53	2.554	2.554	(0.611)	10967	10.0000	8.72
17	Methylene Chloride	84	2.307	2.307	(0.552)	22035	5.00000	4.45
18	Methyl tert-butyl ether	73	2.535	2.535	(0.607)	59748	5.00000	5.01
19	Carbon Disulfide	76	2.067	2.067	(0.495)	69325	10.0000	8.33
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	14825	5.00000	4.64

21 Vinyl Acetate	43	3.004	3.004 (0.719)	101847	10.0000	10.58
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	26914	5.00000	4.65

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.775	1.775	(0.425)	4844	5.00000	4.68(aM)
	24 2-Butanone	43	3.596	3.596	(0.861)	13776	10.0000	10.20(M)
	25 Methacrylonitrile	41	3.833	3.833	(0.917)	17329	5.00000	4.98(a)
	26 2,2-Dichloropropane	77	3.506	3.506	(0.839)	21125	5.00000	4.40(M)
	27 cis-1,2-Dichloroethene	96	3.536	3.536	(0.847)	18351	5.00000	4.75
	28 Chloroform	83	3.907	3.907	(0.935)	31072	5.00000	4.84
	29 Bromochloromethane	128	3.795	3.795	(0.908)	10798	5.00000	4.93
$	30 Dibromofluoromethane	113	4.106	4.106	(0.983)	18353	5.00000	4.53
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	20575	5.00000	4.28
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	19579	5.00000	4.53(M)
	33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	23720	5.00000	4.71
	34 Carbon Tetrachloride	117	4.267	4.267	(0.860)	19275	5.00000	4.66(M)
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.071)	22180	5.00000	6.39
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	605037	50.0000	
	37 Benzene	78	4.515	4.515	(0.909)	67288	5.00000	4.52
	38 Trichloroethene	130	5.212	5.212	(1.050)	17691	5.00000	4.41(a)
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	25204	5.00000	4.77(a)
	40 Methyl Methacrylate	41	5.613	5.613	(1.344)	16729	5.00000	4.97(a)
	41 2-Chloroethylvinyl ether	63	6.055	6.055	(1.220)	15816	10.0000	9.85(a)
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	18732	5.00000	4.67(a)
	43 2-Nitropropane	43	5.973	5.973	(1.430)	5600	5.00000	4.73(aH)
	44 Dibromomethane	93	5.553	5.553	(1.119)	12886	5.00000	5.03
	45 4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	37709	10.0000	10.29
	46 cis-1,3-Dichloropropene	75	6.157	6.157	(1.240)	31549	5.00000	4.72(a)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	578690	50.0000	
$	48 Toluene-d8	98	6.389	6.389	(0.833)	70347	5.00000	4.90(a)
	49 Ethyl Methacrylate	69	6.711	6.711	(1.352)	23861	5.00000	5.35(a)
	50 Toluene	91	6.449	6.449	(0.841)	70931	5.00000	4.67(a)
	51 trans-1,3-Dichloropropene	75	6.685	6.685	(1.347)	26326	5.00000	4.75(a)
	52 2-Hexanone	43	7.094	7.094	(0.925)	25496	10.0000	10.14
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	16600	5.00000	5.02
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	32551	5.00000	4.96(a)
	55 Dibromochloromethane	129	7.176	7.176	(0.936)	22139	5.00000	4.74(a)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	12717	5.00000	4.17(a)
	57 1,2-Dibromoethane	107	7.263	7.263	(0.947)	20691	5.00000	5.07
	58 1-Chlorohexane	55	7.697	7.697	(1.550)	10247	5.00000	5.62
	59 Chlorobenzene	112	7.694	7.694	(1.003)	51496	5.00000	4.74(a)
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	19284	5.00000	4.61(a)
	61 Ethylbenzene	106	7.802	7.802	(1.018)	23242	5.00000	4.35(a)
	62 m,p-Xylenes	106	7.907	7.907	(1.031)	58404	10.0000	8.69(a)
	63 o-Xylene	106	8.245	8.245	(1.075)	31125	5.00000	4.60(a)
	64 Styrene	104	8.267	8.267	(1.078)	52448	5.00000	4.70(a)
	66 Bromoform	173	8.413	8.413	(1.097)	15137	5.00000	4.69(a)
	67 Isopropylbenzene	105	8.563	8.563	(1.117)	65035	5.00000	4.20(a)
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	28771	5.00000	5.12
$	69 4-Bromofluorobenzene	95	8.695	8.695	(1.134)	32222	5.00000	5.72
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	322470	50.0000	
	71 1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	20798	5.00000	4.92(a)
	72 trans-1,4-Dichloro-2-butene	53	8.897	8.897	(1.160)	5471	5.00000	4.73(a)
	73 n-Propylbenzene	91	8.916	8.916	(0.923)	72647	5.00000	4.05(a)
	74 Bromobenzene	156	8.811	8.811	(0.912)	24742	5.00000	4.77(a)
	75 1,3,5-Trimethylbenzene	105	9.069	9.069	(0.939)	59046	5.00000	4.24(a)

76	2-Chlorotoluene	91	8.976	8.976 (0.929)	56383	5.00000	4.67(a)
77	4-Chlorotoluene	91	9.073	9.073 (0.939)	62362	5.00000	4.59(a)

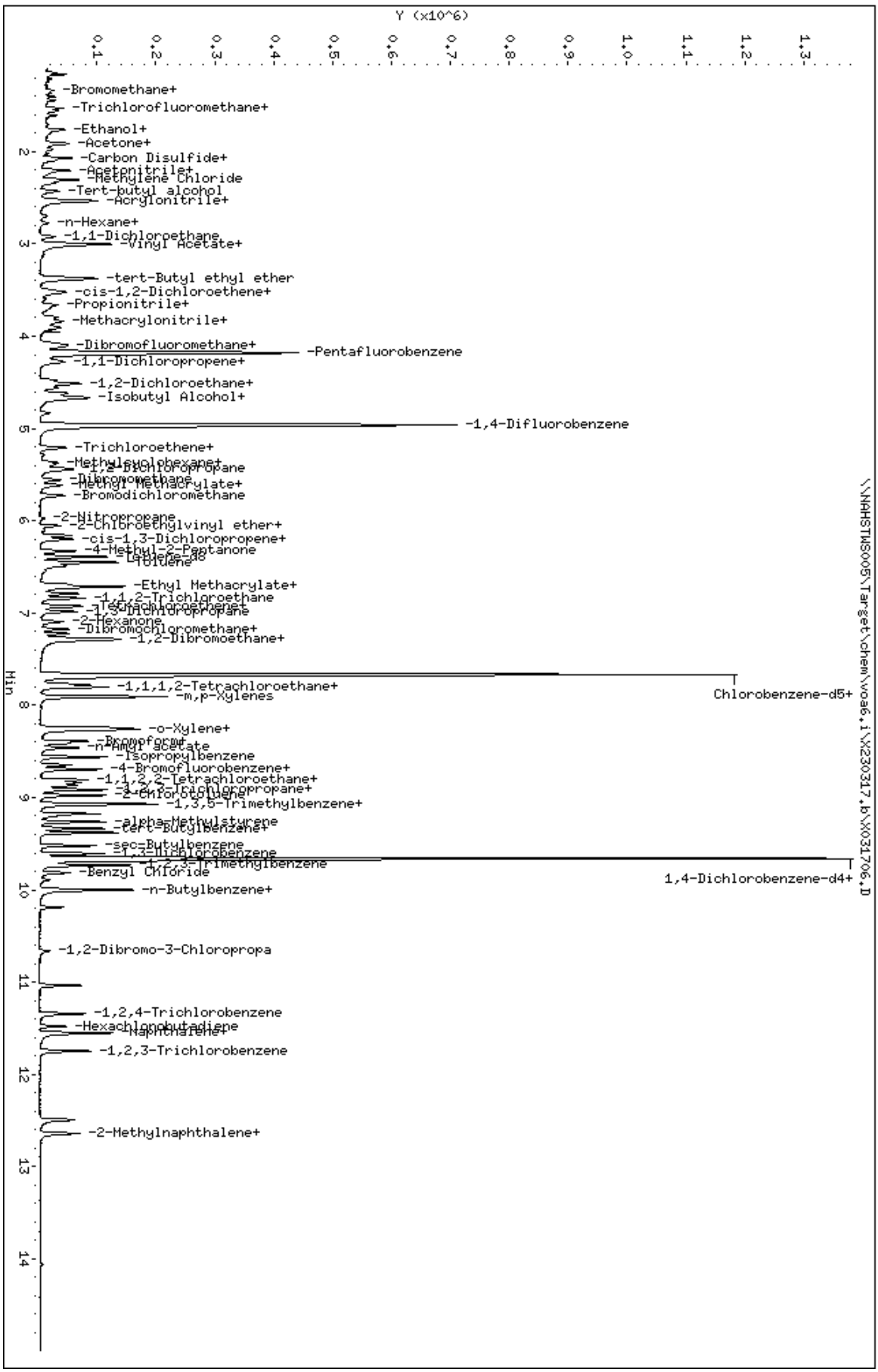
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	44588	5.00000	4.02(a)
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	62250	5.00000	4.36(a)
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	55893	5.00000	3.72(a)
82	p-Isopropyltoluene	119	9.650	9.650	(0.999)	53227	5.00000	3.97(a)
83	1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	40801	5.00000	4.55(a)
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	45850	5.00000	4.75(a)
86	Benzyl Chloride	91	9.812	9.812	(1.280)	37307	5.00000	5.48(M)
87	n-Butylbenzene	91	9.999	9.999	(1.035)	41738	5.00000	3.86(a)
88	1,2-Dichlorobenzene	146	9.995	9.995	(1.035)	41157	5.00000	4.58(a)
89	1,2-Dibromo-3-Chloropropane	155	10.666	10.666	(1.104)	4699	5.00000	5.88
90	1,2,4-Trichlorobenzene	180	11.341	11.341	(1.174)	28955	5.00000	4.41(aM)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	7780	5.00000	4.88(a)
92	Naphthalene	128	11.551	11.551	(1.196)	74713	5.00000	4.74(a)
93	1,2,3-Trichlorobenzene	180	11.746	11.746	(1.216)	28620	5.00000	4.56(a)
146	Methyl acetate	43	2.239	2.239	(0.536)	11068	5.00000	5.10
138	Freon TF	101	1.913	1.913	(0.458)	6618	5.00000	4.41(a)
141	Cyclohexane	56	4.117	4.117	(0.986)	11367	5.00000	4.58(a)
142	Tetrahydrofuran	42	3.851	3.851	(0.922)	6657	10.0000	10.81
147	Methylcyclohexane	55	5.396	5.396	(1.087)	33923	5.00000	4.06(aM)
135	1,4-Dioxane	88	5.606	5.606	(1.342)	5347	100.000	106.92
132	n-Butanol	56	5.287	5.287	(1.266)	6157	100.000	92.87(a)
131	Methyl Acrylate	55	3.709	3.709	(0.888)	19084	5.00000	4.88(aM)
133	Ethyl Acrylate	55	5.396	5.396	(1.292)	32422	5.00000	3.94(M)
136	n-Hexane	57	2.775	2.775	(0.664)	5476	5.00000	2.82(aM)
139	Diethyl ether	59	1.760	1.760	(0.421)	12349	5.00000	4.89(aM)
148	Tert-butyl alcohol	59	2.431	2.431	(0.582)	40924	100.000	103.69
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	22330	100.000	105.88(T)
156	Diisopropyl ether	45	3.000	3.000	(0.718)	58483	5.00000	4.99(Ta)
160	2-Methylnaphthalene	142	12.642	12.642	(1.308)	34409	5.00000	4.42
166	1,2,3-Trimethylbenzene	105	9.733	9.733	(1.007)	71266	5.00000	4.60(a)
167	Ethanol	45	1.700	1.700	(0.407)	3738	100.000	110.59
172	tert-Butyl formate	59	4.620	4.620	(1.106)	30990	10.0000	10.09(M)
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	42905	100.000	96.21(M)
174	tert-Amyl methyl ether	73	4.665	4.665	(1.117)	70640	5.00000	5.23
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.808)	62777	5.00000	5.12
176	tert-Amyl alcohol	59	4.620	4.620	(1.106)	32276	100.000	100.07(M)
151	4-Methyl-2-pentanol	45	6.715	6.715	(1.353)	90297	100.000	102.24(M)
180	1-Methylnaphthalene	142	12.642	12.642	(1.308)	34409	5.00000	(a)
140	1,3-Butadiene	54	1.163	1.163	(0.279)	10056	5.00000	3.93(a)
152	Amyl alcohol	42	6.925	6.925	(0.903)	9340	100.000	89.55
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	22490	5.00000	4.81(M)
159	Propylene oxide	43	1.805	1.805	(0.432)	2716	10.0000	11.55
161	3-Methyl-1-butanol	55	6.918	6.918	(0.902)	9604	100.000	95.09(M)
162	Butyl acrylate	55	8.256	8.256	(1.077)	38847	5.00000	4.54(a)
182	Epichlorohydrin	57	6.104	6.104	(1.230)	6493	20.0000	18.81
M 94	1,2-Dichloroethylene (total)	96				33176	10.0000	(a)
130	Ethyl Acetate	43	3.664	3.664	(0.877)	21420	5.00000	5.50
134	Cyclohexanone	55	8.646	8.646	(0.895)	19881	100.000	103.80(a)
185	Isoprene	39	1.771	1.771	(0.424)	3330	5.00000	4.60(a)
188	Isopropyl acetate	43	4.680	4.680	(0.943)	55812	5.00000	5.09
187	n-Amyl acetate	43	8.458	8.458	(1.103)	37411	5.00000	5.20
189	n-Butyl acetate	43	7.218	7.218	(0.941)	30448	5.00000	4.96(aH)

150 Allyl alcohol	57	2.775	2.775 (0.664)	7188	100.000	71.11(M)
194 Acetaldehyde	44	1.208	1.208 (0.289)	4487	20.0000	19.21(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
195 Methyl Amyl Ketone	43	8.387	8.387	(1.094)	44574	5.00000	4.87(a)
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	32499	5.00000	4.28(a)
202 Isobutylene	41	1.238	1.238	(0.297)	1462	5.00000	4.66(aM)
205 2-Ethylhexyl Acrylate	55	11.555	11.555	(1.196)	18783	5.00000	3.94(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031706.D
Date : 17-MAR-2023 13:14
Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5;
Purge Volume: 5.0
Column phase: DB624

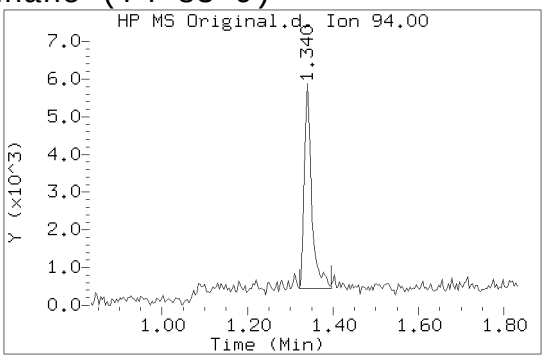
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031706.D
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Bromomethane (74-83-9)

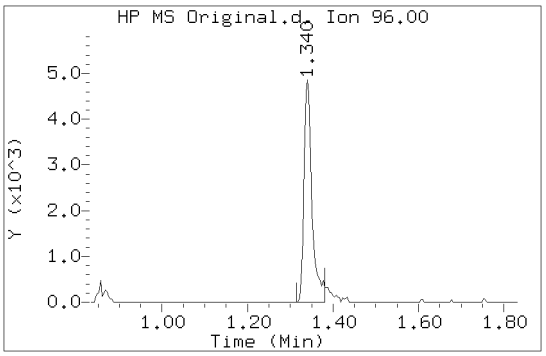
BEFORE

MASS
94
AREA
6797
HEIGHT
5434
30-Mar-2023
12:33
linh
pham



BEFORE

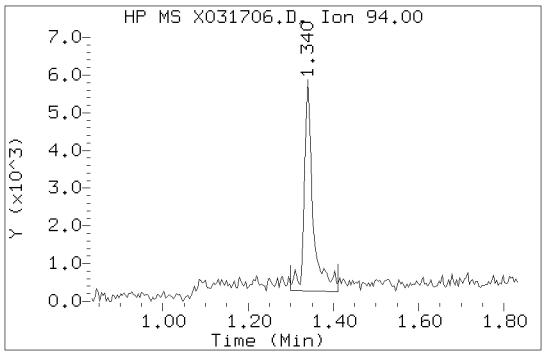
MASS
96
AREA
6541
HEIGHT
4858
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

MASS
94
AREA
8312
HEIGHT
5599
30-Mar-2023
12:41
linh
pham



AFTER

MASS
96
AREA
6541
HEIGHT
4858
30-Mar-2023
12:41
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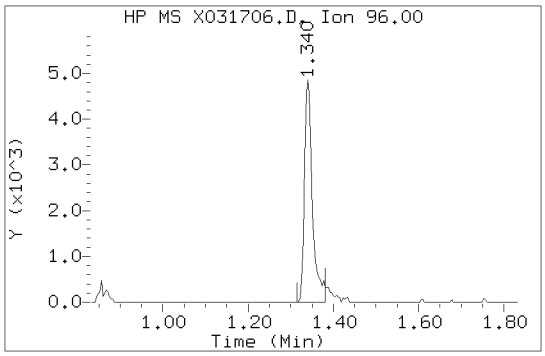
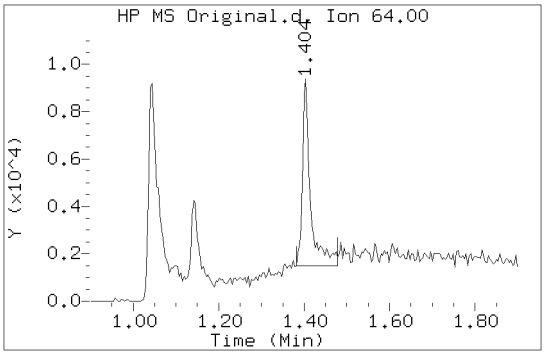
pham



Chloroethane (75-00-3)

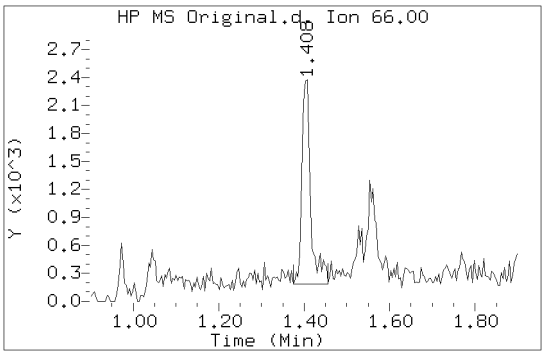
BEFORE

MASS
64
AREA
10679
HEIGHT
7902
30-Mar-2023
12:33
linh
pham



BEFORE

MASS
66
AREA
3257
HEIGHT
2194
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

MASS
64
AREA
10038
HEIGHT
7902
30-Mar-2023
12:41
linh
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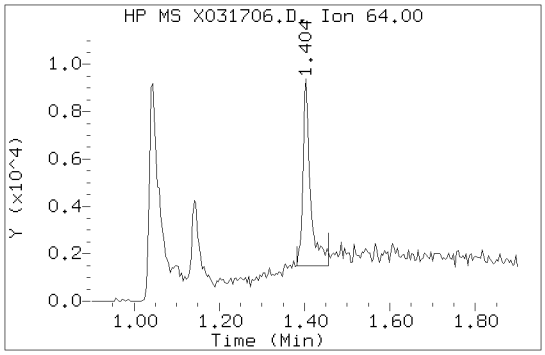
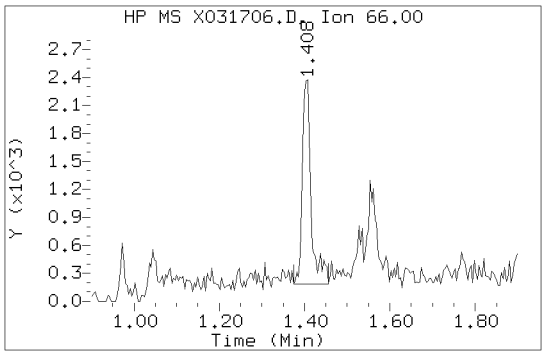


AFTER

MASS
66
AREA
3257
HEIGHT
2194
30-Mar-2023
12:41
linh
pham



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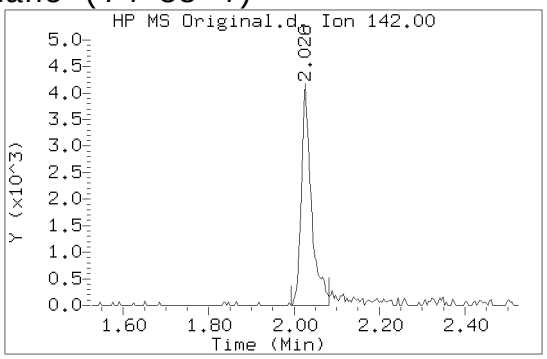
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

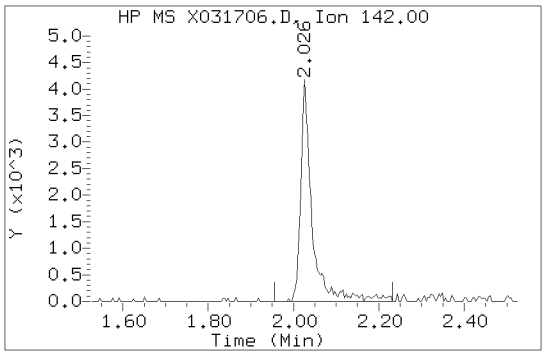
Iodomethane (74-88-4)

Reason Code:

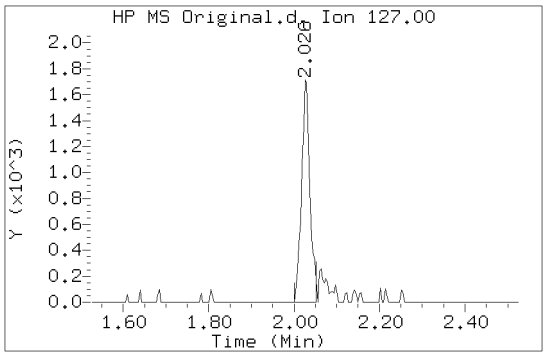
BEFORE
MASS
142
AREA
7012
HEIGHT
4175
30-Mar-2023
12:33
linh
pham



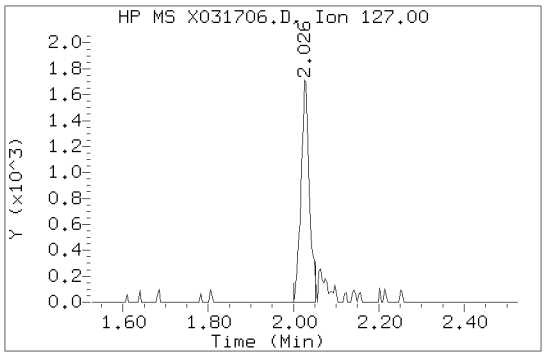
AFTER
MASS
142
AREA
7971
HEIGHT
4175
30-Mar-2023
12:41
linh
pham



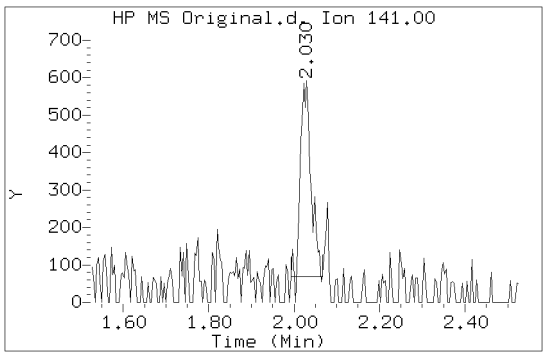
BEFORE
MASS
127
AREA
2404
HEIGHT
1714
30-Mar-2023
12:33
linh
pham



AFTER
MASS
127
AREA
2404
HEIGHT
1714
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
141
AREA
906
HEIGHT
523
30-Mar-2023
12:33
linh
pham



AFTER
MASS
141
AREA
906
HEIGHT
523
30-Mar-2023
12:41
linh
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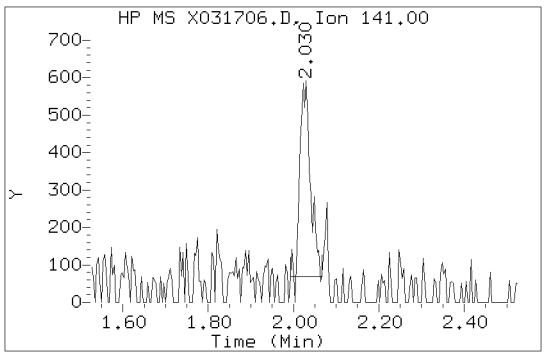
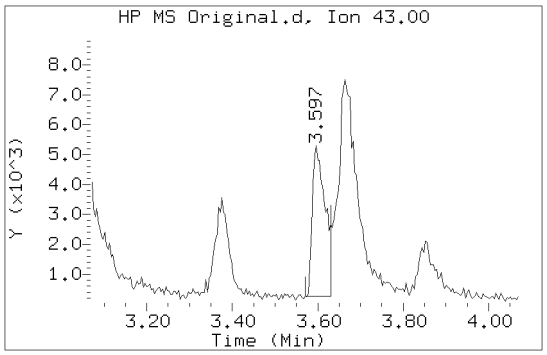


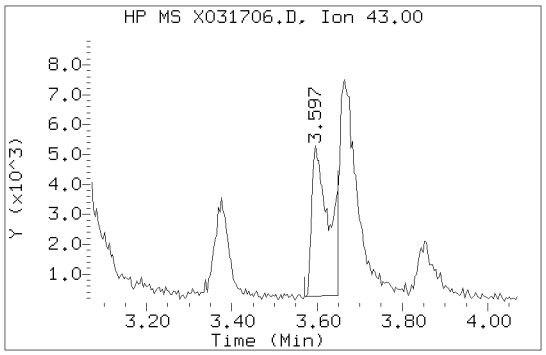
2-Butanone (78-93-3)

Reason Code:

BEFORE
MASS
43
AREA
10492
HEIGHT
5029
30-Mar-2023
12:33
linh
pham



AFTER
MASS
43
AREA
13776
HEIGHT
5026
30-Mar-2023
12:41
linh
pham



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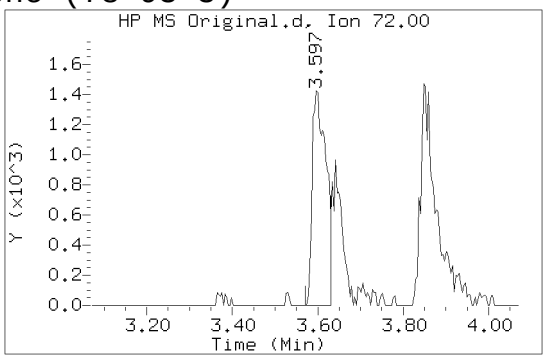
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

2-Butanone (78-93-3)

Reason Code:

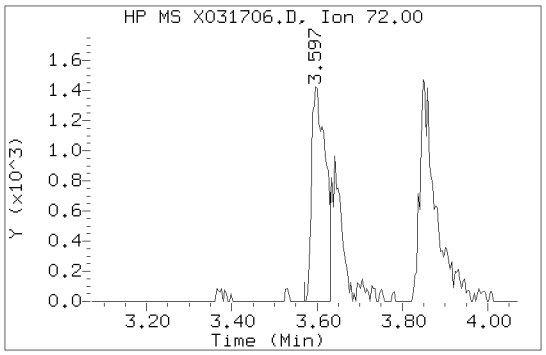
BEFORE

MASS
72
AREA
3197
HEIGHT
1426
30-Mar-2023
12:33
linh
pham



AFTER

MASS
72
AREA
3197
HEIGHT
1426
30-Mar-2023
12:41
linh
pham

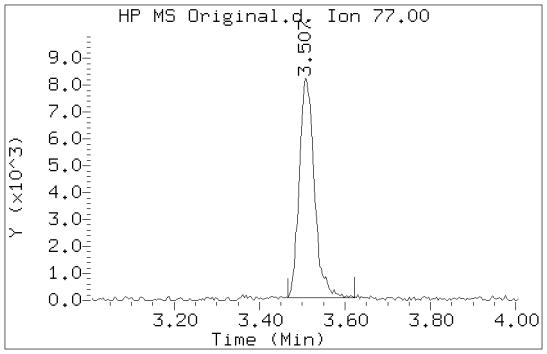


2,2-Dichloropropane (594-20-7)

Reason Code:

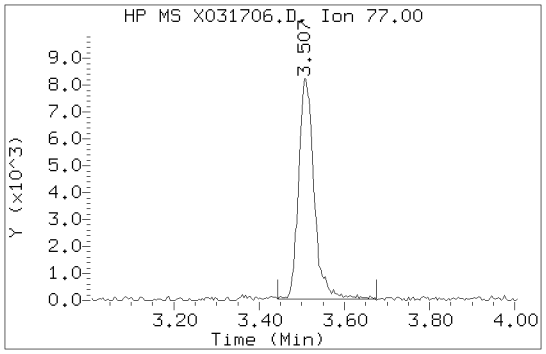
BEFORE

MASS
77
AREA
20361
HEIGHT
8142
30-Mar-2023
12:33
linh
pham



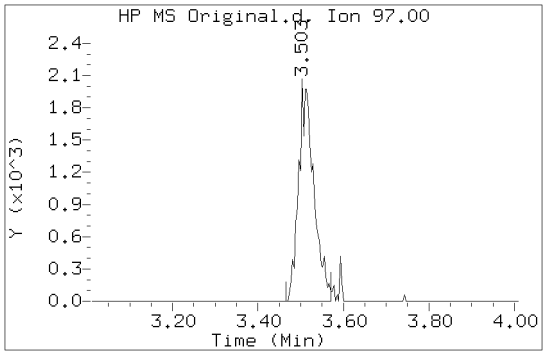
AFTER

MASS
77
AREA
21125
HEIGHT
8195
30-Mar-2023
12:41
linh
pham



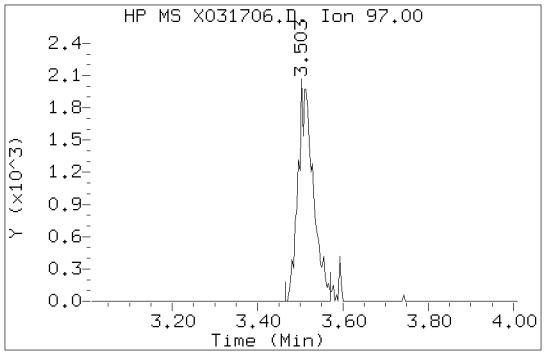
BEFORE

MASS
97
AREA
5143
HEIGHT
2069
30-Mar-2023
12:33
linh
pham



AFTER

MASS
97
AREA
5143
HEIGHT
2069
30-Mar-2023
12:41
linh
pham

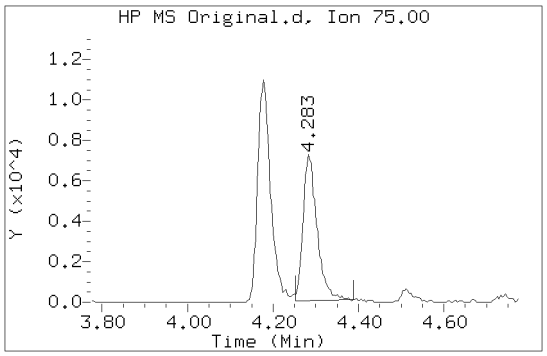


1,1-Dichloropropene (563-58-6)

Reason Code:

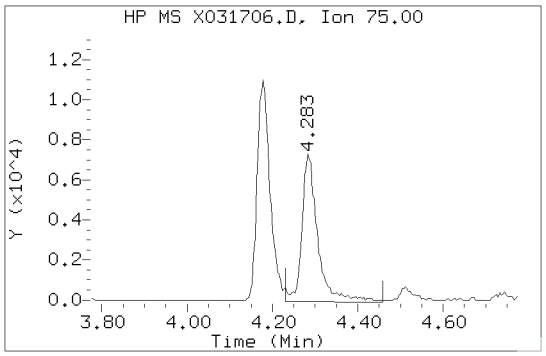
BEFORE

MASS
75
AREA
16689
HEIGHT
7223
30-Mar-2023
12:33
linh
pham



AFTER

MASS
75
AREA
19579
HEIGHT
7385
30-Mar-2023
12:41
linh
pham



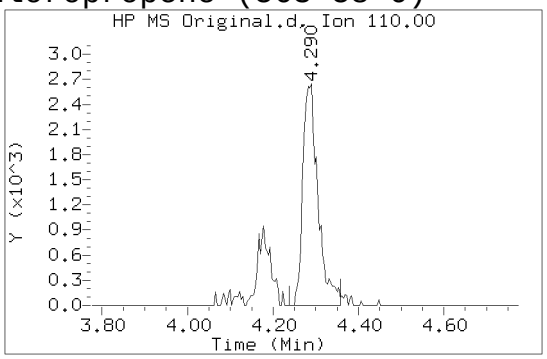
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031706.D
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

1,1-Dichloropropene (563-58-6)

Reason Code:

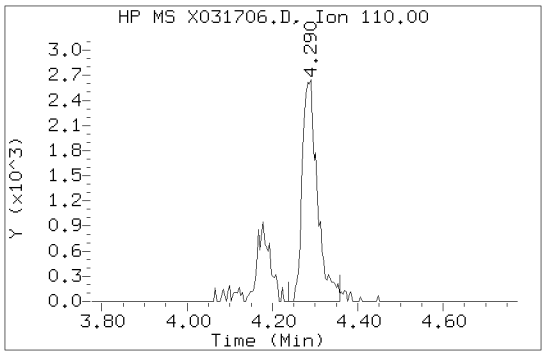
BEFORE

MASS
110
AREA
6613
HEIGHT
2648
30-Mar-2023
12:33
linh
pham



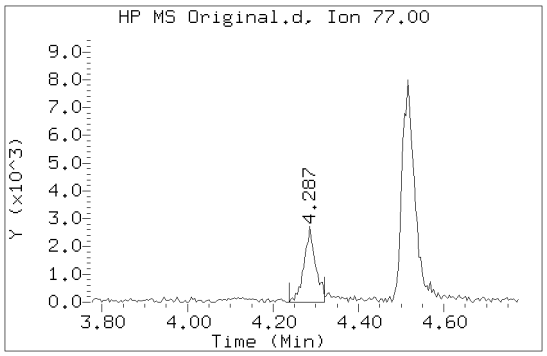
AFTER

MASS
110
AREA
6613
HEIGHT
2648
30-Mar-2023
12:41
linh
pham



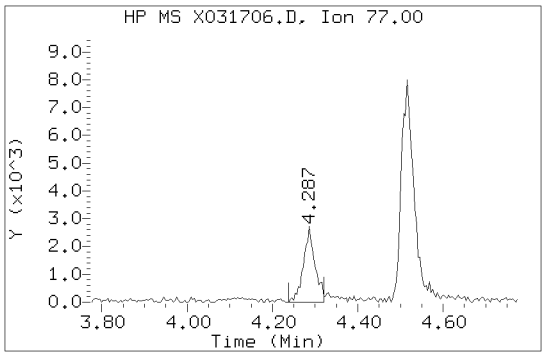
BEFORE

MASS
77
AREA
5175
HEIGHT
2721
30-Mar-2023
12:33
linh
pham



AFTER

MASS
77
AREA
5175
HEIGHT
2721
30-Mar-2023
12:41
linh
pham



Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE

MASS
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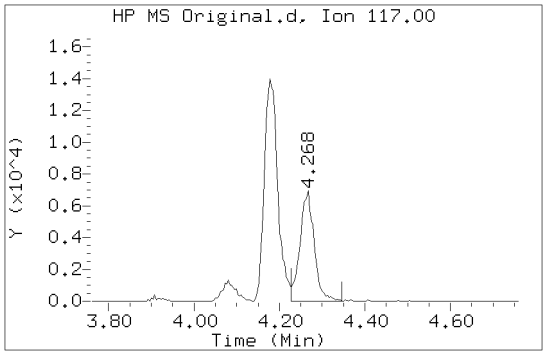
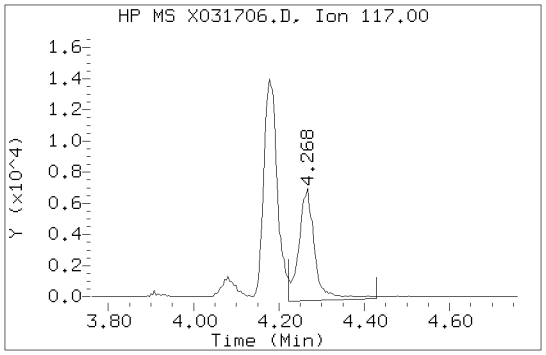
AREA
16351
HEIGHT
6971
30-Mar-2023
12:33
linh
pham



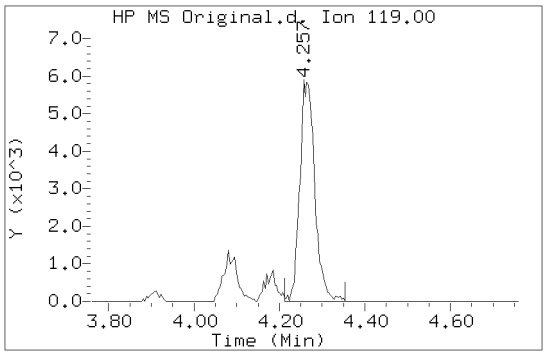
AFTER

MASS
117
AREA
19275
HEIGHT
7216
30-Mar-2023
12:41
linh
pham



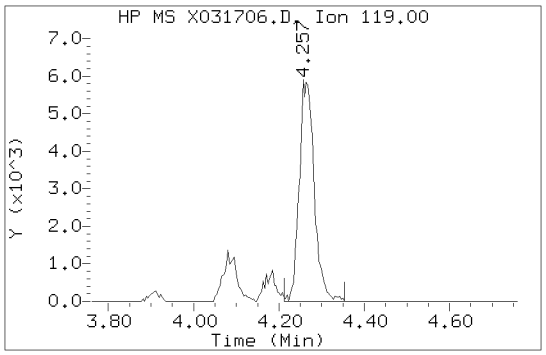
BEFORE

MASS
119
AREA
14616
HEIGHT
5908
30-Mar-2023
12:33
linh
pham



AFTER

MASS
119
AREA
14616
HEIGHT
5908
30-Mar-2023
12:41
linh
pham



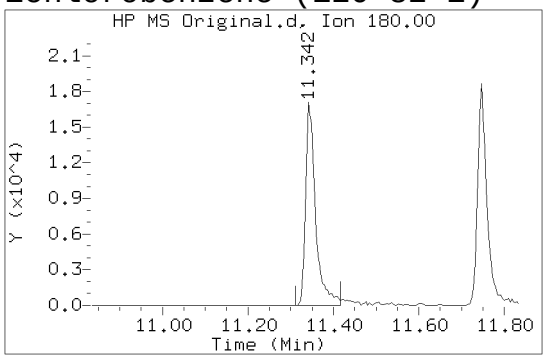
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031706.D
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

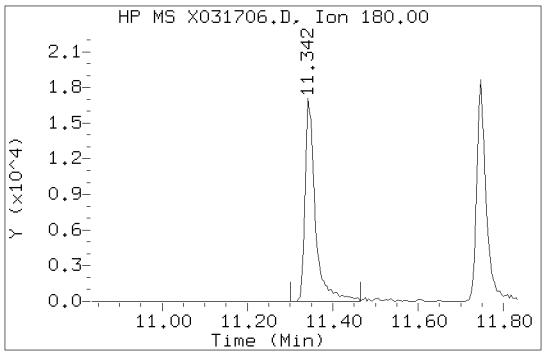
BEFORE

MASS
180
AREA
28022
HEIGHT
17112
30-Mar-2023
12:33
linh
pham



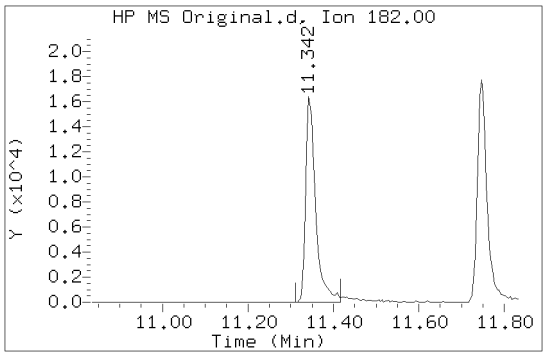
AFTER

MASS
180
AREA
28955
HEIGHT
17112
30-Mar-2023
12:41
linh
pham



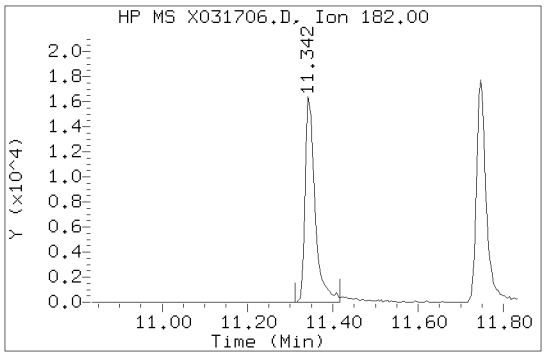
BEFORE

MASS
182
AREA
27031
HEIGHT
16424
30-Mar-2023
12:33
linh
pham



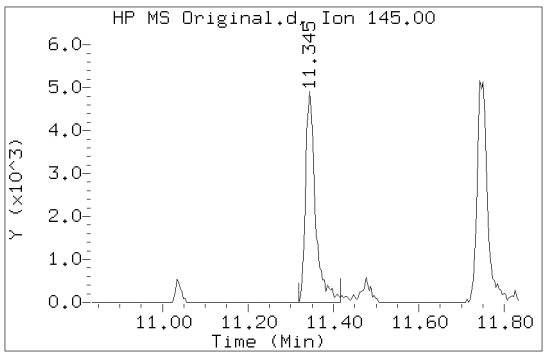
AFTER

MASS
182
AREA
27031
HEIGHT
16424
30-Mar-2023
12:41
linh
pham



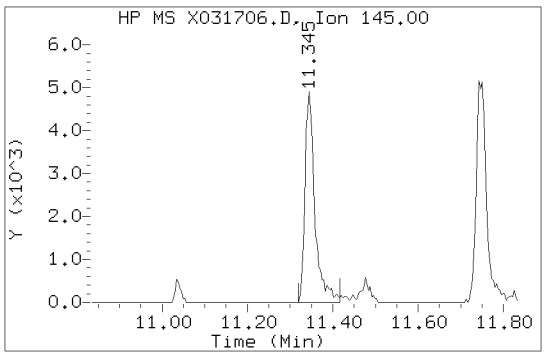
BEFORE

MASS
145
AREA
8041
HEIGHT
4909
30-Mar-2023
12:33
linh
pham



AFTER

MASS
145
AREA
8041
HEIGHT
4909
30-Mar-2023
12:41
linh
pham

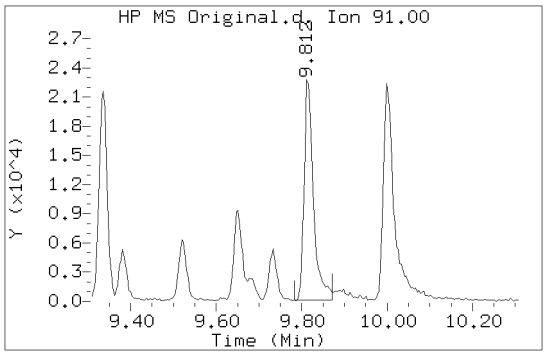


Benzyl Chloride (100-44-7)

Reason Code:

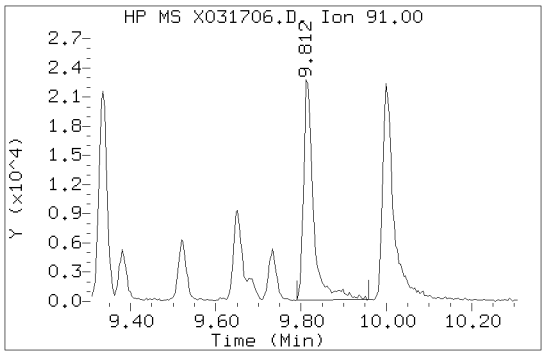
BEFORE

MASS
91
AREA
34993
HEIGHT
22665
30-Mar-2023
12:33
linh
pham



AFTER

MASS
91
AREA
37307
HEIGHT
22649
30-Mar-2023
12:41
linh
pham

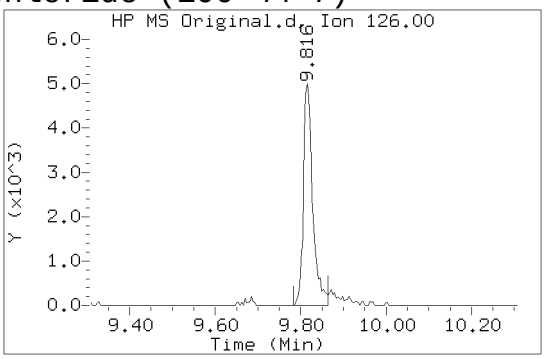


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031706.D
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Benzyl Chloride (100-44-7)

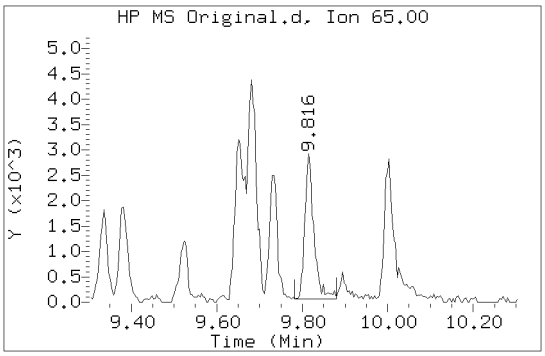
BEFORE

MASS
126
AREA
7737
HEIGHT
5001
30-Mar-2023
12:33
linh
pham



BEFORE

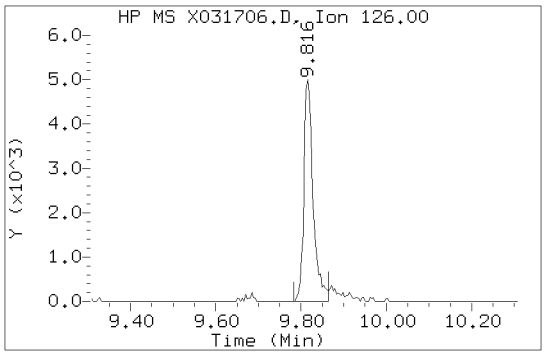
MASS
65
AREA
4286
HEIGHT
2873
30-Mar-2023
12:33
linh
pham



Reason Code:

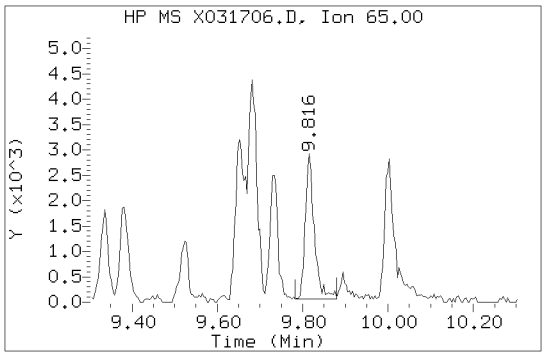
AFTER

MASS
126
AREA
7737
HEIGHT
5001
30-Mar-2023
12:41
linh
pham



AFTER

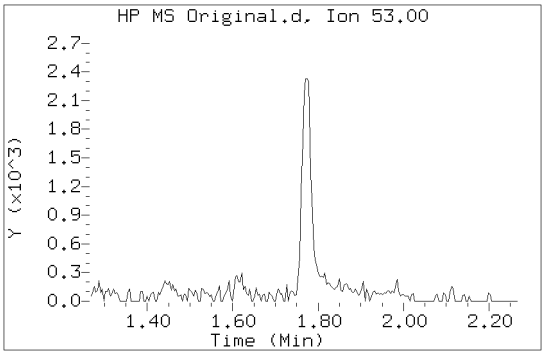
MASS
65
AREA
4286
HEIGHT
2873
30-Mar-2023
12:41
linh
pham



Chloroprene (126-99-8)

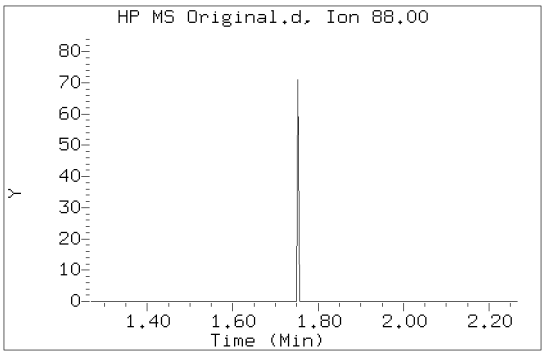
BEFORE

MASS
53
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



BEFORE

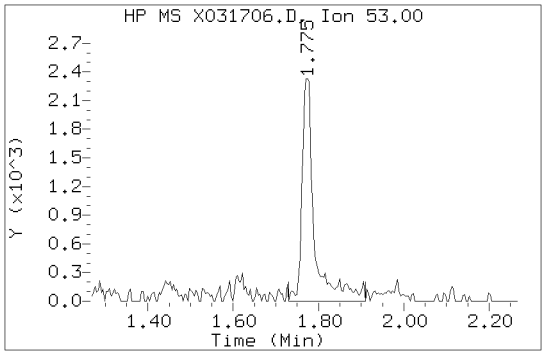
MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

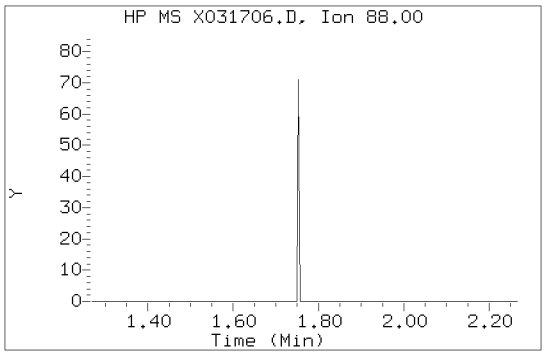
AFTER

MASS
53
AREA
4844
HEIGHT
2327
30-Mar-2023
12:41
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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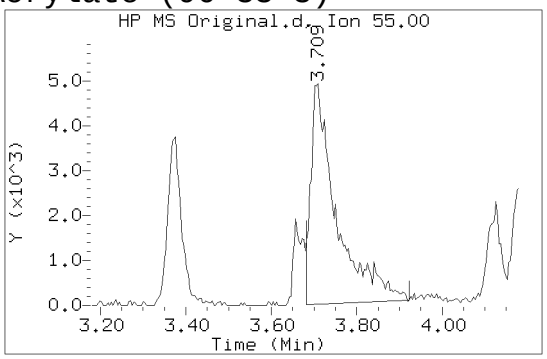
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Methyl Acrylate (96-33-3)

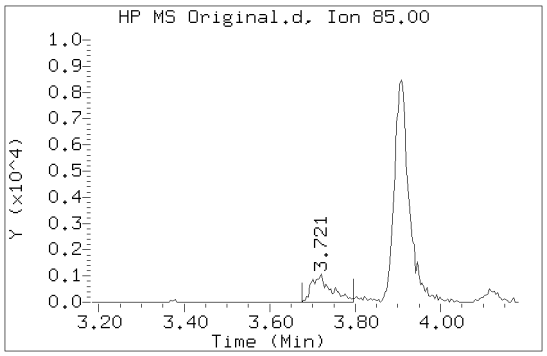
BEFORE

MASS
55
AREA
20445
HEIGHT
4902
30-Mar-2023
12:33
linh
pham



BEFORE

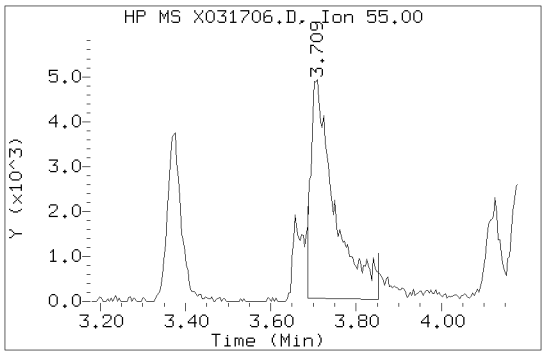
MASS
85
AREA
3334
HEIGHT
1090
30-Mar-2023
12:33
linh
pham



Reason Code:

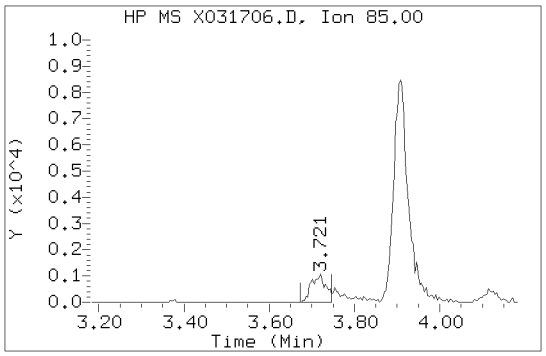
AFTER

MASS
55
AREA
19084
HEIGHT
4863
30-Mar-2023
12:41
linh
pham



AFTER

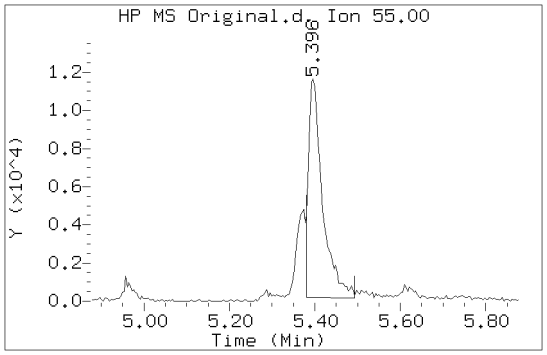
MASS
85
AREA
2528
HEIGHT
1090
30-Mar-2023
12:41
linh
pham



Ethyl Acrylate (140-88-5)

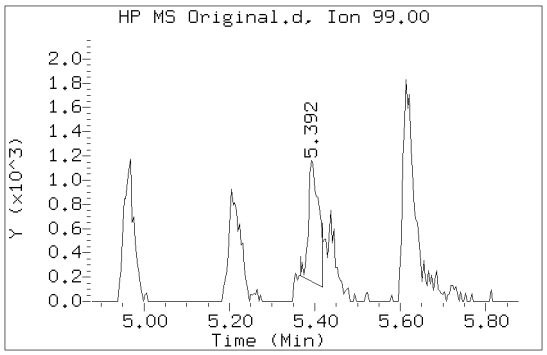
BEFORE

MASS
55
AREA
26481
HEIGHT
11465
30-Mar-2023
12:33
linh
pham



BEFORE

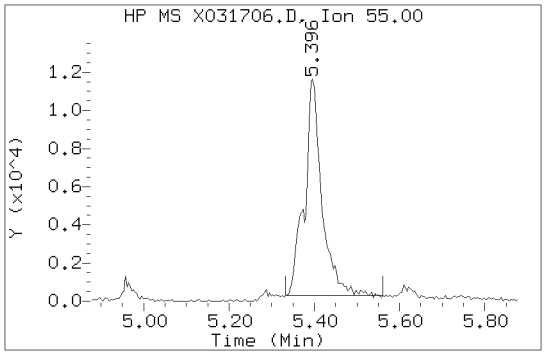
MASS
99
AREA
1678
HEIGHT
997
30-Mar-2023
12:33
linh
pham



Reason Code:

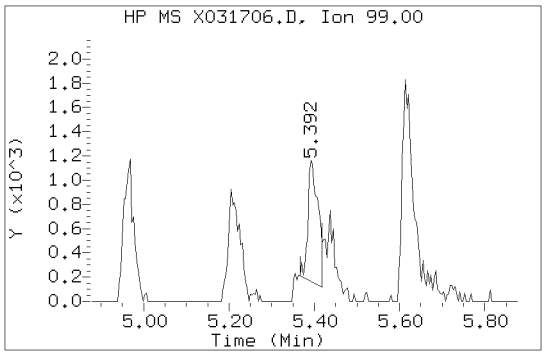
AFTER

MASS
55
AREA
32422
HEIGHT
11347
30-Mar-2023
12:41
linh
pham



AFTER

MASS
99
AREA
1678
HEIGHT
997
30-Mar-2023
12:41
linh
pham



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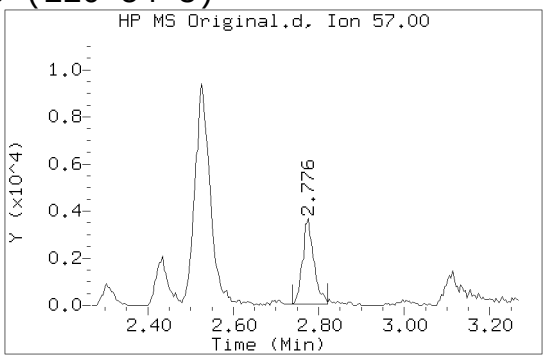
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

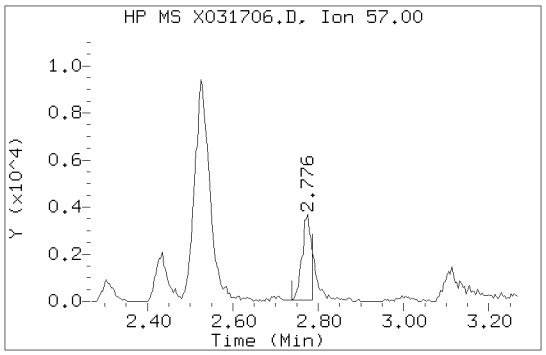
n-Hexane (110-54-3)

Reason Code:

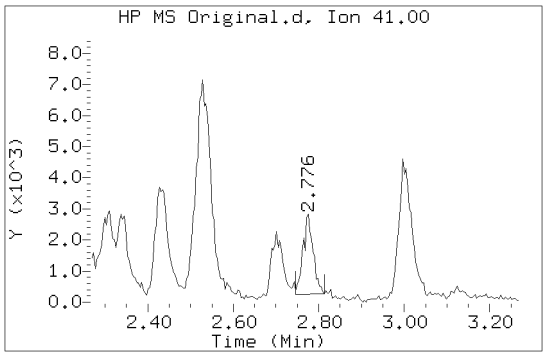
BEFORE
MASS
57
AREA
6747
HEIGHT
3646
30-Mar-2023
12:33
linh
pham



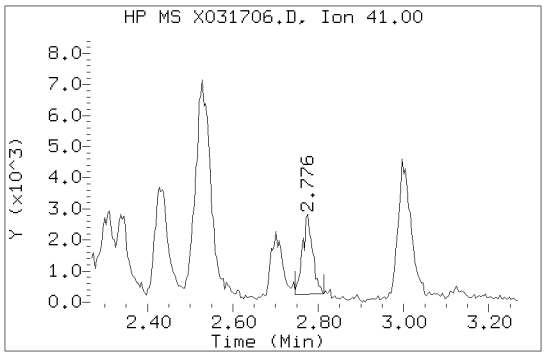
AFTER
MASS
57
AREA
5476
HEIGHT
3646
30-Mar-2023
12:41
linh
pham



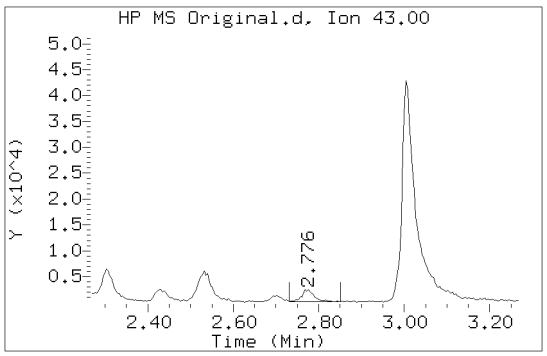
BEFORE
MASS
41
AREA
4280
HEIGHT
2559
30-Mar-2023
12:33
linh
pham



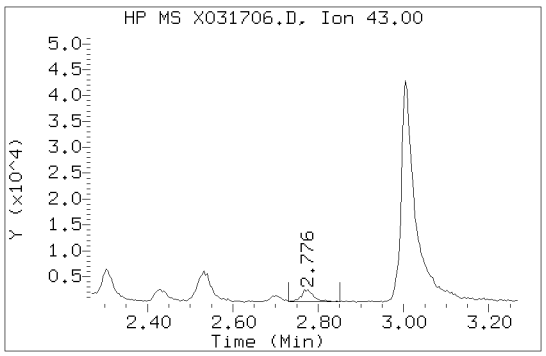
AFTER
MASS
41
AREA
4280
HEIGHT
2559
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
43
AREA
5026
HEIGHT
2432
30-Mar-2023
12:33
linh
pham



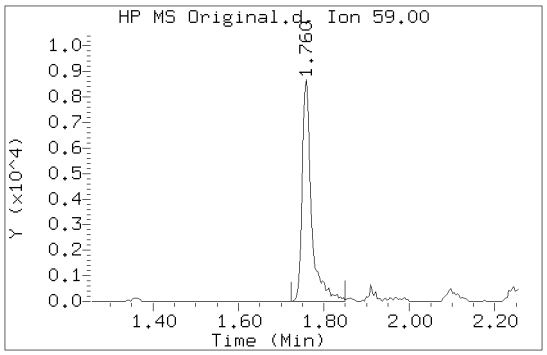
AFTER
MASS
43
AREA
5026
HEIGHT
2432
30-Mar-2023
12:41
linh
pham



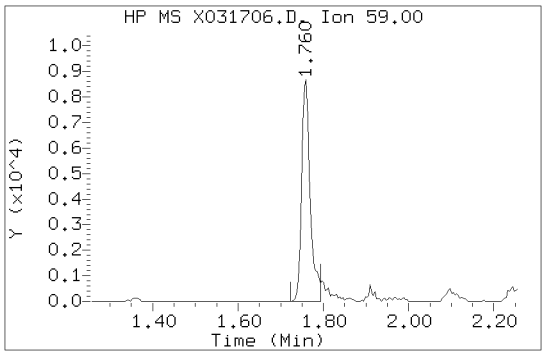
Diethyl ether (60-29-7)

Reason Code:

BEFORE
MASS
59
AREA
13419
HEIGHT
8678
30-Mar-2023
12:33
linh
pham



AFTER
MASS
59
AREA
12349
HEIGHT
8678
30-Mar-2023
12:41
linh
pham



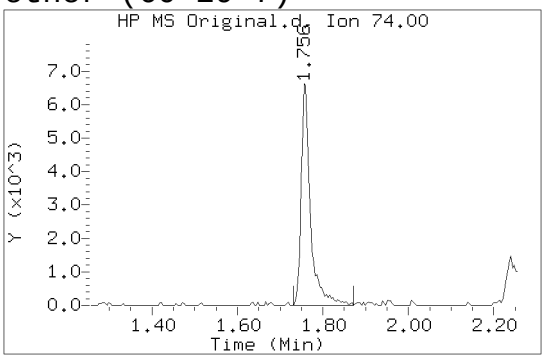
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031706.D
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Diethyl ether (60-29-7)

Reason Code:

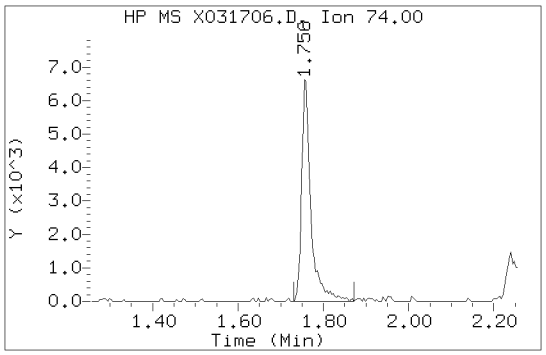
BEFORE

MASS
74
AREA
10195
HEIGHT
6625
30-Mar-2023
12:33
linh
pham



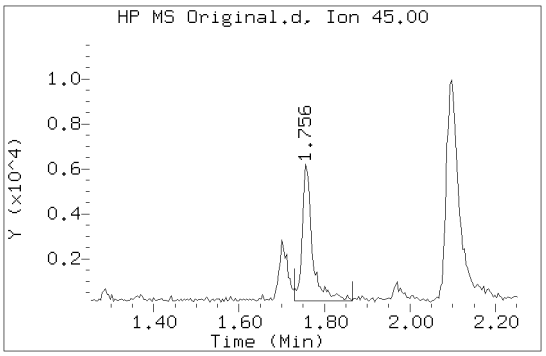
AFTER

MASS
74
AREA
10195
HEIGHT
6625
30-Mar-2023
12:41
linh
pham



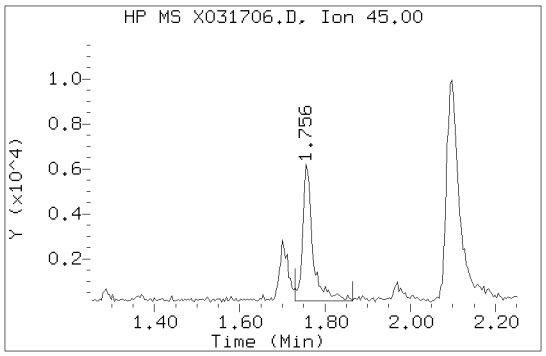
BEFORE

MASS
45
AREA
10306
HEIGHT
6079
30-Mar-2023
12:33
linh
pham



AFTER

MASS
45
AREA
10306
HEIGHT
6079
30-Mar-2023
12:41
linh
pham

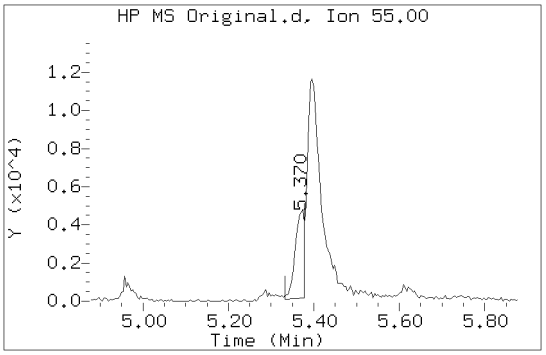


Methylcyclohexane (108-87-2)

Reason Code:

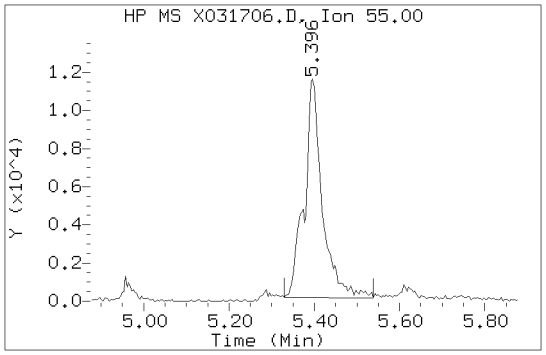
BEFORE

MASS
55
AREA
6879
HEIGHT
4485
30-Mar-2023
12:33
linh
pham



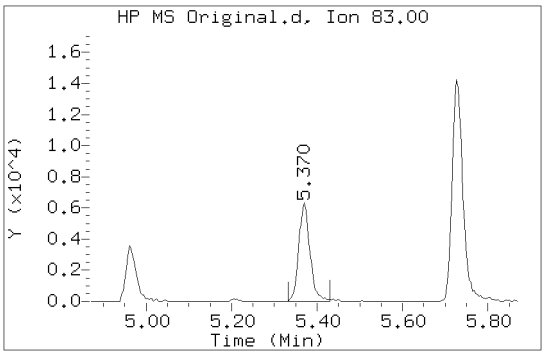
AFTER

MASS
55
AREA
33923
HEIGHT
11464
30-Mar-2023
12:41
linh
pham



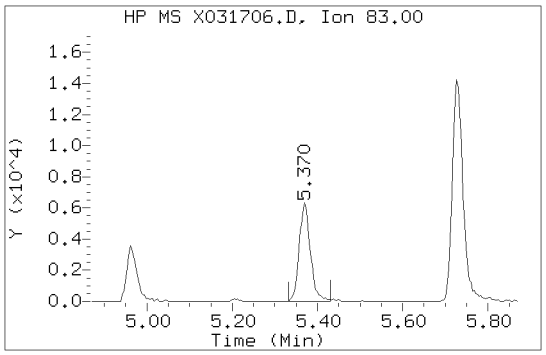
BEFORE

MASS
83
AREA
11711
HEIGHT
6349
30-Mar-2023
12:33
linh
pham



AFTER

MASS
83
AREA
11711
HEIGHT
6349
30-Mar-2023
12:41
linh
pham



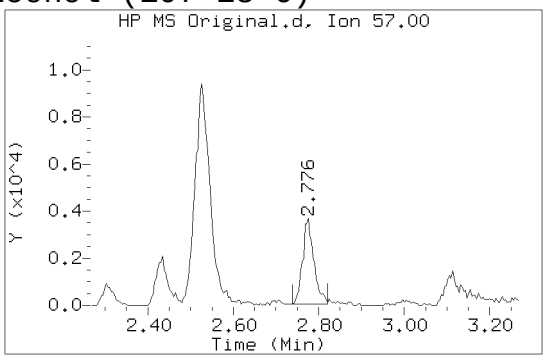
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031706.D
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Allyl alcohol (107-18-6)

Reason Code:

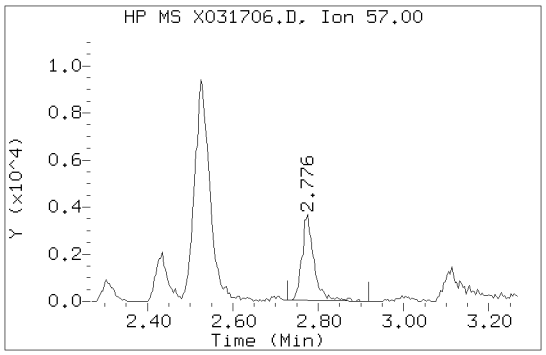
BEFORE

MASS
57
AREA
6747
HEIGHT
3646
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
7188
HEIGHT
3660
30-Mar-2023
12:41
linh
pham

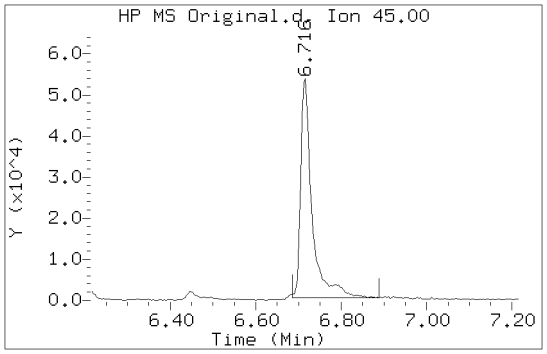


4-Methyl-2-pentanol (108-11-2)

Reason Code:

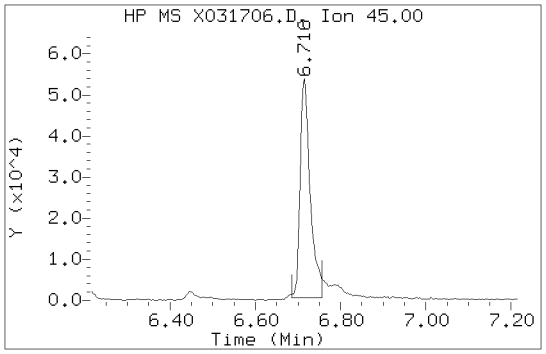
BEFORE

MASS
45
AREA
101213
HEIGHT
53312
30-Mar-2023
12:33
linh
pham



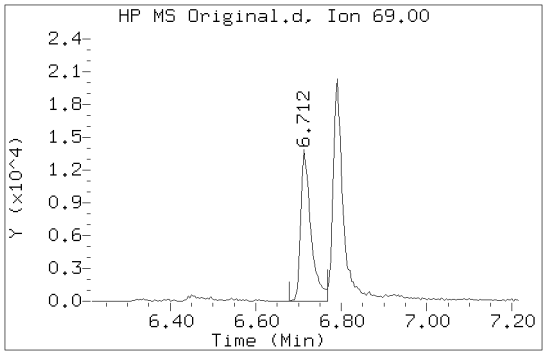
AFTER

MASS
45
AREA
90297
HEIGHT
53312
30-Mar-2023
12:41
linh
pham



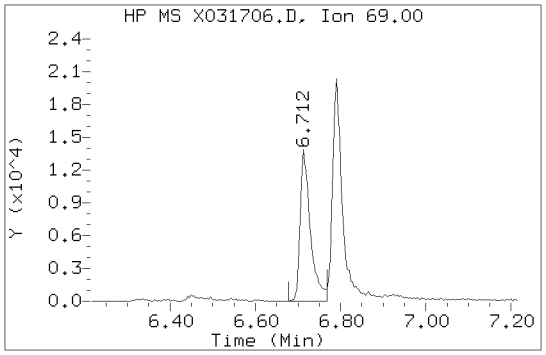
BEFORE

MASS
69
AREA
23861
HEIGHT
13912
30-Mar-2023
12:33
linh
pham



AFTER

MASS
69
AREA
23861
HEIGHT
13912
30-Mar-2023
12:41
linh
pham

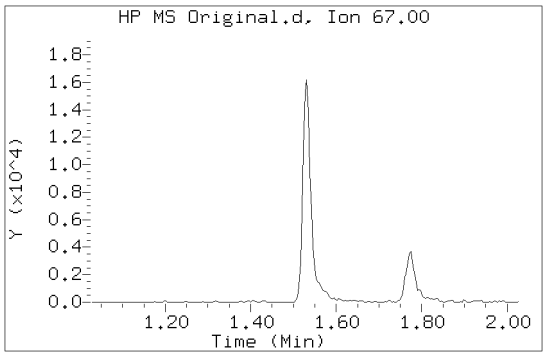


Dichlorofluoromethane (75-43-4)

Reason Code:

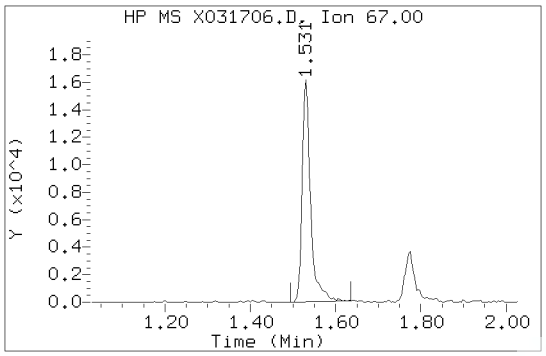
BEFORE

MASS
67
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
67
AREA
22490
HEIGHT
16149
30-Mar-2023
12:41
linh
pham



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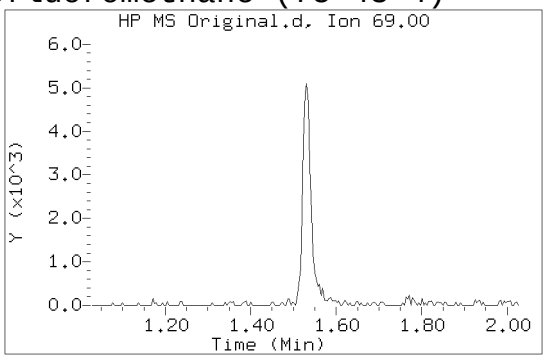
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Dichlorofluoromethane (75-43-4)

Reason Code:

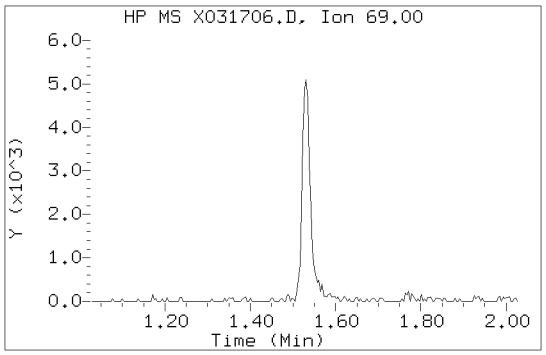
BEFORE

MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



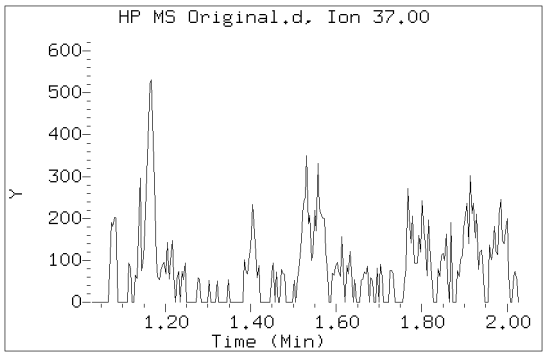
AFTER

MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



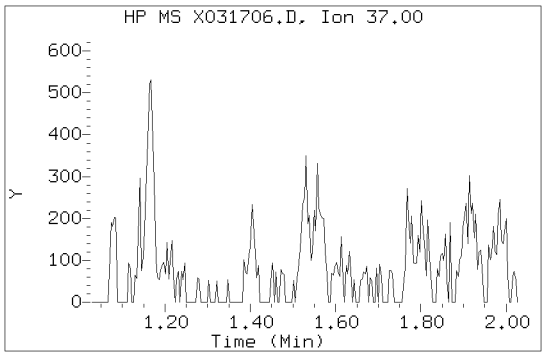
BEFORE

MASS
37
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
37
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

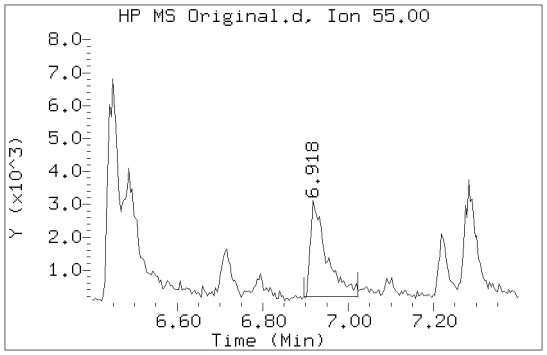


3-Methyl-1-butanol (123-51-3)

Reason Code:

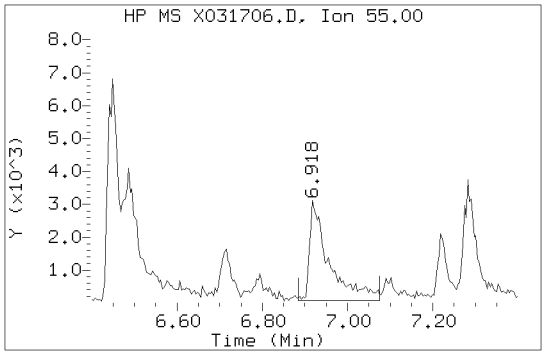
BEFORE

MASS
55
AREA
7748
HEIGHT
2940
30-Mar-2023
12:33
linh
pham



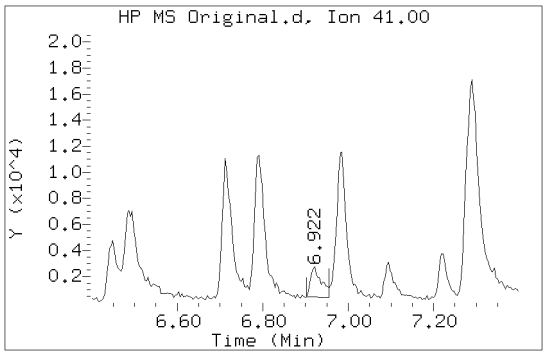
AFTER

MASS
55
AREA
9604
HEIGHT
3048
30-Mar-2023
12:41
linh
pham



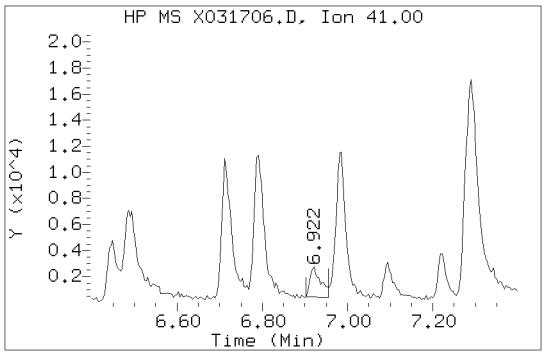
BEFORE

MASS
41
AREA
4154
HEIGHT
2341
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
4154
HEIGHT
2341
30-Mar-2023
12:41
linh
pham



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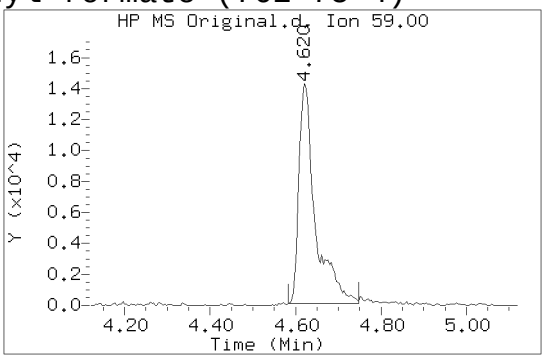
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

tert-Butyl formate (762-75-4)

Reason Code:

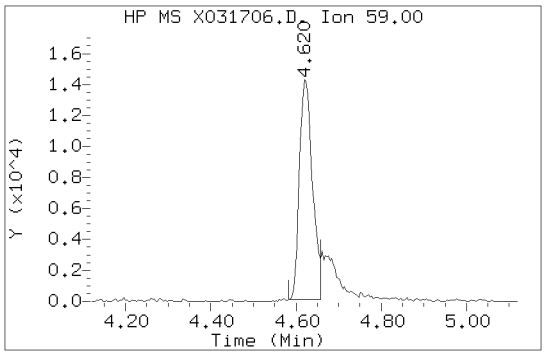
BEFORE

MASS
59
AREA
38602
HEIGHT
14207
30-Mar-2023
12:33
linh
pham



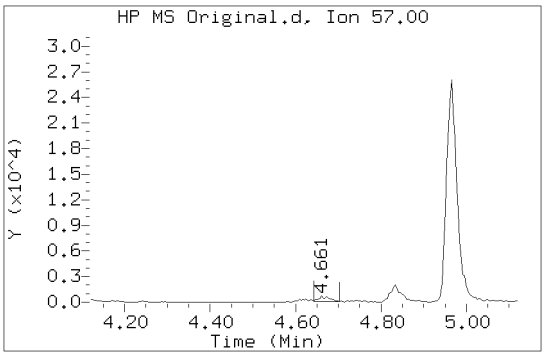
AFTER

MASS
59
AREA
30990
HEIGHT
14207
30-Mar-2023
12:41
linh
pham



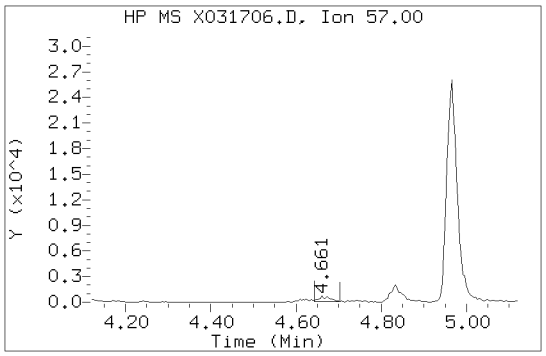
BEFORE

MASS
57
AREA
1147
HEIGHT
668
30-Mar-2023
12:33
linh
pham



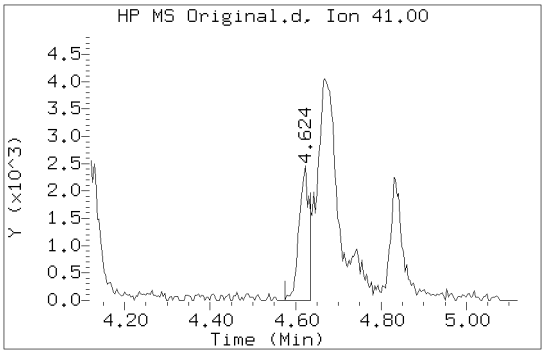
AFTER

MASS
57
AREA
1147
HEIGHT
668
30-Mar-2023
12:41
linh
pham



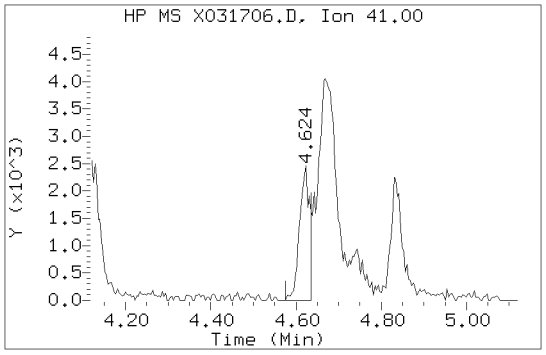
BEFORE

MASS
41
AREA
4108
HEIGHT
2464
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
4108
HEIGHT
2464
30-Mar-2023
12:41
linh
pham

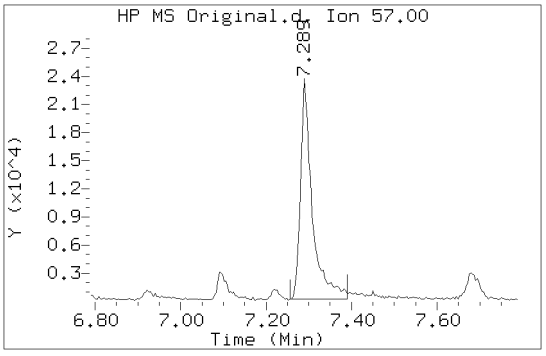


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

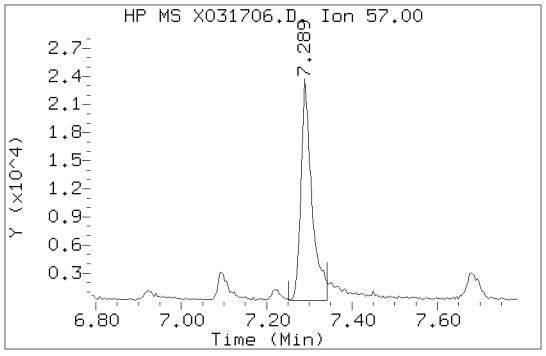
BEFORE

MASS
57
AREA
45819
HEIGHT
23547
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
42905
HEIGHT
23667
30-Mar-2023
12:41
linh
pham



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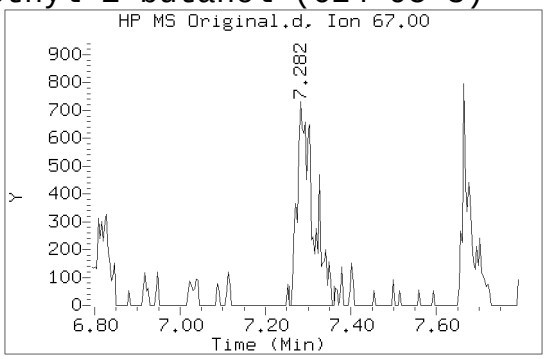
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

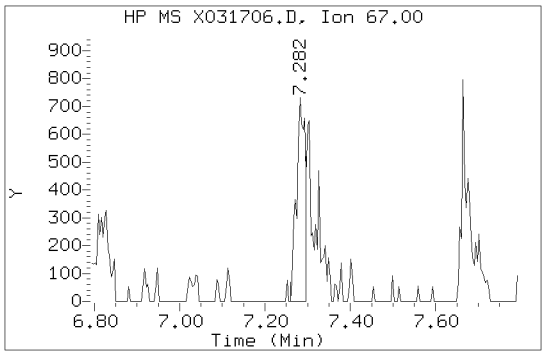
BEFORE

MASS
67
AREA
1918
HEIGHT
732
30-Mar-2023
12:33
linh
pham



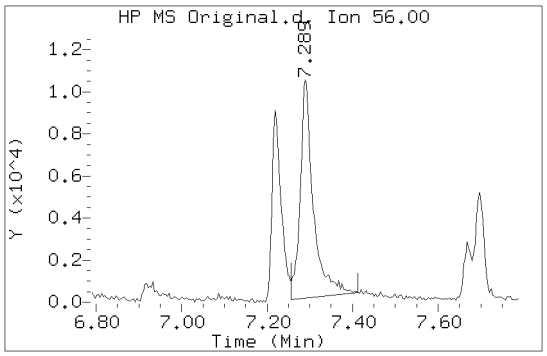
AFTER

MASS
67
AREA
1055
HEIGHT
732
30-Mar-2023
12:41
linh
pham



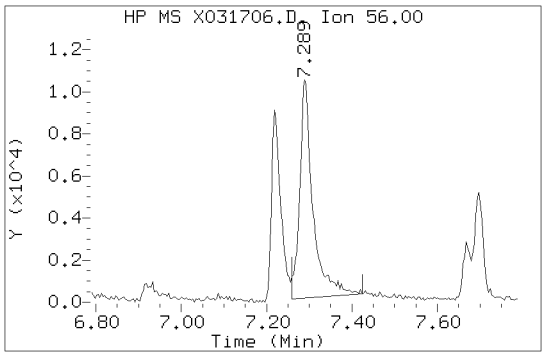
BEFORE

MASS
56
AREA
22740
HEIGHT
10376
30-Mar-2023
12:33
linh
pham



AFTER

MASS
56
AREA
22816
HEIGHT
10362
30-Mar-2023
12:41
linh
pham

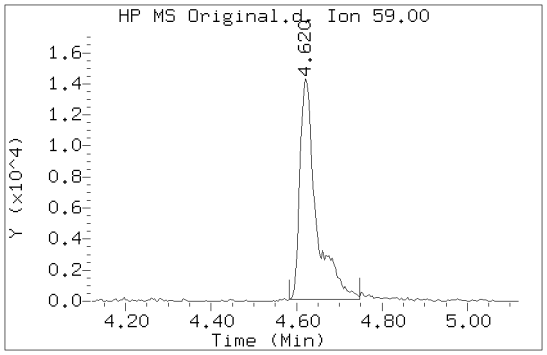


tert-Amyl alcohol (75-85-4)

Reason Code:

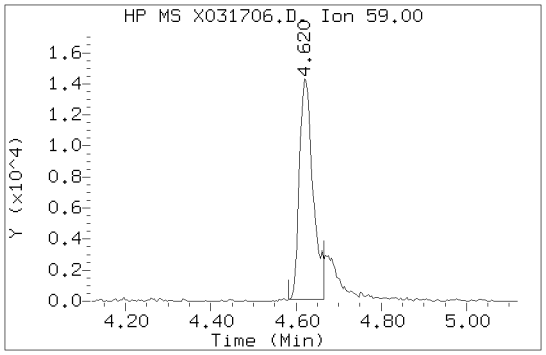
BEFORE

MASS
59
AREA
38602
HEIGHT
14207
30-Mar-2023
12:33
linh
pham



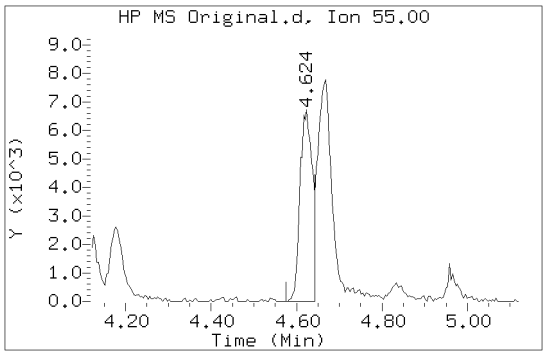
AFTER

MASS
59
AREA
32276
HEIGHT
14207
30-Mar-2023
12:41
linh
pham



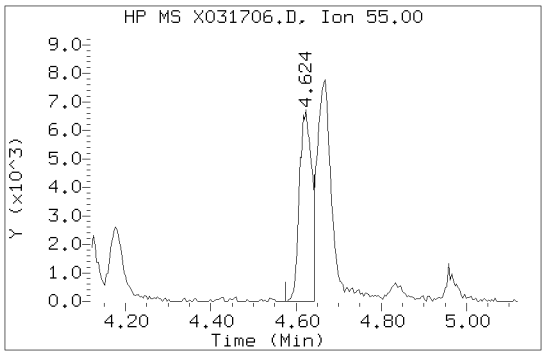
BEFORE

MASS
55
AREA
13691
HEIGHT
6713
30-Mar-2023
12:33
linh
pham



AFTER

MASS
55
AREA
13691
HEIGHT
6713
30-Mar-2023
12:41
linh
pham



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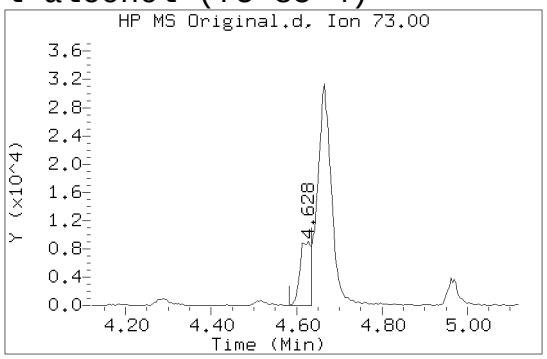
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

tert-Amyl alcohol (75-85-4)

Reason Code:

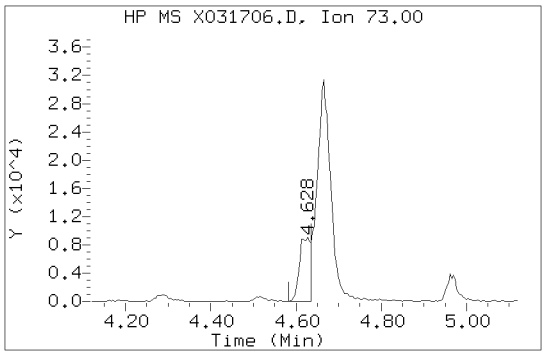
BEFORE

MASS
73
AREA
16815
HEIGHT
9032
30-Mar-2023
12:33
linh
pham



AFTER

MASS
73
AREA
16815
HEIGHT
9032
30-Mar-2023
12:41
linh
pham

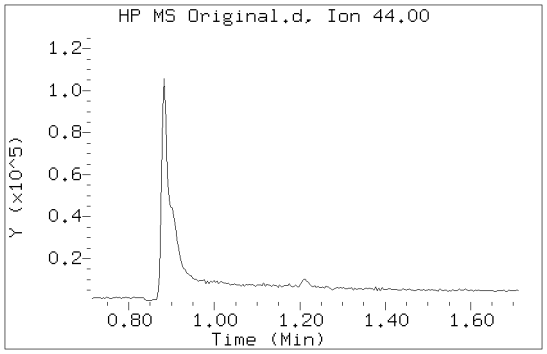


Acetaldehyde (75-07-0)

Reason Code:

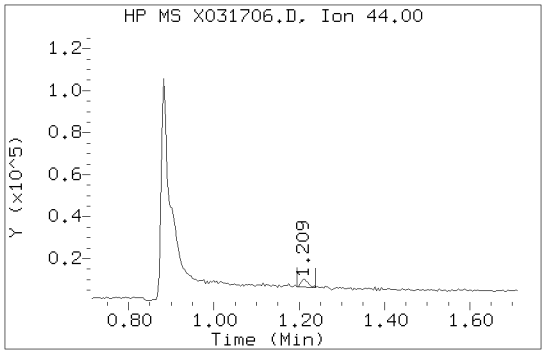
BEFORE

MASS
44
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



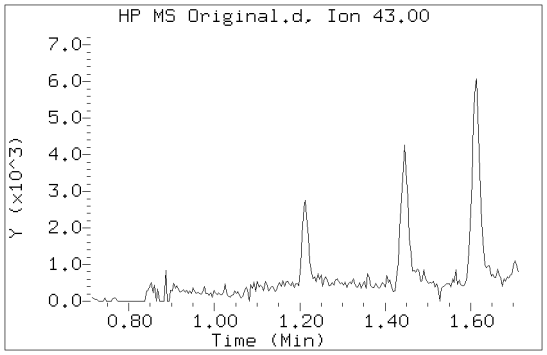
AFTER

MASS
44
AREA
4487
HEIGHT
3800
30-Mar-2023
12:41
linh
pham



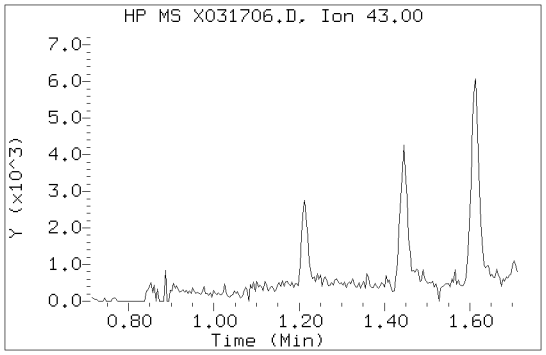
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



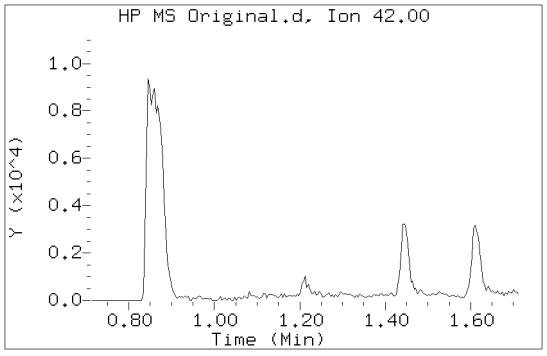
AFTER

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



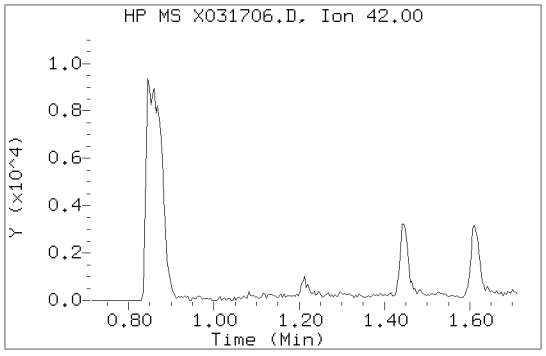
BEFORE

MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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LabSampID : VSTD005

Isobutylene (115-11-7)

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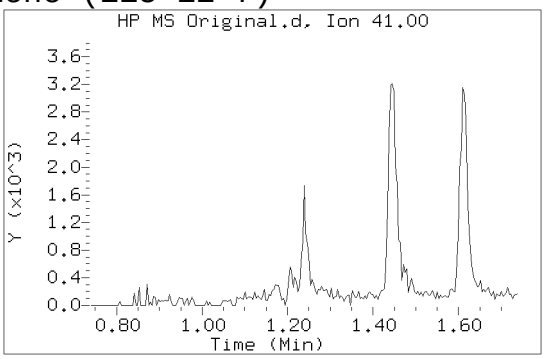

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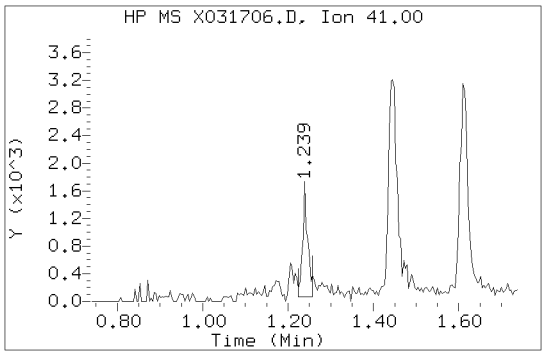

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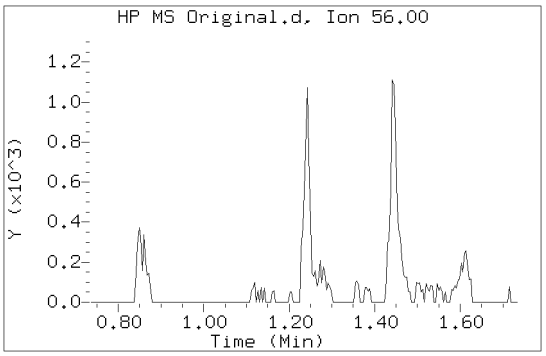

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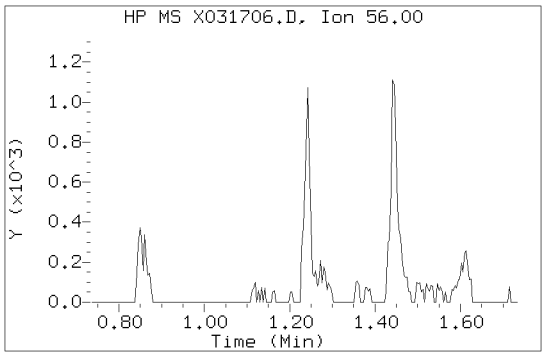

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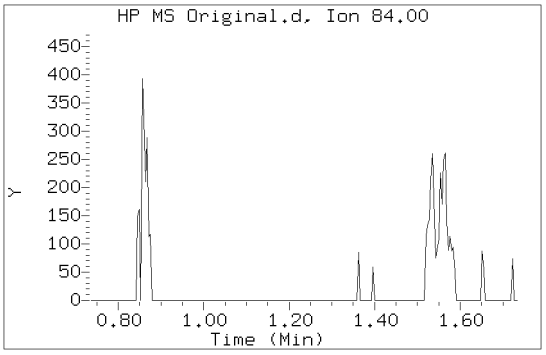

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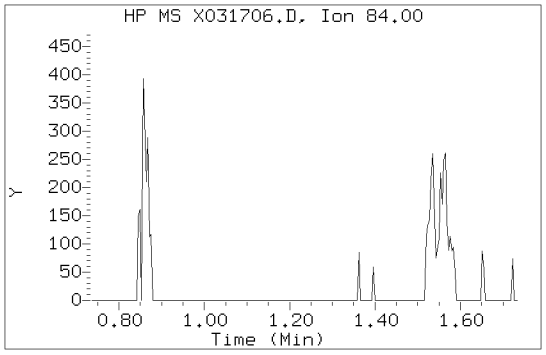

2-Ethylhexyl Acrylate (103-11-7)

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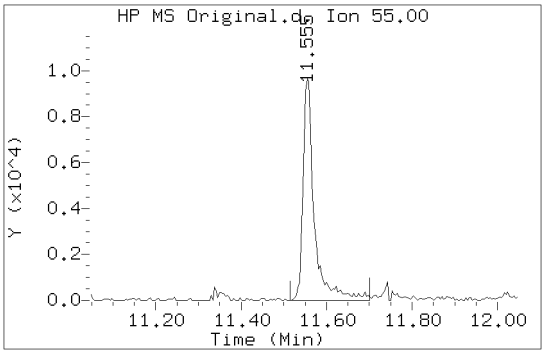

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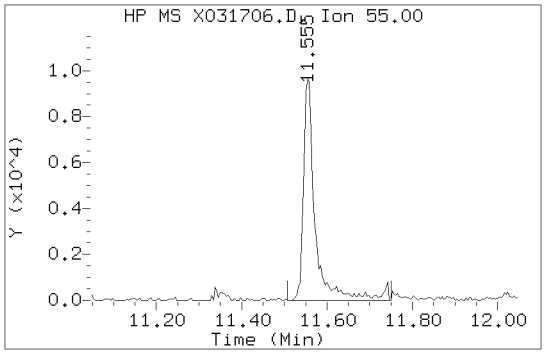

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Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE

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30-Mar-2023
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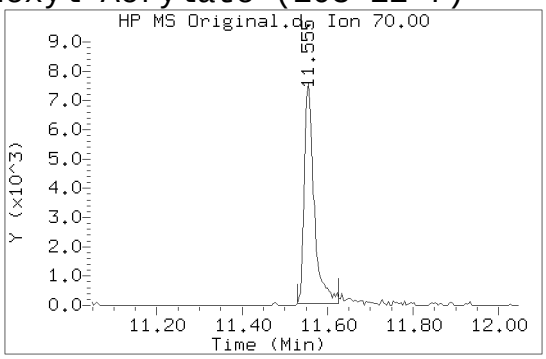

AFTER

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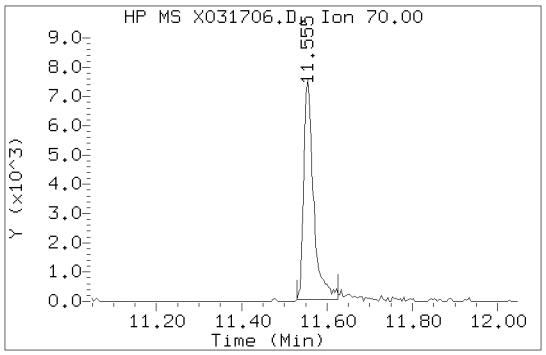

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Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031707.D
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Inj Date : 17-MAR-2023 13:35
Operator : PC Inst ID: voa6.i
Smp Info : VSTD020;VSTD020;1;6;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:14 Cal File: X031706.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.178	4.178	(1.000)	375428	50.0000	
	2 Dichlorodifluoromethane	85	0.973	0.973	(0.233)	49131	20.0000	19.95
	3 Chloromethane	50	1.078	1.078	(0.258)	63768	20.0000	18.46
	4 Propionitrile	54	3.649	3.649	(0.873)	99704	200.000	188.48(a)
	5 Vinyl Chloride	62	1.141	1.141	(0.273)	56297	20.0000	19.03
	6 Bromomethane	94	1.340	1.340	(0.321)	33661	20.0000	19.79
	7 Chloroethane	64	1.404	1.404	(0.336)	41116	20.0000	19.60
	8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	68499	20.0000	19.52
	9 Acrolein	56	1.445	1.445	(0.346)	7235	40.0000	35.97
	10 Acetone	43	1.973	1.973	(0.472)	45236	40.0000	43.23
	11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	44176	20.0000	19.59
	12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	207920	400.000	405.92(a)
	13 Acetonitrile	39	2.198	2.198	(0.526)	66904	200.000	191.47(a)
	14 Allyl Chloride	41	2.198	2.198	(0.526)	159235	20.0000	18.42(a)
	15 Iodomethane	142	2.026	2.026	(0.485)	49371	40.0000	26.86
	16 Acrylonitrile	53	2.539	2.539	(0.608)	50065	40.0000	39.96
	17 Methylene Chloride	84	2.303	2.303	(0.551)	76634	20.0000	19.87
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	221063	20.0000	18.62
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	303028	40.0000	36.58
	20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	60493	20.0000	19.02

21 Vinyl Acetate	43	2.997	2.997 (0.717)	390224	40.0000	40.72
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	111381	20.0000	19.34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.771	1.771	(0.424)	18279	20.0000	17.75(M)
	24 2-Butanone	43	3.578	3.578	(0.856)	53809	40.0000	40.02
	25 Methacrylonitrile	41	3.822	3.822	(0.915)	67445	20.0000	19.49(a)
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	89332	20.0000	19.53
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	73434	20.0000	19.08
	28 Chloroform	83	3.904	3.904	(0.935)	119690	20.0000	18.72
	29 Bromochloromethane	128	3.795	3.795	(0.908)	40882	20.0000	18.77
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	75605	20.0000	21.17
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	90992	20.0000	19.03
	32 1,1-Dichloropropene	75	4.283	4.283	(0.863)	78416	20.0000	18.31
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	94228	20.0000	18.89
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	71340	20.0000	17.40
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.071)	83385	20.0000	21.21
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	600016	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	278054	20.0000	18.84
	38 Trichloroethene	130	5.205	5.205	(1.048)	74100	20.0000	18.64
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	99412	20.0000	18.98
	40 Methyl Methacrylate	41	5.606	5.606	(1.342)	66160	20.0000	19.76(a)
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	62485	40.0000	39.24
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	74812	20.0000	18.81
	43 2-Nitropropane	43	5.969	5.969	(1.429)	21089	20.0000	17.89(H)
	44 Dibromomethane	93	5.553	5.553	(1.119)	49506	20.0000	19.52
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	145503	40.0000	40.14
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	126298	20.0000	19.09
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	572818	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	275369	20.0000	19.39
	49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	86679	20.0000	19.62(a)
	50 Toluene	91	6.446	6.446	(0.841)	287831	20.0000	19.15
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	106247	20.0000	19.34
	52 2-Hexanone	43	7.087	7.087	(0.924)	101401	40.0000	40.76
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	62132	20.0000	19.01
	54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	128223	20.0000	19.74
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	85705	20.0000	18.56
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	54179	20.0000	17.98
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	79749	20.0000	19.74
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	49375	20.0000	18.70
	59 Chlorobenzene	112	7.694	7.694	(1.003)	205948	20.0000	19.17
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	78087	20.0000	18.86
	61 Ethylbenzene	106	7.799	7.799	(1.017)	97589	20.0000	18.46
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	248277	40.0000	37.32
	63 o-Xylene	106	8.241	8.241	(1.075)	124636	20.0000	18.64
	64 Styrene	104	8.260	8.260	(1.077)	220767	20.0000	19.98
	66 Bromoform	173	8.410	8.410	(1.097)	61739	20.0000	19.34
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	272726	20.0000	17.81
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	106192	20.0000	18.99
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	111601	20.0000	20.47
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	320882	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	79380	20.0000	18.89
	72 trans-1,4-Dichloro-2-butene	53	8.890	8.890	(1.159)	23270	20.0000	18.58(a)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	317920	20.0000	17.82
	74 Bromobenzene	156	8.803	8.803	(0.911)	95802	20.0000	18.57
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	249669	20.0000	18.04

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	225352	20.0000	18.79
77	4-Chlorotoluene	91	9.070	9.070 (0.939)	259727	20.0000	19.21

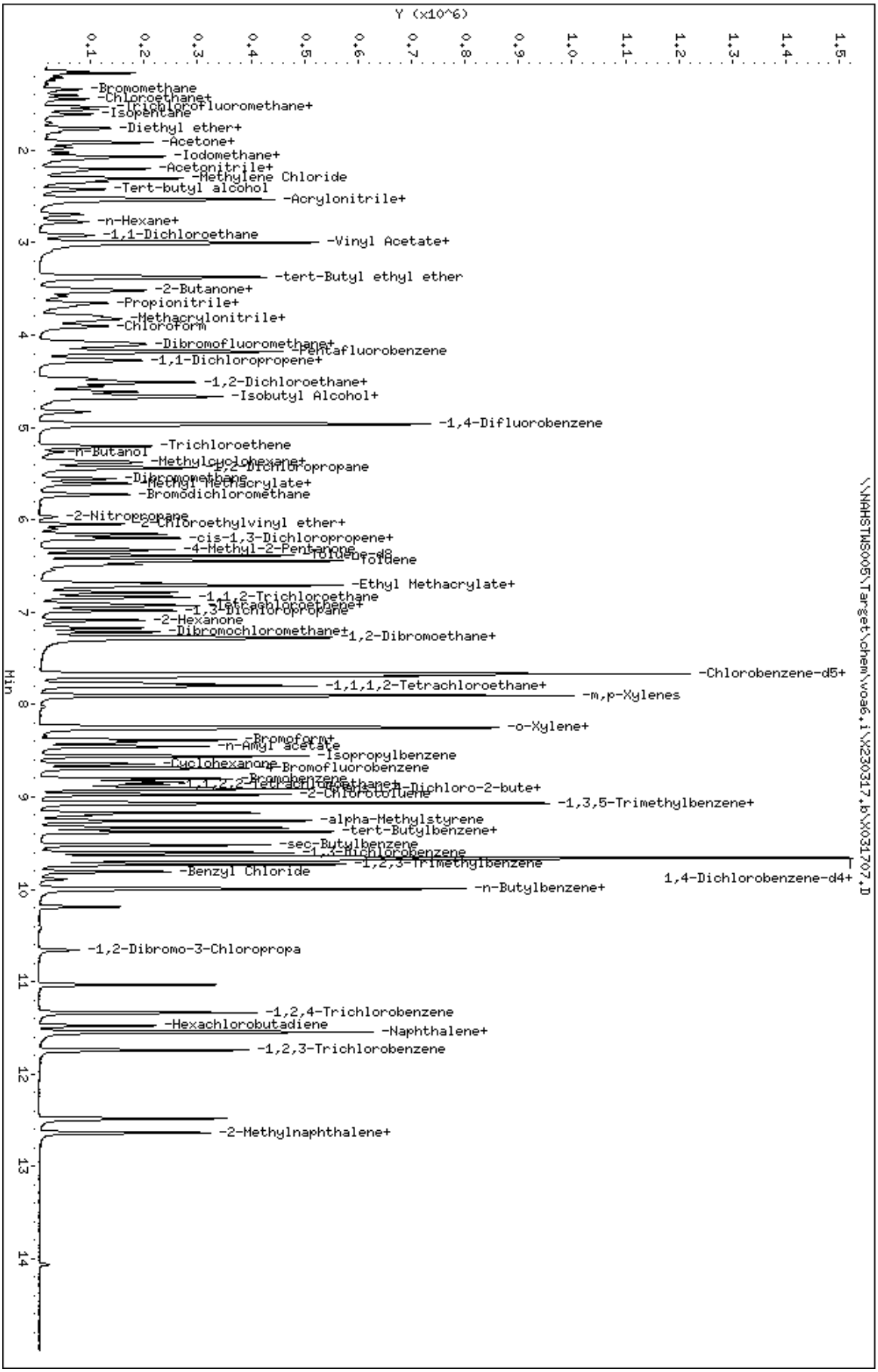
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	191973	20.0000	17.42
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	261695	20.0000	18.44
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	246714	20.0000	16.52
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	232500	20.0000	17.44
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	167600	20.0000	18.78
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	178193	20.0000	18.58
86	Benzyl Chloride	91	9.808	9.808	(1.279)	154893	20.0000	18.08
87	n-Butylbenzene	91	9.996	9.996	(1.035)	188468	20.0000	17.54
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	173370	20.0000	19.42
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	18853	20.0000	19.24
90	1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	121468	20.0000	18.61
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	38257	20.0000	16.84
92	Naphthalene	128	11.544	11.544	(1.195)	309246	20.0000	19.74
93	1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	117523	20.0000	18.82
146	Methyl acetate	43	2.236	2.236	(0.535)	43834	20.0000	20.31
138	Freon TF	101	1.910	1.910	(0.457)	37539	20.0000	19.24
141	Cyclohexane	56	4.121	4.121	(0.987)	64931	20.0000	17.77(M)
142	Tetrahydrofuran	42	3.844	3.844	(0.920)	24653	40.0000	40.21
147	Methylcyclohexane	55	5.385	5.385	(1.085)	148550	20.0000	17.93
135	1,4-Dioxane	88	5.598	5.598	(1.340)	18580	400.000	372.97
132	n-Butanol	56	5.257	5.257	(1.258)	30431	400.000	335.18(a)
131	Methyl Acrylate	55	3.690	3.690	(0.883)	75084	20.0000	19.31
133	Ethyl Acrylate	55	5.385	5.385	(1.289)	149160	20.0000	18.20
136	n-Hexane	57	2.768	2.768	(0.663)	45980	20.0000	20.23
139	Diethyl ether	59	1.756	1.756	(0.420)	49501	20.0000	19.67
148	Tert-butyl alcohol	59	2.423	2.423	(0.580)	150054	400.000	381.66
149	Isopropyl alcohol	45	2.093	2.093	(0.501)	80057	400.000	381.06
156	Diisopropyl ether	45	2.997	2.997	(0.717)	221046	20.0000	18.96
160	2-Methylnaphthalene	142	12.635	12.635	(1.308)	148176	20.0000	19.14
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	269949	20.0000	17.54
167	Ethanol	45	1.704	1.704	(0.408)	14003	400.000	415.88
172	tert-Butyl formate	59	4.616	4.616	(1.105)	117591	40.0000	38.44
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	168566	400.000	381.89
174	tert-Amyl methyl ether	73	4.661	4.661	(1.116)	251060	20.0000	18.68
175	tert-Butyl ethyl ether	59	3.372	3.372	(0.807)	231660	20.0000	18.97
176	tert-Amyl alcohol	59	4.616	4.616	(1.105)	117591	400.000	366.00
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	348435	400.000	397.85(M)
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	148176	20.0000	(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	48007	20.0000	18.85
152	Amyl alcohol	42	6.907	6.907	(0.901)	38119	400.000	369.23(M)
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	88715	20.0000	19.07
159	Propylene oxide	43	1.805	1.805	(0.432)	9637	40.0000	41.14(M)
161	3-Methyl-1-butanol	55	6.907	6.907	(0.901)	39040	400.000	390.51(M)
162	Butyl acrylate	55	8.252	8.252	(1.076)	161426	20.0000	19.09
182	Epichlorohydrin	57	6.097	6.097	(1.228)	24930	80.0000	72.83
M 94	1,2-Dichloroethylene (total)	96				133927	40.0000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	131083	20.0000	18.73
130	Ethyl Acetate	43	3.653	3.653	(0.874)	82432	20.0000	21.25
134	Cyclohexanone	55	8.642	8.642	(0.894)	74641	400.000	391.66(a)
185	Isoprene	39	1.771	1.771	(0.424)	13485	20.0000	18.72
188	Isopropyl acetate	43	4.672	4.672	(0.941)	209284	20.0000	19.26
187	n-Amyl acetate	43	8.455	8.455	(1.103)	141740	20.0000	19.92

189 n-Butyl acetate	43	7.214	7.214 (0.941)	122667	20.0000	20.22(H)
150 Allyl alcohol	57	2.768	2.768 (0.663)	45980	400.000	404.62

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.212	1.212	(0.290)	14072	80.0000	62.26(M)
195 Methyl Amyl Ketone	43	8.384	8.384	(1.093)	179784	20.0000	19.86
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	141726	20.0000	18.89
202 Isobutylene	41	1.242	1.242	(0.297)	6364	20.0000	20.39(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	84839	20.0000	17.90

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Date : 17-MAR-2023 13:35
Client ID: WSTD020
Sample Info: WSTD020;WSTD020;1;6;
Purge Volume: 5.0
Column phase: DB624

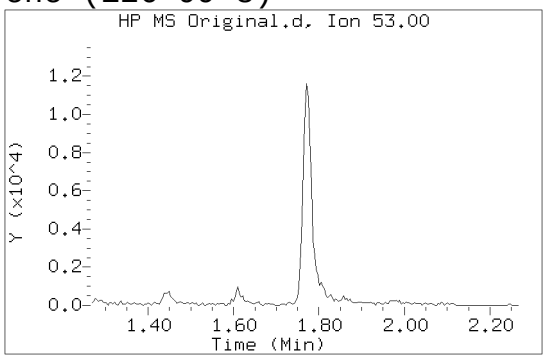
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031707.D
Inj Date : 17-MAR-2023 13:35
InstruID : voa6.i
LabSampID : VSTD020

Chloroprene (126-99-8)

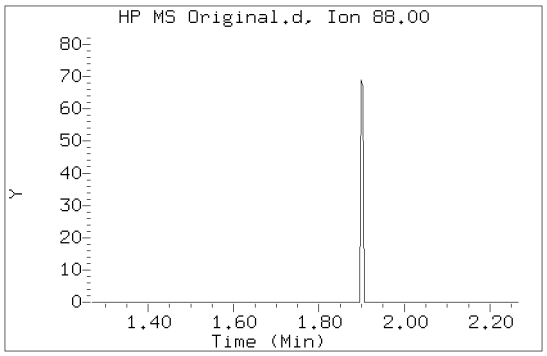
BEFORE

MASS
53
AREA
0
HEIGHT
0
30-Mar-2023
12:34
linh
pham



BEFORE

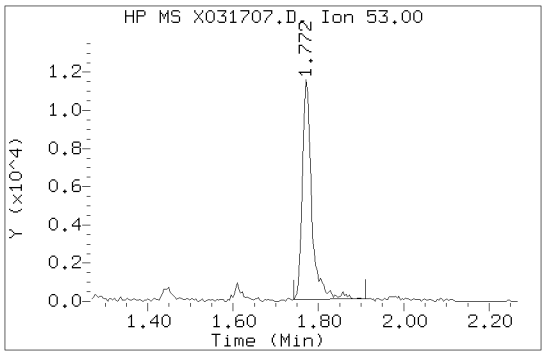
MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:34
linh
pham



Reason Code:

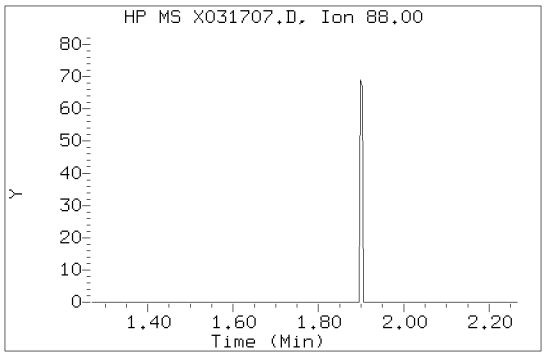
AFTER

MASS
53
AREA
18279
HEIGHT
11505
30-Mar-2023
12:41
linh
pham



AFTER

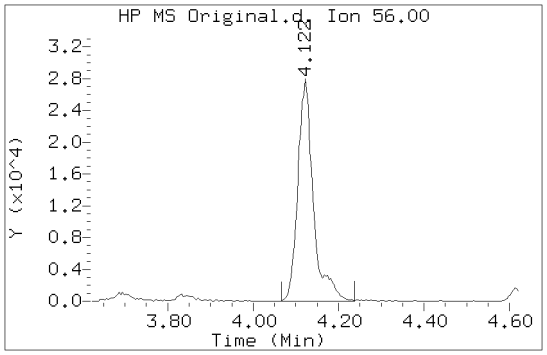
MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



Cyclohexane (110-82-7)

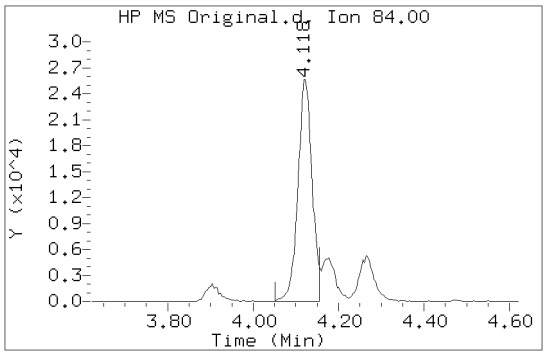
BEFORE

MASS
56
AREA
71612
HEIGHT
27960
30-Mar-2023
12:34
linh
pham



BEFORE

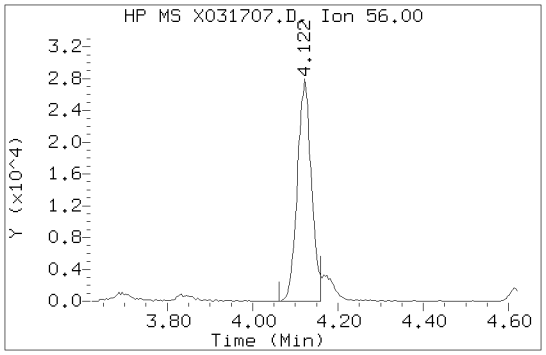
MASS
84
AREA
60230
HEIGHT
25632
30-Mar-2023
12:34
linh
pham



Reason Code:

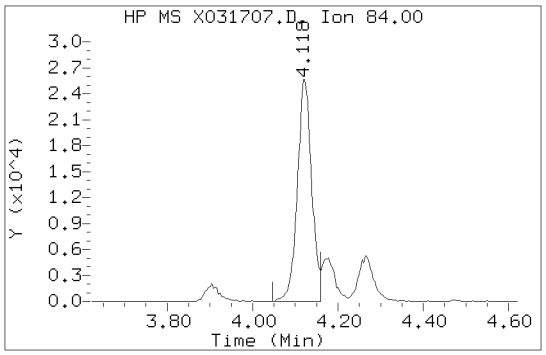
AFTER

MASS
56
AREA
64931
HEIGHT
27960
30-Mar-2023
12:41
linh
pham



AFTER

MASS
84
AREA
61016
HEIGHT
25632
30-Mar-2023
12:41
linh
pham



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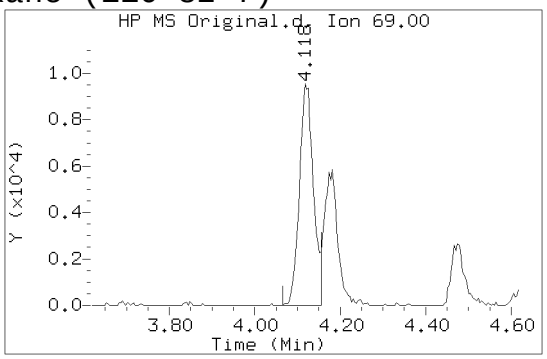
Inj Date : 17-MAR-2023 13:35
InstruID : voa6.i
LabSampID : VSTD020

Cyclohexane (110-82-7)

Reason Code:

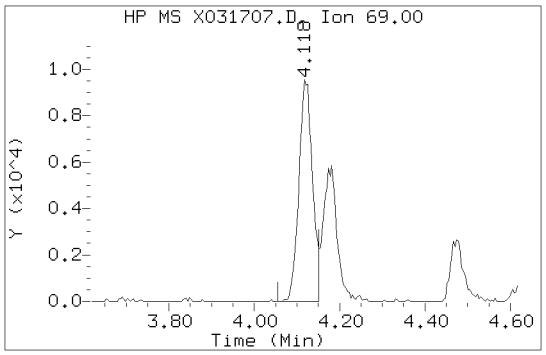
BEFORE

MASS
69
AREA
22197
HEIGHT
9550
30-Mar-2023
12:34
linh
pham



AFTER

MASS
69
AREA
21678
HEIGHT
9550
30-Mar-2023
12:41
linh
pham

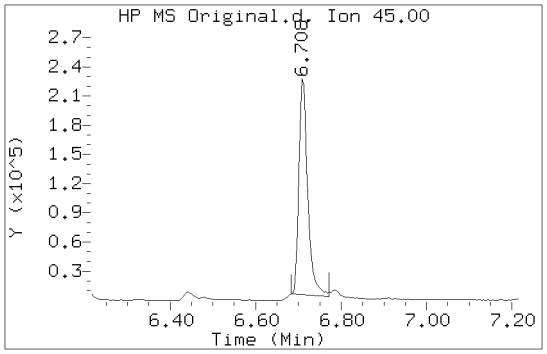


4-Methyl-2-pentanol (108-11-2)

Reason Code:

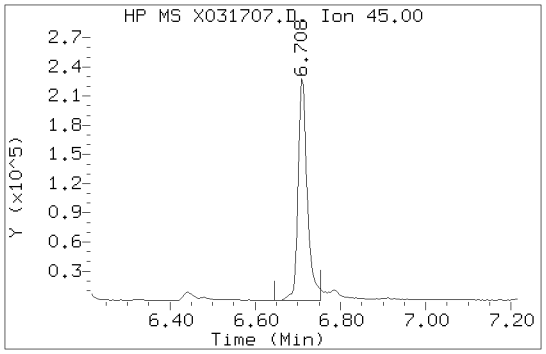
BEFORE

MASS
45
AREA
326524
HEIGHT
222018
30-Mar-2023
12:34
linh
pham



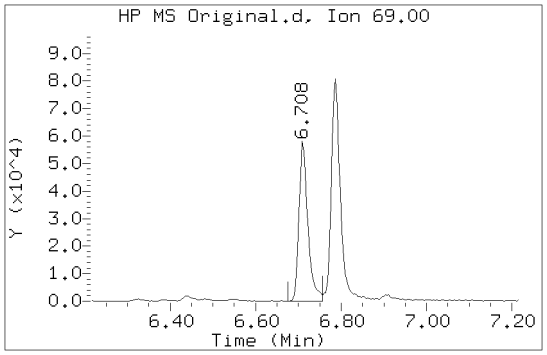
AFTER

MASS
45
AREA
348435
HEIGHT
227551
30-Mar-2023
12:41
linh
pham



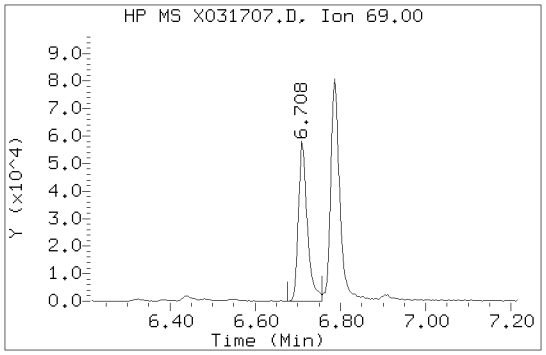
BEFORE

MASS
69
AREA
86007
HEIGHT
57983
30-Mar-2023
12:34
linh
pham



AFTER

MASS
69
AREA
86007
HEIGHT
57983
30-Mar-2023
12:41
linh
pham

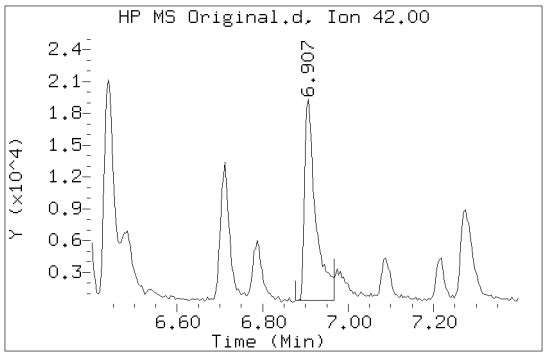


Amyl alcohol (71-41-0)

Reason Code:

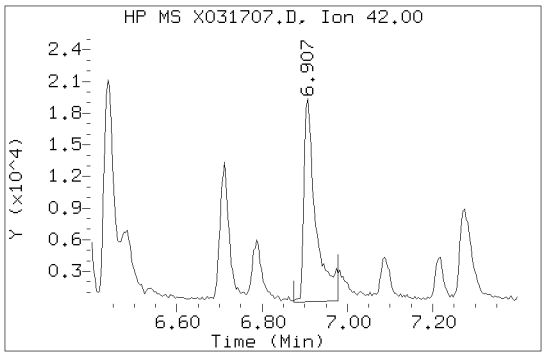
BEFORE

MASS
42
AREA
35080
HEIGHT
19028
30-Mar-2023
12:34
linh
pham



AFTER

MASS
42
AREA
38119
HEIGHT
19252
30-Mar-2023
12:41
linh
pham

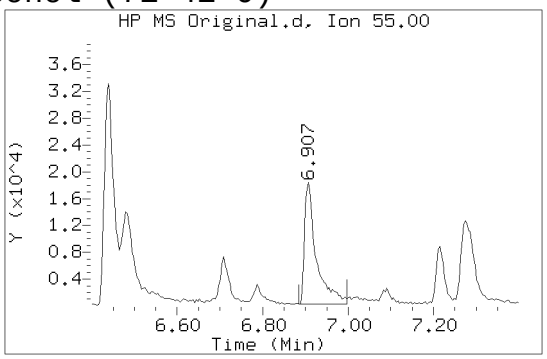


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031707.D
Inj Date : 17-MAR-2023 13:35
InstruID : voa6.i
LabSampID : VSTD020

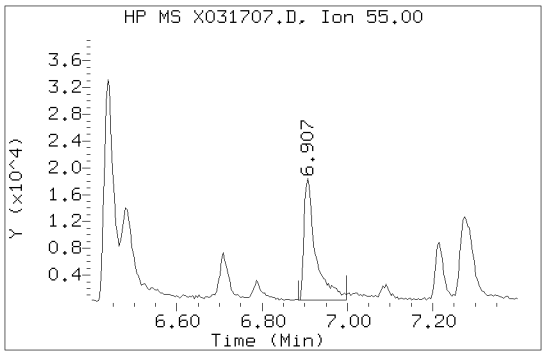
Amyl alcohol (71-41-0)

Reason Code:

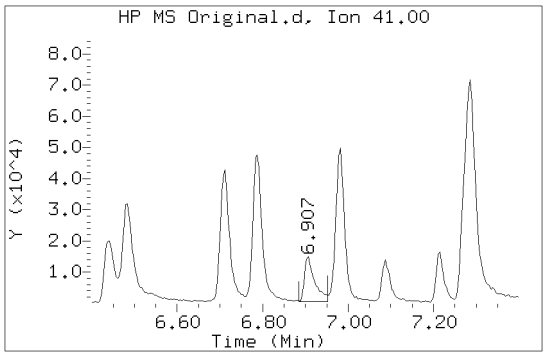
BEFORE
MASS
55
AREA
35386
HEIGHT
18139
30-Mar-2023
12:34
linh
pham



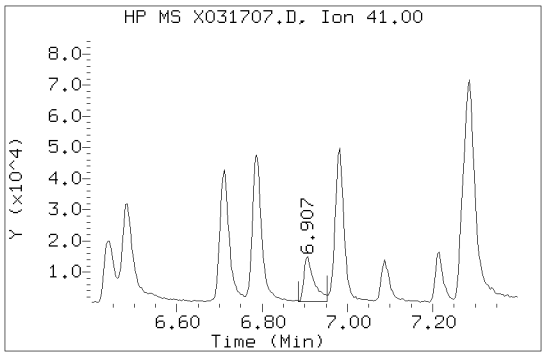
AFTER
MASS
55
AREA
35386
HEIGHT
18139
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
41
AREA
24753
HEIGHT
14583
30-Mar-2023
12:34
linh
pham



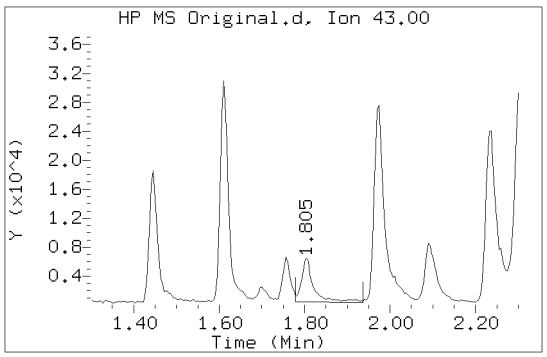
AFTER
MASS
41
AREA
24753
HEIGHT
14583
30-Mar-2023
12:41
linh
pham



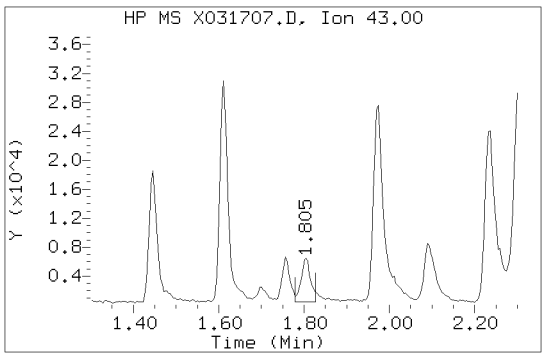
Propylene oxide ()

Reason Code:

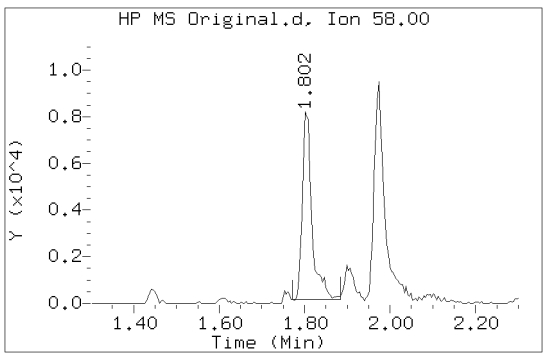
BEFORE
MASS
43
AREA
12179
HEIGHT
6030
30-Mar-2023
12:34
linh
pham



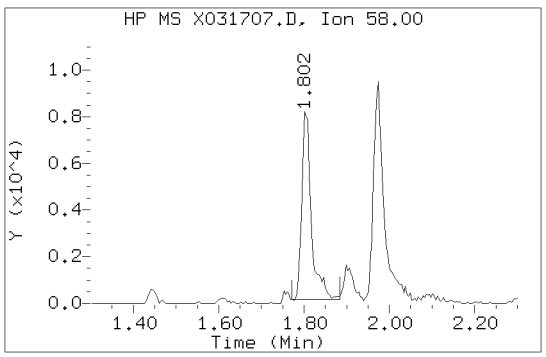
AFTER
MASS
43
AREA
9637
HEIGHT
6029
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
58
AREA
13057
HEIGHT
8060
30-Mar-2023
12:34
linh
pham



AFTER
MASS
58
AREA
13057
HEIGHT
8060
30-Mar-2023
12:41
linh
pham



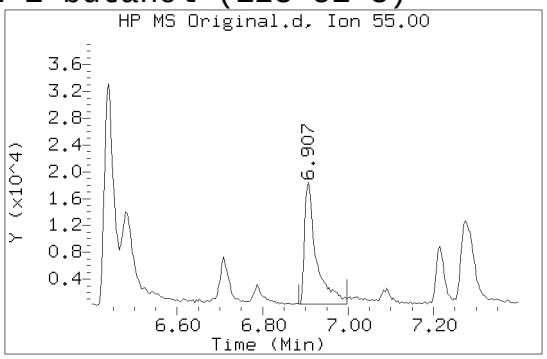
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031707.D
Inj Date : 17-MAR-2023 13:35
InstruID : voa6.i
LabSampID : VSTD020

3-Methyl-1-butanol (123-51-3)

Reason Code:

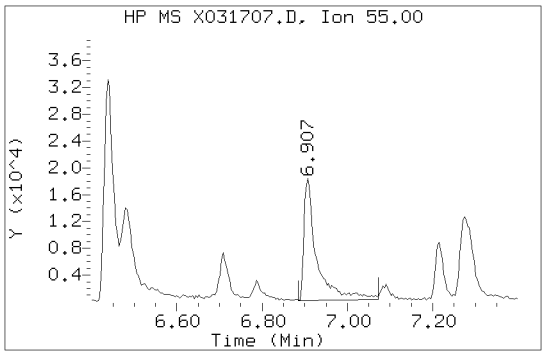
BEFORE

MASS
55
AREA
35386
HEIGHT
18139
30-Mar-2023
12:34
linh
pham



AFTER

MASS
55
AREA
39040
HEIGHT
18227
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
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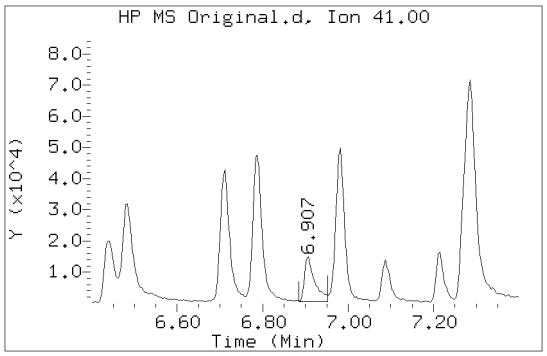
AREA
24753
HEIGHT
14583
30-Mar-2023
12:34
linh
pham



AFTER

MASS
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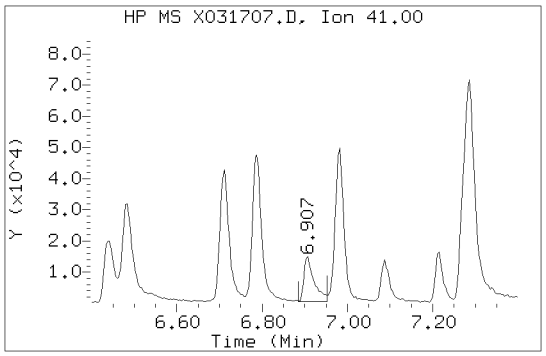
AREA
24753
HEIGHT
14583
30-Mar-2023
12:41
linh
pham

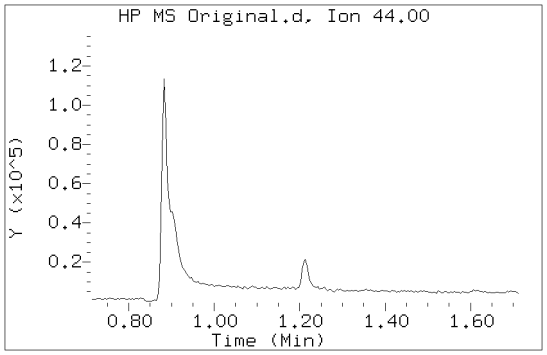


Acetaldehyde (75-07-0)

Reason Code:

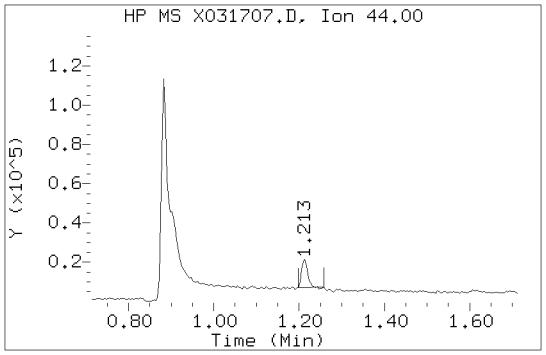
BEFORE

MASS
44
AREA
0
HEIGHT
0
30-Mar-2023
12:34
linh
pham



AFTER

MASS
44
AREA
14072
HEIGHT
14331
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
43
AREA
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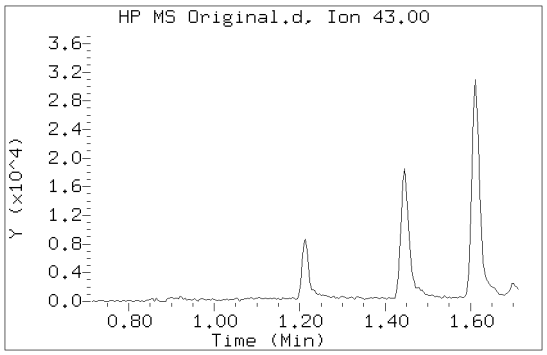
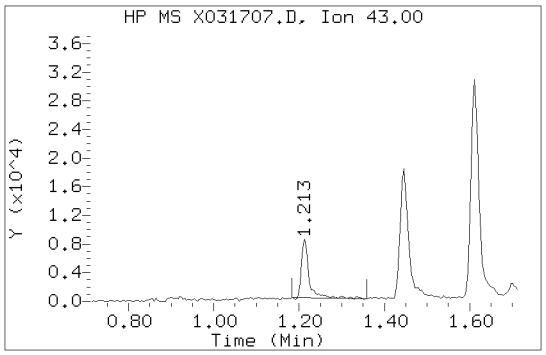
HEIGHT
0
30-Mar-2023
12:34
linh
pham



AFTER

MASS
43
AREA
10141
HEIGHT
8184
30-Mar-2023
12:41
linh
pham



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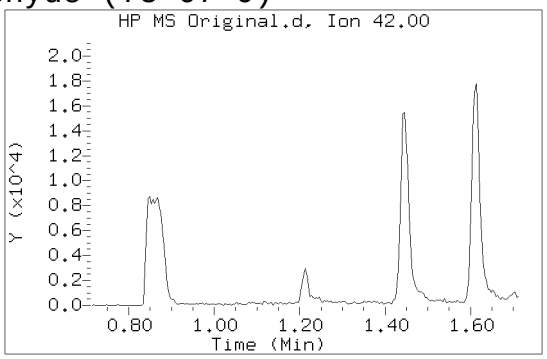
Inj Date : 17-MAR-2023 13:35
InstruID : voa6.i
LabSampID : VSTD020

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:34
linh
pham



AFTER

MASS
42
AREA
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HEIGHT
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30-Mar-2023
12:41
linh
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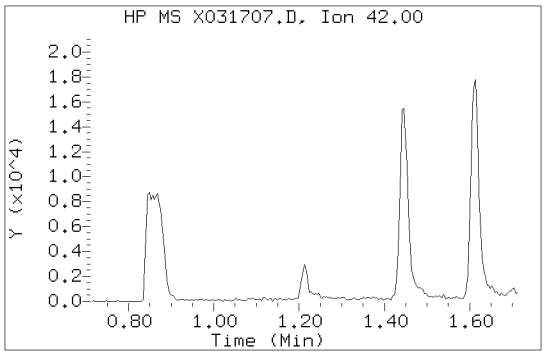
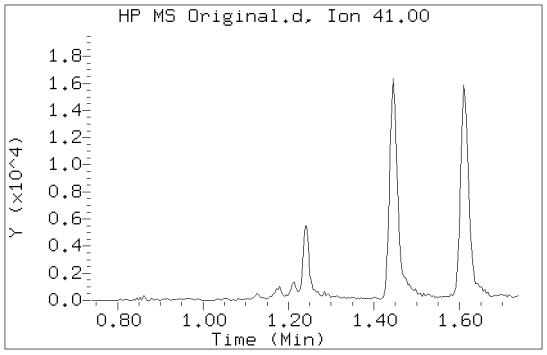


Isobutylene (115-11-7)

Reason Code:

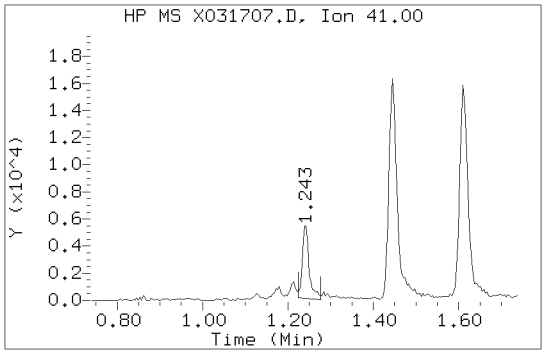
BEFORE

MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:34
linh
pham



AFTER

MASS
41
AREA
6364
HEIGHT
5367
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
56
AREA
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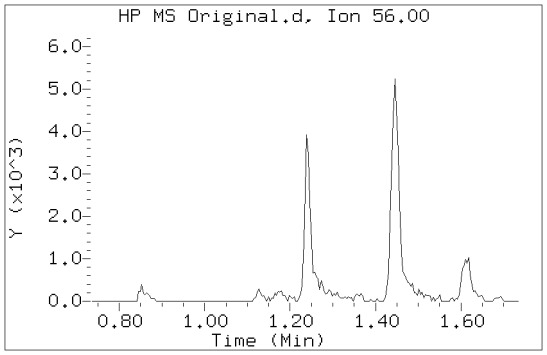
HEIGHT
0
30-Mar-2023
12:34
linh
pham



AFTER

MASS
56
AREA
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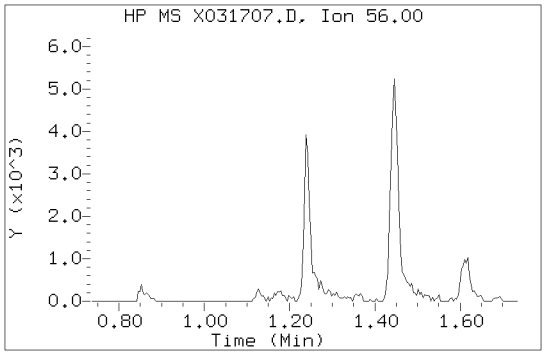
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
84
AREA
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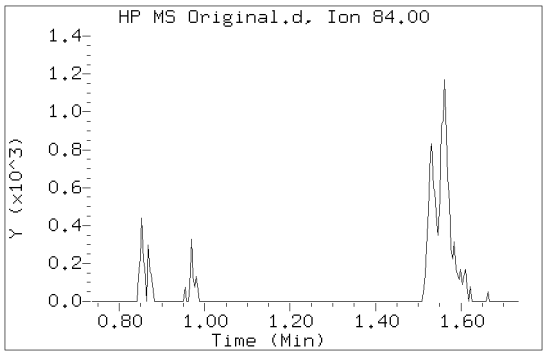
HEIGHT
0
30-Mar-2023
12:34
linh
pham



AFTER

MASS
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AREA
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HEIGHT
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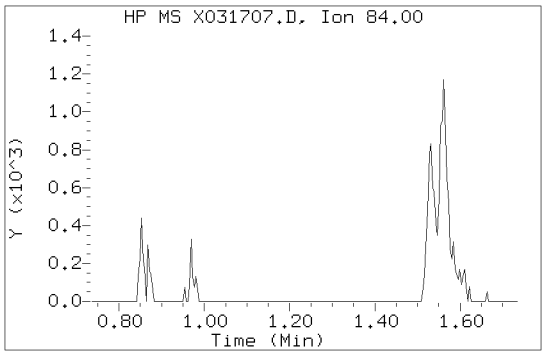
30-Mar-2023
12:41
linh
pham



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Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031708.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 17-MAR-2023 13:55
Operator : PC Inst ID: voa6.i
Smp Info : VSTD050;VSTD050;1;7;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:35 Cal File: X031707.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.177	4.177	(1.000)	373841	50.0000	
	2 Dichlorodifluoromethane	85	0.972	0.972	(0.233)	117977	50.0000	46.36
	3 Chloromethane	50	1.077	1.077	(0.258)	167357	50.0000	48.66
	4 Propionitrile	54	3.649	3.649	(0.873)	270084	500.000	512.73
	5 Vinyl Chloride	62	1.145	1.145	(0.274)	149239	50.0000	50.68
	6 Bromomethane	94	1.340	1.340	(0.321)	87374	50.0000	51.60
	7 Chloroethane	64	1.403	1.403	(0.336)	102645	50.0000	49.15
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	164979	50.0000	47.23
	9 Acrolein	56	1.445	1.445	(0.346)	19125	100.000	90.33
	10 Acetone	43	1.970	1.970	(0.472)	109249	100.000	112.28
	11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	107070	50.0000	47.69
	12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	526042	1000.00	1031.36
	13 Acetonitrile	39	2.194	2.194	(0.525)	180909	500.000	519.95
	14 Allyl Chloride	41	2.194	2.194	(0.525)	430489	50.0000	50.02
	15 Iodomethane	142	2.026	2.026	(0.485)	207928	100.000	81.56
	16 Acrylonitrile	53	2.528	2.528	(0.605)	131146	100.000	105.12
	17 Methylene Chloride	84	2.303	2.303	(0.551)	192572	50.0000	52.77
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	567859	50.0000	48.03
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	778166	100.000	94.34
	20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	154462	50.0000	48.78

21 Vinyl Acetate	43	2.993	2.993 (0.716)	1029643	100.000	107.91
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	289120	50.0000	50.41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.771	1.771	(0.424)	44157	50.0000	43.07(M)
	24 2-Butanone	43	3.574	3.574	(0.856)	151521	100.000	113.19
	25 Methacrylonitrile	41	3.814	3.814	(0.913)	176795	50.0000	51.31(a)
	26 2,2-Dichloropropane	77	3.506	3.506	(0.839)	222642	50.0000	49.28
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	191357	50.0000	49.93
	28 Chloroform	83	3.904	3.904	(0.935)	307216	50.0000	48.26
	29 Bromochloromethane	128	3.791	3.791	(0.908)	105048	50.0000	48.44
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	170305	50.0000	48.87
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	222808	50.0000	46.81
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	193486	50.0000	45.60
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	246302	50.0000	49.82
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	174932	50.0000	43.07
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	195743	50.0000	48.59
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	594591	50.0000	
	37 Benzene	78	4.507	4.507	(0.908)	703343	50.0000	48.10
	38 Trichloroethene	130	5.205	5.205	(1.048)	185831	50.0000	47.18
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	252126	50.0000	48.58
	40 Methyl Methacrylate	41	5.602	5.602	(1.341)	169979	50.0000	50.99
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	167359	100.000	106.06
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	192097	50.0000	48.75
	43 2-Nitropropane	43	5.969	5.969	(1.429)	57117	50.0000	48.66(H)
	44 Dibromomethane	93	5.549	5.549	(1.118)	125388	50.0000	49.89
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	363583	100.000	103.68
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	325410	50.0000	49.64
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	554194	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	614524	50.0000	44.73
	49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	205243	50.0000	46.89
	50 Toluene	91	6.445	6.445	(0.841)	730338	50.0000	50.22
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	278750	50.0000	51.22
	52 2-Hexanone	43	7.083	7.083	(0.924)	252865	100.000	105.07
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	155952	50.0000	49.33
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	321042	50.0000	51.09
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	223669	50.0000	50.08
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	135670	50.0000	46.54
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	201695	50.0000	51.61
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	119361	50.0000	42.40
	59 Chlorobenzene	112	7.690	7.690	(1.003)	512097	50.0000	49.28
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	195670	50.0000	48.86
	61 Ethylbenzene	106	7.799	7.799	(1.017)	242806	50.0000	47.48
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	620869	100.000	96.47
	63 o-Xylene	106	8.241	8.241	(1.075)	311334	50.0000	48.14
	64 Styrene	104	8.256	8.256	(1.077)	545876	50.0000	51.08
	66 Bromoform	173	8.410	8.410	(1.097)	161168	50.0000	52.19
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	689580	50.0000	46.55
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	264683	50.0000	49.31
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	251415	50.0000	47.91
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	308014	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	206608	50.0000	51.22(M)
	72 trans-1,4-Dichloro-2-butene	53	8.889	8.889	(1.159)	62606	50.0000	50.73
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	800417	50.0000	46.75
	74 Bromobenzene	156	8.803	8.803	(0.911)	242222	50.0000	48.91
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	626138	50.0000	47.15

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	545068	50.0000	47.35
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	628283	50.0000	48.43

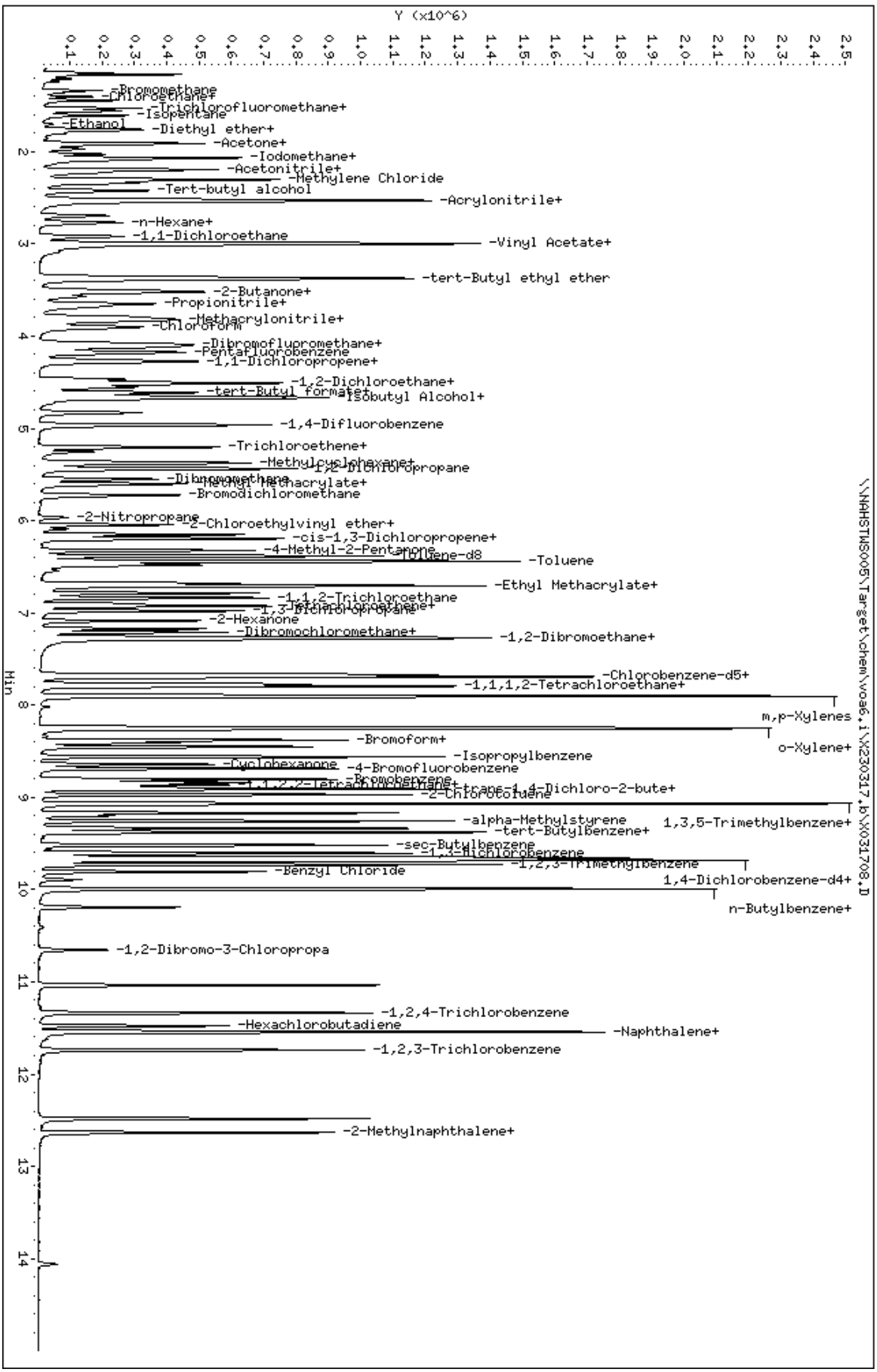
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	479849	50.0000	45.37
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	647040	50.0000	47.51
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	635488	50.0000	44.33
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	597051	50.0000	46.67
83	1,3-Dichlorobenzene	146	9.605	9.605	(0.994)	407797	50.0000	47.61
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	425076	50.0000	46.17
86	Benzyl Chloride	91	9.808	9.808	(1.279)	426174	50.0000	48.57
87	n-Butylbenzene	91	9.992	9.992	(1.034)	492948	50.0000	47.81
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	415464	50.0000	48.49
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	47841	50.0000	48.44
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	309417	50.0000	49.40
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	105547	50.0000	43.74
92	Naphthalene	128	11.540	11.540	(1.194)	776382	50.0000	51.64
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	294272	50.0000	49.10
146	Methyl acetate	43	2.228	2.228	(0.533)	120116	50.0000	55.90
138	Freon TF	101	1.913	1.913	(0.458)	91222	50.0000	44.28
141	Cyclohexane	56	4.121	4.121	(0.987)	172149	50.0000	43.51
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	63889	100.000	104.65
147	Methylcyclohexane	55	5.377	5.377	(1.083)	416477	50.0000	50.72
135	1,4-Dioxane	88	5.598	5.598	(1.340)	49172	1000.00	991.26
132	n-Butanol	56	5.253	5.253	(1.258)	92688	1000.00	959.97
131	Methyl Acrylate	55	3.686	3.686	(0.882)	193417	50.0000	49.95
133	Ethyl Acrylate	55	5.377	5.377	(1.287)	416477	50.0000	51.05
136	n-Hexane	57	2.772	2.772	(0.664)	126023	50.0000	49.94
139	Diethyl ether	59	1.756	1.756	(0.420)	125530	50.0000	50.11
148	Tert-butyl alcohol	59	2.423	2.423	(0.580)	393877	1000.00	1006.07
149	Isopropyl alcohol	45	2.089	2.089	(0.500)	215502	1000.00	1030.13
156	Diisopropyl ether	45	2.997	2.997	(0.717)	569349	50.0000	49.05
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	371558	50.0000	50.00
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	686753	50.0000	46.49
167	Ethanol	45	1.703	1.703	(0.408)	33743	1000.00	1006.41
172	tert-Butyl formate	59	4.612	4.612	(1.104)	317073	100.000	104.09
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	409497	1000.00	958.91
174	tert-Amyl methyl ether	73	4.661	4.661	(1.116)	615262	50.0000	45.99
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.808)	591649	50.0000	48.66
176	tert-Amyl alcohol	59	4.612	4.612	(1.104)	317073	1000.00	991.09
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	835722	1000.00	962.95
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	371558	50.0000	(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	124352	50.0000	49.04
152	Amyl alcohol	42	6.899	6.899	(0.900)	102123	1000.00	1022.45
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	228773	50.0000	49.39
159	Propylene oxide	43	1.801	1.801	(0.431)	24664	100.000	105.75
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	102539	1000.00	1060.15
162	Butyl acrylate	55	8.248	8.248	(1.076)	415512	50.0000	50.79
182	Epichlorohydrin	57	6.093	6.093	(1.227)	68301	200.000	201.35
M 94	1,2-Dichloroethylene (total)	96				345819	100.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	325877	50.0000	48.52
130	Ethyl Acetate	43	3.653	3.653	(0.874)	194667	50.0000	50.41
134	Cyclohexanone	55	8.642	8.642	(0.894)	181830	1000.00	993.98
185	Isoprene	39	1.771	1.771	(0.424)	34797	50.0000	48.52
188	Isopropyl acetate	43	4.672	4.672	(0.941)	529263	50.0000	49.15
187	n-Amyl acetate	43	8.451	8.451	(1.102)	340673	50.0000	49.50

189 n-Butyl acetate	43	7.210	7.210 (0.940)	307519	50.0000	52.39(H)
150 Allyl alcohol	57	2.772	2.772 (0.664)	126023	1000.00	999.35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.212	1.212	(0.290)	48915	200.000	219.37(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	436676	50.0000	49.86
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	400941	50.0000	55.24
202 Isobutylene	41	1.242	1.242	(0.297)	14468	50.0000	46.55(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	243042	50.0000	53.44

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Date : 17-MAR-2023 13:55
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;7;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

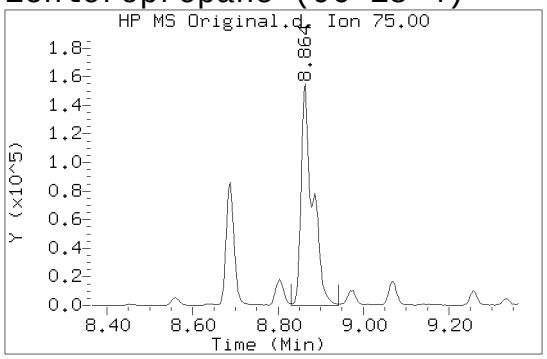
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031708.D
Inj Date : 17-MAR-2023 13:55
InstruID : voa6.i
LabSampID : VSTD050

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

MASS
75
AREA
296531
HEIGHT
155088
30-Mar-2023
12:34
linh
pham



AFTER

MASS
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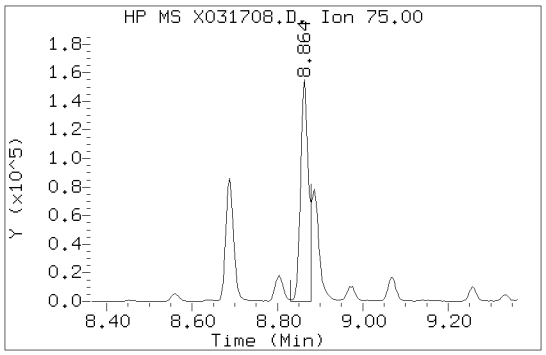
30-Mar-2023
12:41
linh
pham



BEFORE

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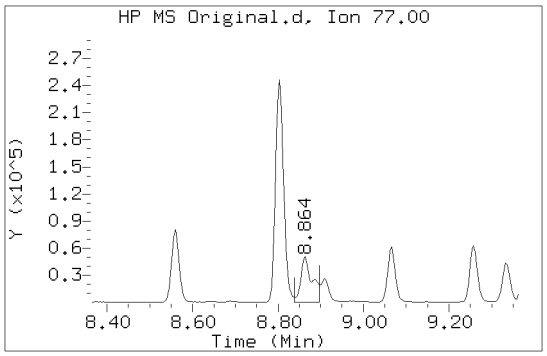

AFTER

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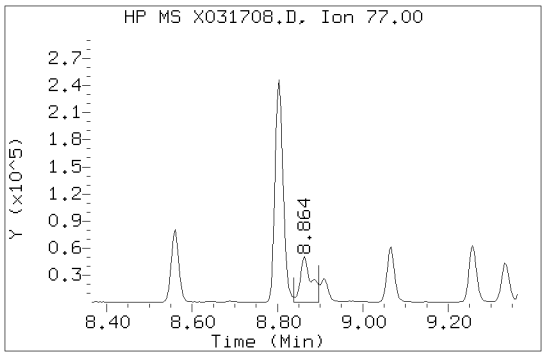

Chloroprene (126-99-8)

Reason Code:

BEFORE

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AREA
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HEIGHT
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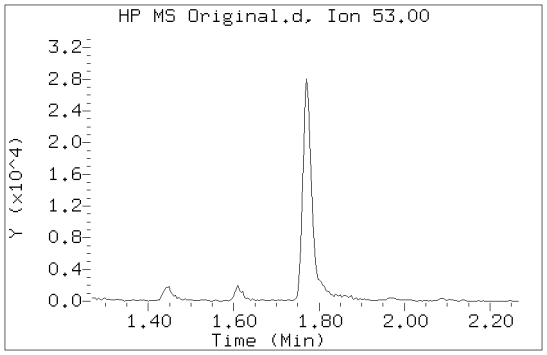
30-Mar-2023
12:34
linh
pham



AFTER

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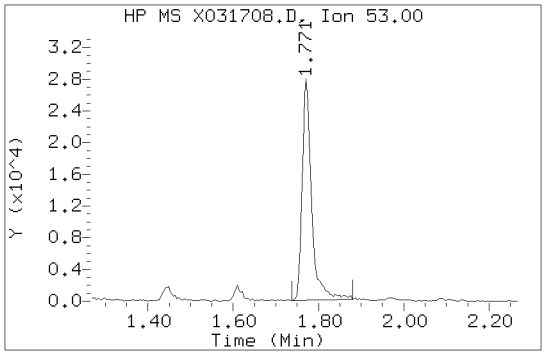

BEFORE

MASS
88
AREA
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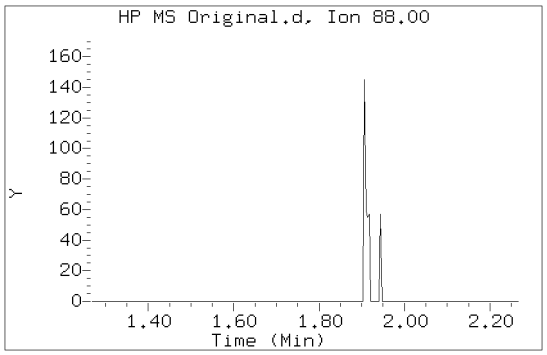
0
30-Mar-2023
12:34
linh
pham



AFTER

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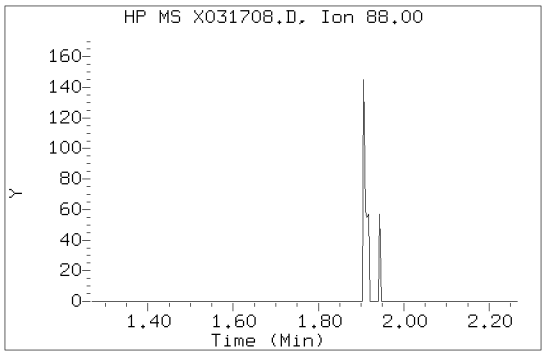
30-Mar-2023
12:41
linh
pham



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Inj Date : 17-MAR-2023 13:55
InstruID : voa6.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
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AREA
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HEIGHT
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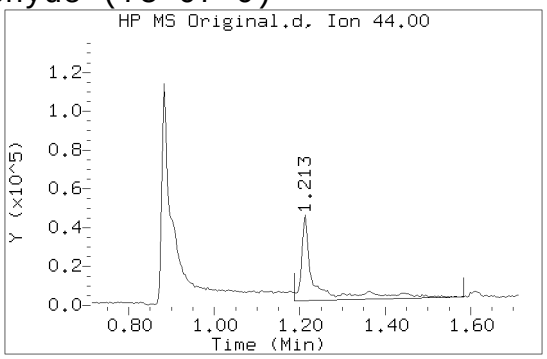
30-Mar-2023
12:34
linh
pham



AFTER

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HEIGHT
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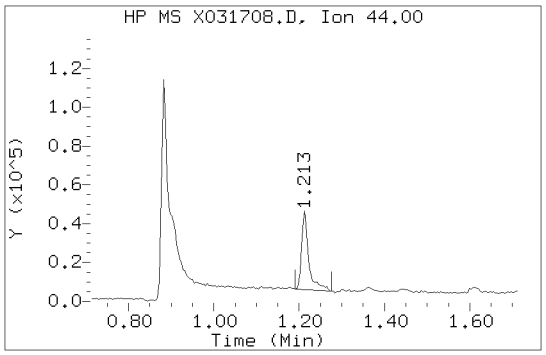
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
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HEIGHT
21609
30-Mar-2023
12:34
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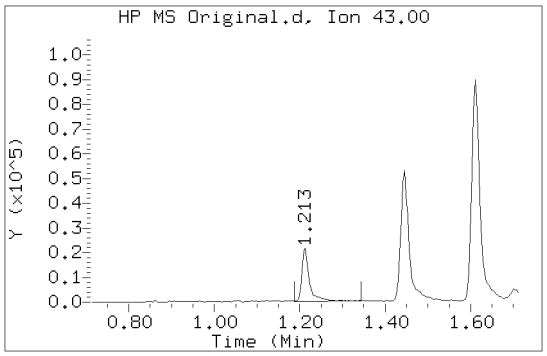

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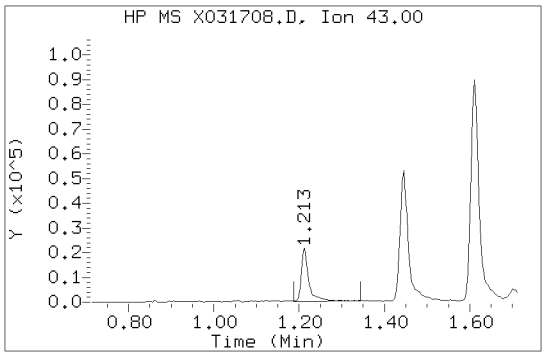

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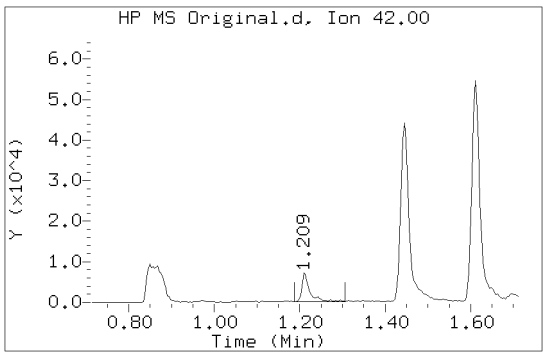

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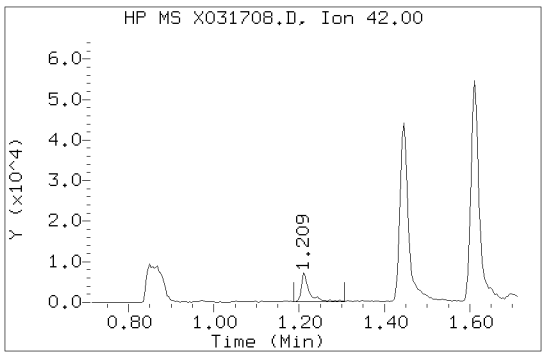

Isobutylene (115-11-7)

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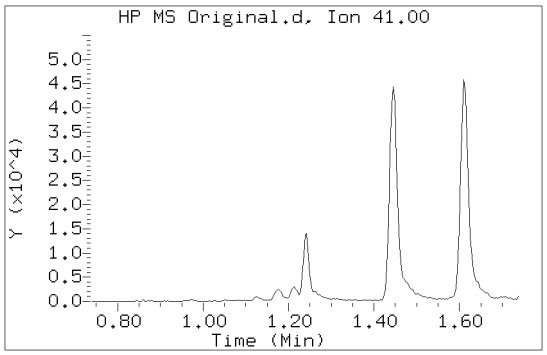

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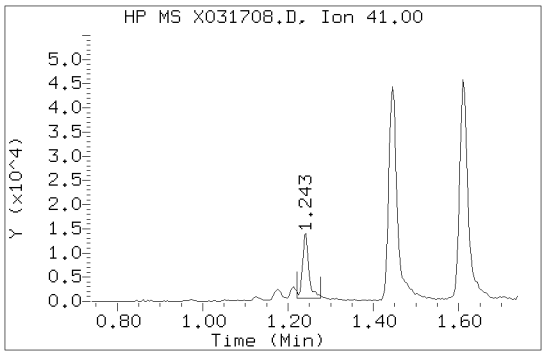

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LabSampID : VSTD050

Isobutylene (115-11-7)

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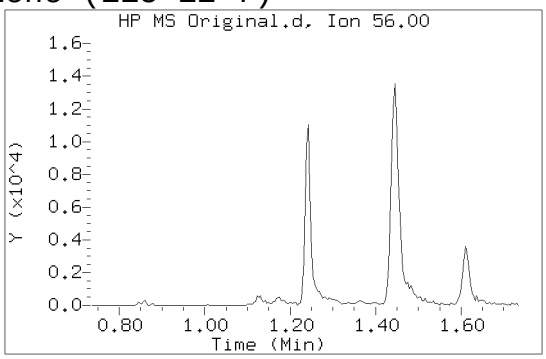

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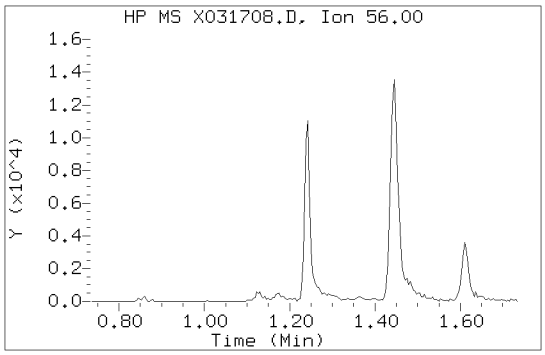

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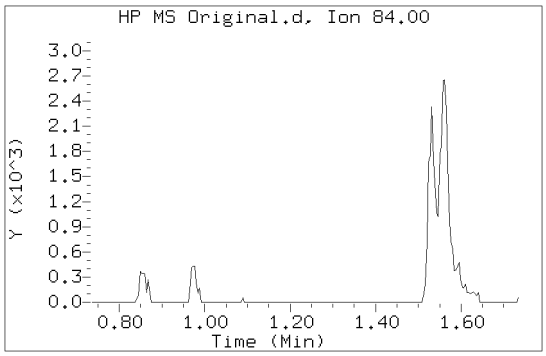

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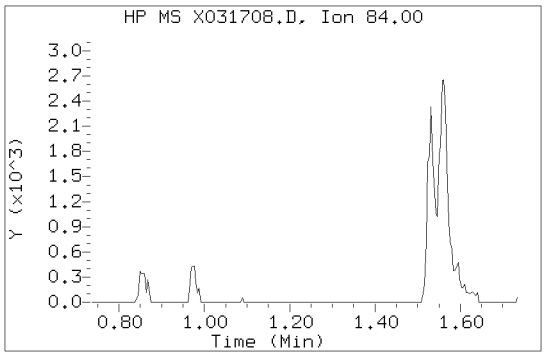

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Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031709.D
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Inj Date : 17-MAR-2023 14:16
Operator : PC Inst ID: voa6.i
Smp Info : VSTD100;VSTD100;1;8;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.178	4.178	(1.000)	373326	50.0000	
2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	277552	100.000	103.28
3	Chloromethane	50	1.077	1.077	(0.258)	356664	100.000	103.86
4	Propionitrile	54	3.649	3.649	(0.873)	500613	1000.00	951.68
5	Vinyl Chloride	62	1.141	1.141	(0.273)	323679	100.000	110.07
6	Bromomethane	94	1.336	1.336	(0.320)	172412	100.000	101.97
7	Chloroethane	64	1.400	1.400	(0.335)	198128	100.000	95.00
8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	383047	100.000	109.82
9	Acrolein	56	1.441	1.441	(0.345)	43228	200.000	200.51
10	Acetone	43	1.970	1.970	(0.472)	202318	200.000	212.66
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	221993	100.000	99.02
12	Isobutyl Alcohol	43	4.672	4.672	(1.118)	1027812	2000.00	2017.91
13	Acetonitrile	39	2.194	2.194	(0.525)	351546	1000.00	1011.77
14	Allyl Chloride	41	2.194	2.194	(0.525)	837914	100.000	97.49
15	Iodomethane	142	2.026	2.026	(0.485)	585867	200.000	199.05
16	Acrylonitrile	53	2.528	2.528	(0.605)	252967	200.000	203.05
17	Methylene Chloride	84	2.299	2.299	(0.550)	376597	100.000	105.01
18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	1106413	100.000	93.72
19	Carbon Disulfide	76	2.067	2.067	(0.495)	1741977	200.000	211.48
20	trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	313441	100.000	99.12

21 Vinyl Acetate	43	2.993	2.993 (0.716)	1981655	200.000	207.98
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	568085	100.000	99.19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	103957	100.000	101.54(M)
	24 2-Butanone	43	3.570	3.570	(0.855)	280363	200.000	209.74
	25 Methacrylonitrile	41	3.818	3.818	(0.914)	333435	100.000	96.90(a)
	26 2,2-Dichloropropane	77	3.506	3.506	(0.839)	466243	100.000	103.62
	27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	376913	100.000	98.50
	28 Chloroform	83	3.904	3.904	(0.935)	596625	100.000	93.86
	29 Bromochloromethane	128	3.788	3.788	(0.907)	202913	100.000	93.70
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	363757	100.000	105.41
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	487144	100.000	102.49
	32 1,1-Dichloropropene	75	4.275	4.275	(0.861)	441031	100.000	104.91
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	468518	100.000	95.65
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	410835	100.000	102.08
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	399036	100.000	98.10
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	589182	50.0000	
	37 Benzene	78	4.507	4.507	(0.908)	1431863	100.000	98.83
	38 Trichloroethene	130	5.205	5.205	(1.048)	400557	100.000	102.64
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	506448	100.000	98.48
	40 Methyl Methacrylate	41	5.602	5.602	(1.341)	326581	100.000	98.10
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	327658	200.000	209.56
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	383165	100.000	98.14
	43 2-Nitropropane	43	5.966	5.966	(1.428)	109575	100.000	93.48(H)
	44 Dibromomethane	93	5.550	5.550	(1.118)	241011	100.000	96.77
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	694559	200.000	196.15
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	659873	100.000	101.58
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	559622	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1390406	100.000	100.22
	49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	405857	100.000	93.57
	50 Toluene	91	6.445	6.445	(0.841)	1494031	100.000	101.75
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	550884	100.000	102.15
	52 2-Hexanone	43	7.083	7.083	(0.924)	479633	200.000	197.36
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	304907	100.000	95.51
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	626632	100.000	98.77
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	450128	100.000	99.81
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	311869	100.000	105.95
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	396776	100.000	100.55
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	288303	100.000	100.14
	59 Chlorobenzene	112	7.690	7.690	(1.003)	1045060	100.000	99.59
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	404357	100.000	100.00
	61 Ethylbenzene	106	7.795	7.795	(1.017)	520880	100.000	100.87
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	1310496	200.000	201.65
	63 o-Xylene	106	8.241	8.241	(1.075)	649022	100.000	99.39
	64 Styrene	104	8.256	8.256	(1.077)	1112835	100.000	103.13
	66 Bromoform	173	8.410	8.410	(1.097)	318471	100.000	102.13
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1551960	100.000	103.76
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	506447	100.000	95.00
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	535221	100.000	101.20
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	305929	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	374411	100.000	93.45
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	125897	100.000	100.52
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	1823425	100.000	107.24
	74 Bromobenzene	156	8.803	8.803	(0.911)	502549	100.000	102.17
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1382649	100.000	104.83

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	1136061	100.000	99.37
77	4-Chlorotoluene	91	9.066	9.066 (0.938)	1330298	100.000	103.24

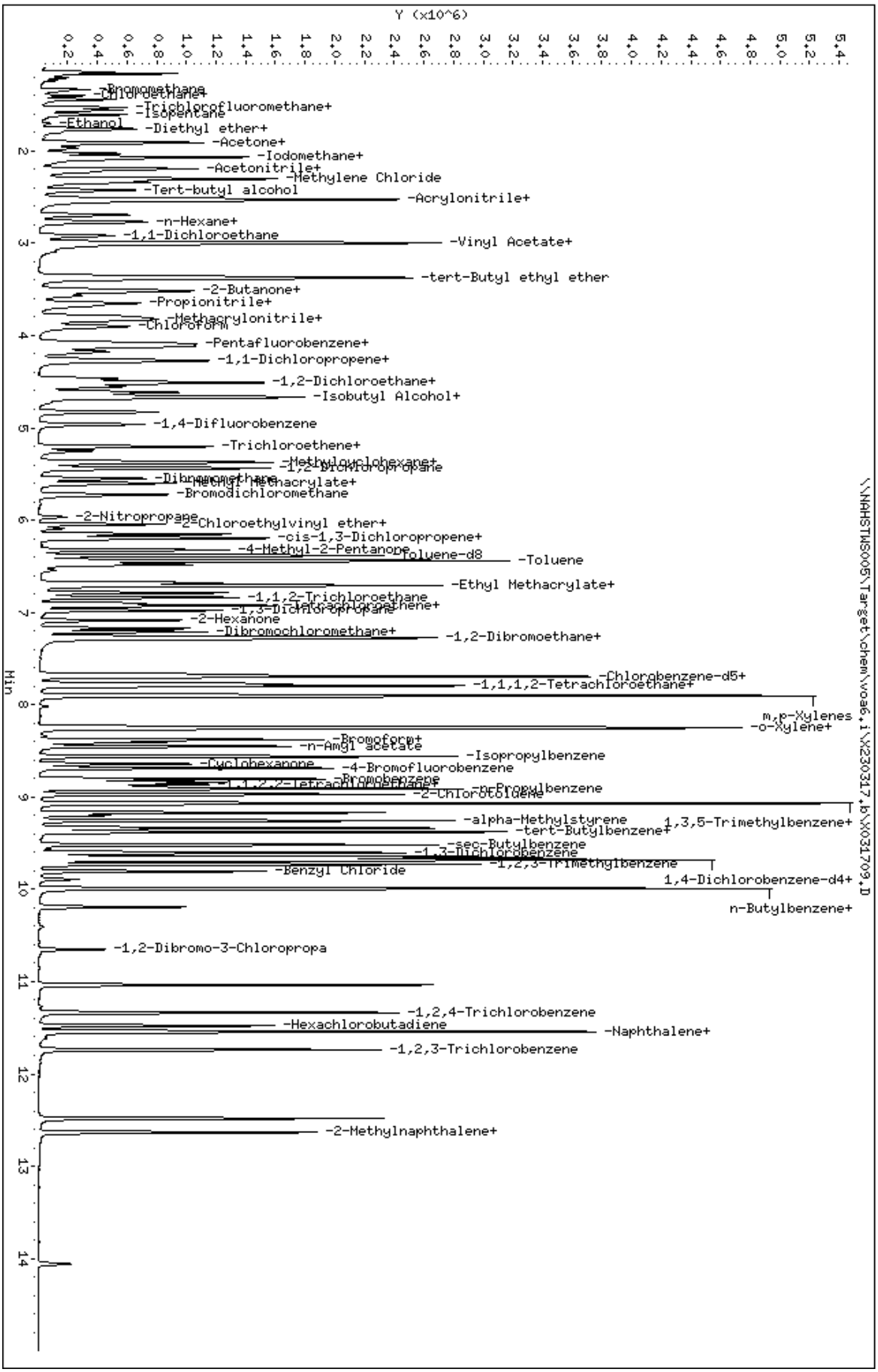
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	1129372	100.000	107.51
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1408896	100.000	104.16
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	1542474	100.000	108.34
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	1423483	100.000	112.05
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	869404	100.000	102.20
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	897147	100.000	98.12
86	Benzyl Chloride	91	9.804	9.804	(1.279)	885238	100.000	98.29
87	n-Butylbenzene	91	9.992	9.992	(1.034)	1188413	100.000	116.06
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	866723	100.000	101.86
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	98490	100.000	98.83
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	693645	100.000	111.50
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	283471	100.000	106.15
92	Naphthalene	128	11.540	11.540	(1.194)	1624520	100.000	108.80
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	651606	100.000	109.46
146	Methyl acetate	43	2.228	2.228	(0.533)	224921	100.000	104.81
138	Freon TF	101	1.913	1.913	(0.458)	233445	100.000	105.32
141	Cyclohexane	56	4.118	4.118	(0.986)	457578	100.000	106.56
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	116378	200.000	190.90
147	Methylcyclohexane	55	5.377	5.377	(1.083)	889964	100.000	109.39(A)
135	1,4-Dioxane	88	5.594	5.594	(1.339)	92798	2000.00	1873.30
132	n-Butanol	56	5.253	5.253	(1.258)	199313	2000.00	2030.57
131	Methyl Acrylate	55	3.683	3.683	(0.882)	416973	100.000	107.84
133	Ethyl Acrylate	55	5.377	5.377	(1.287)	889964	100.000	109.24
136	n-Hexane	57	2.768	2.768	(0.663)	370085	100.000	100.00
139	Diethyl ether	59	1.752	1.752	(0.419)	235295	100.000	94.06
148	Tert-butyl alcohol	59	2.427	2.427	(0.581)	765382	2000.00	1957.70
149	Isopropyl alcohol	45	2.093	2.093	(0.501)	428529	2000.00	2051.26
156	Diisopropyl ether	45	2.997	2.997	(0.717)	1123796	100.000	96.96
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	804932	100.000	109.05
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1443919	100.000	98.41
167	Ethanol	45	1.703	1.703	(0.408)	62408	2000.00	1863.93
172	tert-Butyl formate	59	4.616	4.616	(1.105)	612085	200.000	201.21(A)
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	798841	2000.00	1852.48
174	tert-Amyl methyl ether	73	4.665	4.665	(1.117)	1227733	100.000	91.90
175	tert-Butyl ethyl ether	59	3.372	3.372	(0.807)	1182106	100.000	97.37
176	tert-Amyl alcohol	59	4.616	4.616	(1.105)	612085	2000.00	1915.86
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	1637388	2000.00	1903.98
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	804932	100.000	(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	270902	100.000	107.00
152	Amyl alcohol	42	6.899	6.899	(0.900)	209583	2000.00	2077.98
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	450874	100.000	97.48
159	Propylene oxide	43	1.801	1.801	(0.431)	45025	200.000	193.32
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	210157	2000.00	2151.74
162	Butyl acrylate	55	8.249	8.249	(1.076)	809554	100.000	98.00
182	Epichlorohydrin	57	6.093	6.093	(1.227)	129213	400.000	384.42
M 94	1,2-Dichloroethylene (total)	96				690354	200.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	710271	100.000	106.49
130	Ethyl Acetate	43	3.649	3.649	(0.873)	374414	100.000	97.10
134	Cyclohexanone	55	8.642	8.642	(0.894)	343740	2000.00	1891.88
185	Isoprene	39	1.767	1.767	(0.423)	74498	100.000	104.02
188	Isopropyl acetate	43	4.672	4.672	(0.941)	1027473	100.000	96.31
187	n-Amyl acetate	43	8.451	8.451	(1.102)	671526	100.000	96.63

189 n-Butyl acetate	43	7.210	7.210 (0.940)	605118	100.000	102.09(H)
150 Allyl alcohol	57	2.768	2.768 (0.663)	370085	2000.00	2000.01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.212	1.212	(0.290)	91272	400.000	410.61(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	852352	100.000	96.38
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	832592	100.000	113.61
202 Isobutylene	41	1.239	1.239	(0.297)	30934	100.000	99.67(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	516446	100.000	114.34

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8;
Purge Volume: 5.0
Column phase: DB624

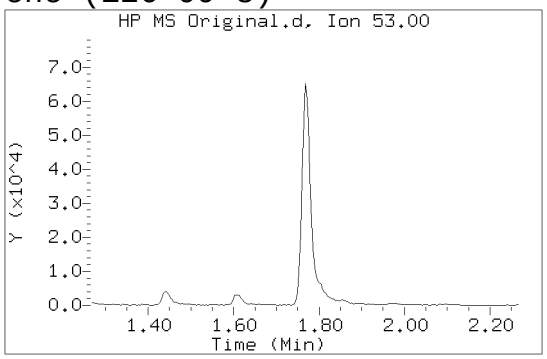
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031709.D
Inj Date : 17-MAR-2023 14:16
InstruID : voa6.i
LabSampID : VSTD100

Chloroprene (126-99-8)

Reason Code:

BEFORE
MASS
53
AREA
0
HEIGHT
0
30-Mar-2023
12:34
linh
pham



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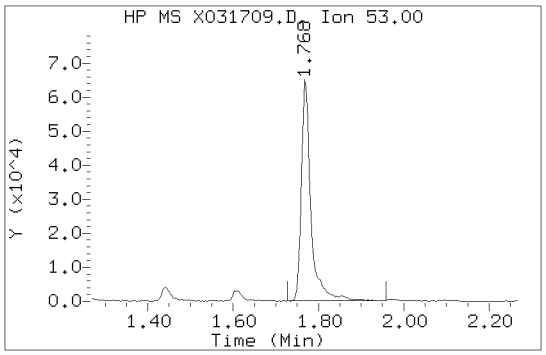

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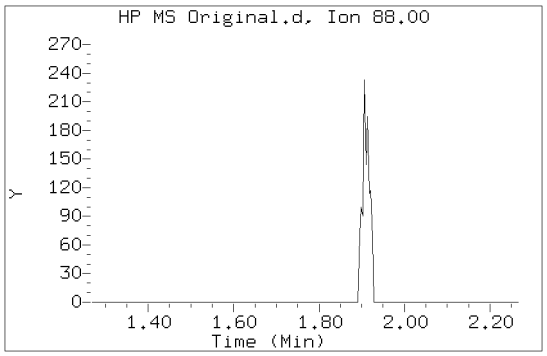

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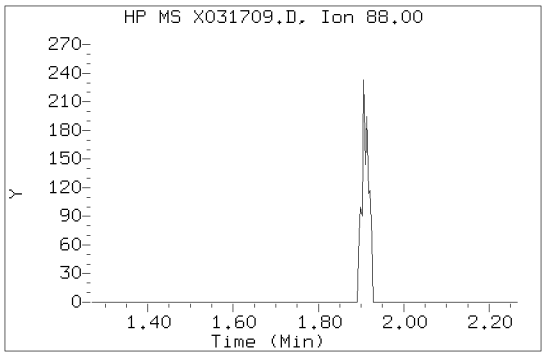

Acetaldehyde (75-07-0)

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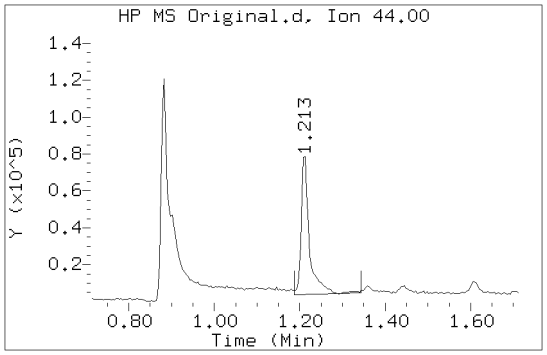

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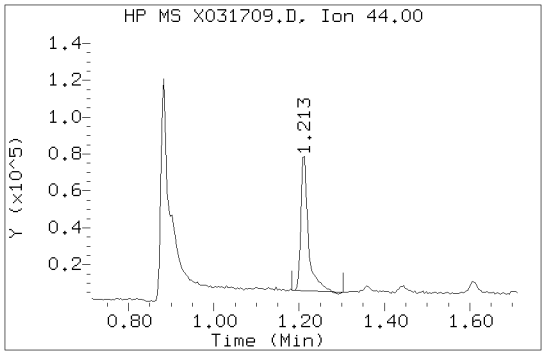

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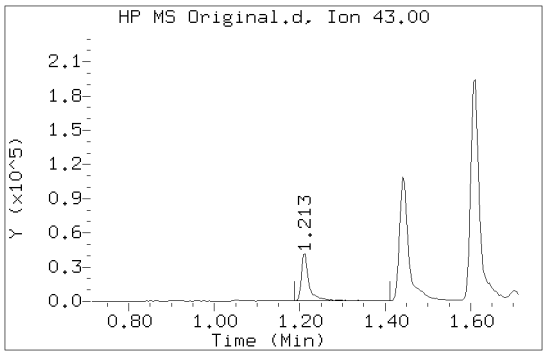

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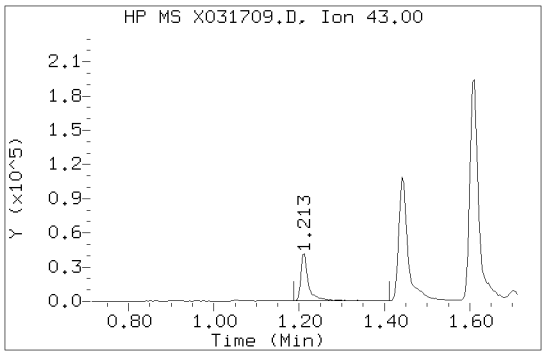

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LabSampID : VSTD100

Acetaldehyde (75-07-0)

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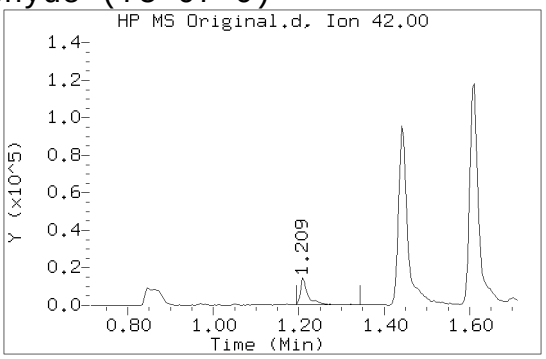

AFTER

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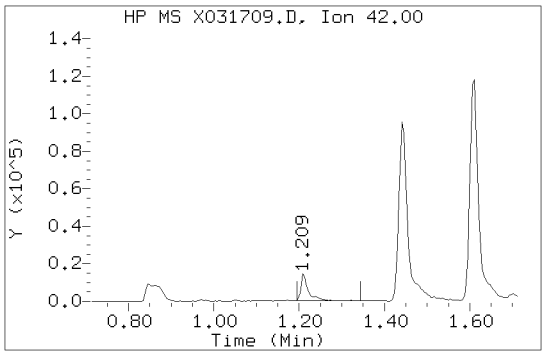

Isobutylene (115-11-7)

Reason Code:

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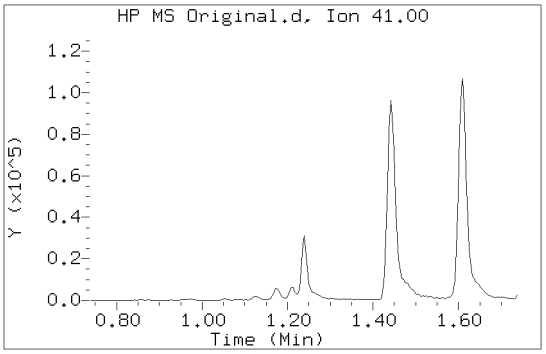

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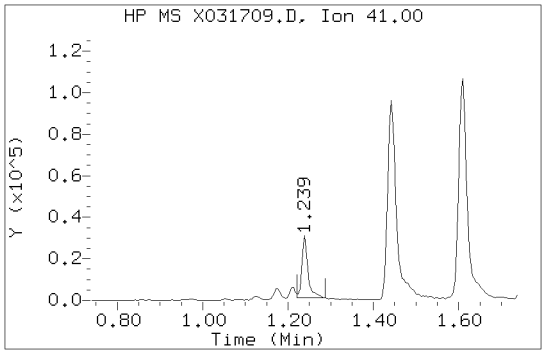

BEFORE

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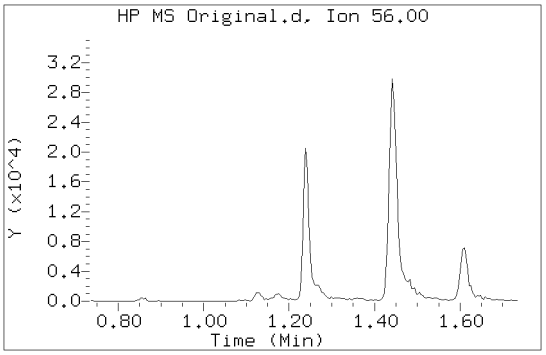

AFTER

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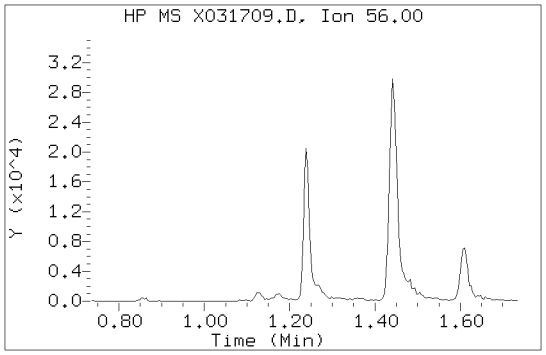

BEFORE

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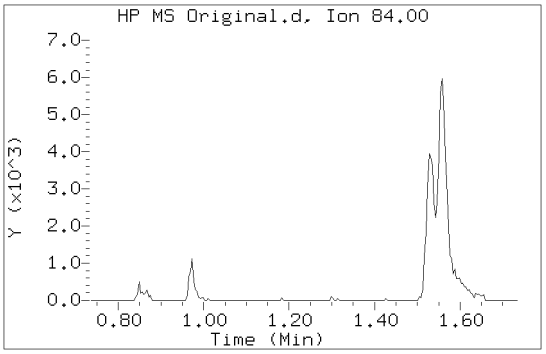

AFTER

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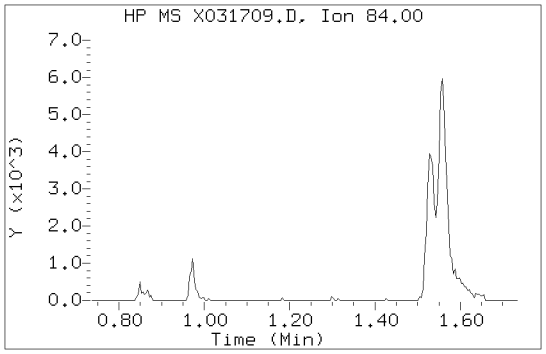

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Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031710.D
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Inj Date : 17-MAR-2023 14:37
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Smp Info : VSTD150;VSTD150;1;9;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 14:16 Cal File: X031709.D
Als bottle: 11 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.177	4.177	(1.000)	360022	50.0000	
2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	404362	150.000	148.84
3	Chloromethane	50	1.077	1.077	(0.258)	545496	150.000	164.71
4	Propionitrile	54	3.645	3.645	(0.873)	675386	1500.00	1331.38
5	Vinyl Chloride	62	1.141	1.141	(0.273)	456072	150.000	160.83
6	Bromomethane	94	1.336	1.336	(0.320)	252433	150.000	154.82
7	Chloroethane	64	1.400	1.400	(0.335)	273745	150.000	136.12
8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	546040	150.000	162.34
9	Acrolein	56	1.441	1.441	(0.345)	65230	300.000	311.99
10	Acetone	43	1.970	1.970	(0.472)	258914	300.000	283.91
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	315932	150.000	146.13
12	Isobutyl Alcohol	43	4.672	4.672	(1.118)	1386063	3000.00	2821.83
13	Acetonitrile	39	2.194	2.194	(0.525)	483631	1500.00	1443.36
14	Allyl Chloride	41	2.194	2.194	(0.525)	1147277	150.000	138.42
15	Iodomethane	142	2.026	2.026	(0.485)	998873	300.000	314.95
16	Acrylonitrile	53	2.532	2.532	(0.606)	355305	300.000	295.73
17	Methylene Chloride	84	2.299	2.299	(0.550)	522386	150.000	151.81
18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	1507291	150.000	132.40
19	Carbon Disulfide	76	2.067	2.067	(0.495)	2561317	300.000	322.44
20	trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	441105	150.000	144.65

21 Vinyl Acetate	43	2.993	2.993 (0.716)	2688384	300.000	292.58
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	800341	150.000	144.92

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	148488	150.000	150.39(M)
	24 2-Butanone	43	3.570	3.570	(0.855)	381950	300.000	296.30
	25 Methacrylonitrile	41	3.814	3.814	(0.913)	442319	150.000	133.30(a)
	26 2,2-Dichloropropane	77	3.506	3.506	(0.839)	659792	150.000	152.17
	27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	526207	150.000	142.59
	28 Chloroform	83	3.900	3.900	(0.934)	832851	150.000	135.87
	29 Bromochloromethane	128	3.791	3.791	(0.908)	283104	150.000	135.57
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	489100	150.000	147.27
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	696517	150.000	151.95
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	629929	150.000	157.52
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	669631	150.000	143.72
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	594286	150.000	155.24
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	545784	150.000	138.70
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	560454	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	2038961	150.000	147.95
	38 Trichloroethene	130	5.205	5.205	(1.048)	575466	150.000	155.03
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	718783	150.000	146.93
	40 Methyl Methacrylate	41	5.602	5.602	(1.341)	437883	150.000	136.40
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	455925	300.000	306.54
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	535458	150.000	144.17
	43 2-Nitropropane	43	5.966	5.966	(1.428)	153482	150.000	135.78(H)
	44 Dibromomethane	93	5.549	5.549	(1.118)	337672	150.000	142.54
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	966015	300.000	282.73
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	942525	150.000	152.54
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	539996	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1880549	150.000	140.48
	49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	574510	150.000	139.24
	50 Toluene	91	6.445	6.445	(0.841)	2120957	150.000	149.70
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	793381	150.000	154.66
	52 2-Hexanone	43	7.086	7.086	(0.924)	667149	300.000	284.50
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	427729	150.000	138.86
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	887204	150.000	144.92
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	650760	150.000	149.55
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	445786	150.000	156.96
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	559643	150.000	146.99
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	412465	150.000	149.49
	59 Chlorobenzene	112	7.690	7.690	(1.003)	1511690	150.000	149.30
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	592699	150.000	151.91
	61 Ethylbenzene	106	7.799	7.799	(1.017)	759617	150.000	152.45
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	1886888	300.000	300.90
	63 o-Xylene	106	8.241	8.241	(1.075)	931024	150.000	147.75
	64 Styrene	104	8.256	8.256	(1.077)	1605850	150.000	154.23
	66 Bromoform	173	8.410	8.410	(1.097)	468208	150.000	155.61
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	2232488	150.000	154.69
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	728449	150.000	140.90
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	758344	150.000	148.68
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	296706	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	618448	150.000	159.17
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	181079	150.000	149.57
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	2643795	150.000	160.32
	74 Bromobenzene	156	8.803	8.803	(0.911)	733579	150.000	153.78
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1997400	150.000	156.16

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	1681359	150.000	151.64
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	1932295	150.000	154.62

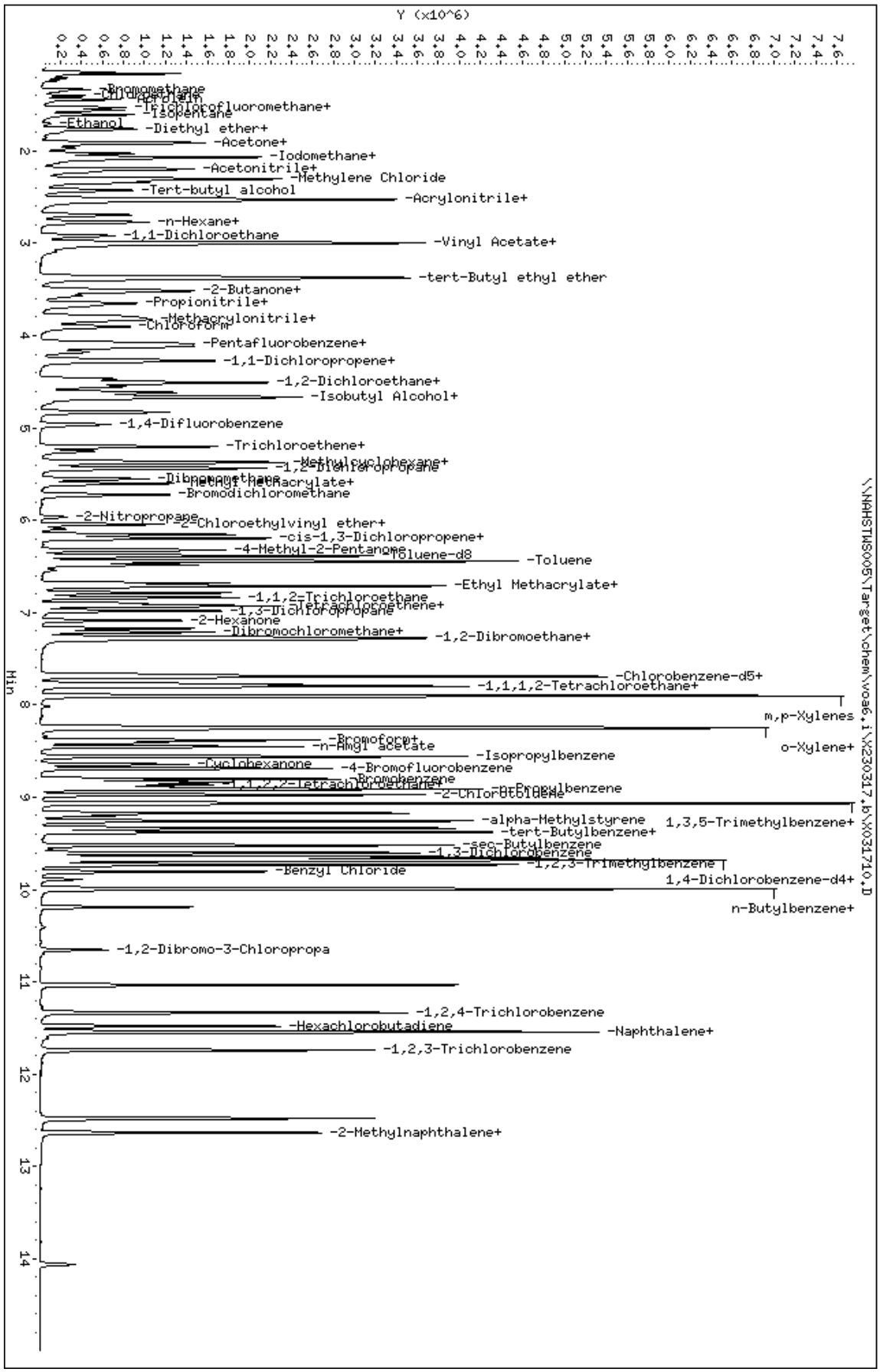
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	1627651	150.000	159.77
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	2043656	150.000	155.79
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	2257002	150.000	163.45
82	p-Isopropyltoluene	119	9.650	9.650	(0.999)	2060292	150.000	167.21
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	1265740	150.000	153.41
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	1295932	150.000	146.14
86	Benzyl Chloride	91	9.804	9.804	(1.279)	1294607	150.000	148.17
87	n-Butylbenzene	91	9.992	9.992	(1.034)	1709547	150.000	172.15
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	1253901	150.000	151.95
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	139207	150.000	143.35
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	995398	150.000	164.99
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	412820	150.000	147.67
92	Naphthalene	128	11.540	11.540	(1.194)	2264623	150.000	156.39
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	908422	150.000	157.35
146	Methyl acetate	43	2.228	2.228	(0.533)	306447	150.000	148.08
138	Freon TF	101	1.913	1.913	(0.458)	333134	150.000	147.97
141	Cyclohexane	56	4.121	4.121	(0.987)	641070	150.000	147.34
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	154659	300.000	263.06
147	Methylcyclohexane	55	5.377	5.377	(1.083)	1263502	150.000	163.27(A)
135	1,4-Dioxane	88	5.602	5.602	(1.341)	133909	3000.00	2803.10
132	n-Butanol	56	5.253	5.253	(1.258)	285255	3000.00	2998.18
131	Methyl Acrylate	55	3.683	3.683	(0.882)	563933	150.000	151.24
133	Ethyl Acrylate	55	5.377	5.377	(1.287)	1263502	150.000	160.82
136	n-Hexane	57	2.768	2.768	(0.663)	525312	150.000	98.41
139	Diethyl ether	59	1.756	1.756	(0.420)	319485	150.000	132.43
148	Tert-butyl alcohol	59	2.427	2.427	(0.581)	1049842	3000.00	2784.53
149	Isopropyl alcohol	45	2.093	2.093	(0.501)	588937	3000.00	2923.27
156	Diisopropyl ether	45	2.997	2.997	(0.717)	1507494	150.000	134.87
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	1120935	150.000	156.59
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	2095307	150.000	147.25
167	Ethanol	45	1.700	1.700	(0.407)	82527	3000.00	2555.91
172	tert-Butyl formate	59	4.616	4.616	(1.105)	850071	300.000	289.78(A)
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	1139904	3000.00	2739.47
174	tert-Amyl methyl ether	73	4.665	4.665	(1.117)	1735204	150.000	134.69
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.808)	1615721	150.000	138.00
176	tert-Amyl alcohol	59	4.616	4.616	(1.105)	850071	3000.00	2759.10
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	2309789	3000.00	2823.53
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	1120935	150.000	(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	379473	150.000	155.42
152	Amyl alcohol	42	6.899	6.899	(0.900)	299929	3000.00	3081.83
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	633511	150.000	142.03
159	Propylene oxide	43	1.801	1.801	(0.431)	46947	300.000	209.02(M)
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	293949	3000.00	3119.05
162	Butyl acrylate	55	8.249	8.249	(1.076)	1162675	150.000	145.87
182	Epichlorohydrin	57	6.093	6.093	(1.227)	178760	600.000	559.09
M 94	1,2-Dichloroethylene (total)	96				967312	300.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	1026967	150.000	158.75
130	Ethyl Acetate	43	3.653	3.653	(0.874)	505997	150.000	136.07
134	Cyclohexanone	55	8.642	8.642	(0.894)	463882	3000.00	2632.48
185	Isoprene	39	1.771	1.771	(0.424)	103972	150.000	150.54
188	Isopropyl acetate	43	4.672	4.672	(0.941)	1386824	150.000	136.65
187	n-Amyl acetate	43	8.451	8.451	(1.102)	984651	150.000	146.84

189 n-Butyl acetate	43	7.210	7.210 (0.940)	861499	150.000	150.64(H)
150 Allyl alcohol	57	2.768	2.768 (0.663)	525312	3000.00	1965.60

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.212	1.212	(0.290)	122135	600.000	570.08(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	1201062	150.000	140.75
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	1183481	150.000	167.36
202 Isobutylene	41	1.239	1.239	(0.297)	44113	150.000	147.39(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	745586	150.000	170.21

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031710.D
Inj Date : 17-MAR-2023 14:37
InstruID : voa6.i
LabSampID : VSTD150

Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
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AREA
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HEIGHT
0
30-Mar-2023
12:34
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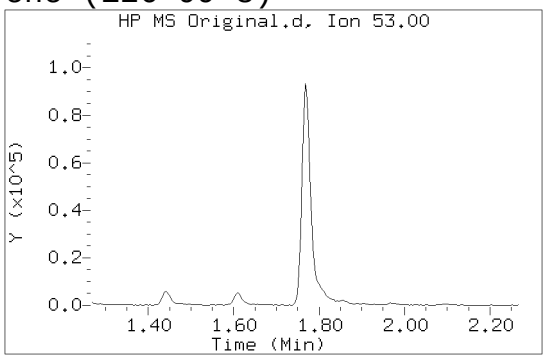
pham



AFTER

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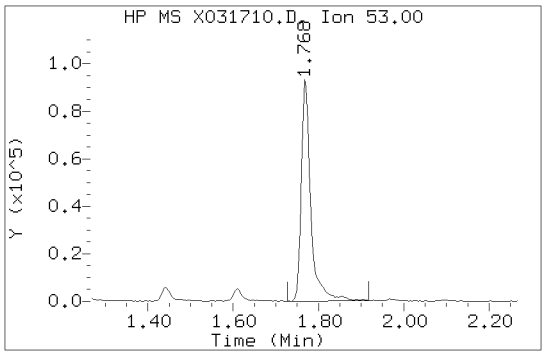

BEFORE

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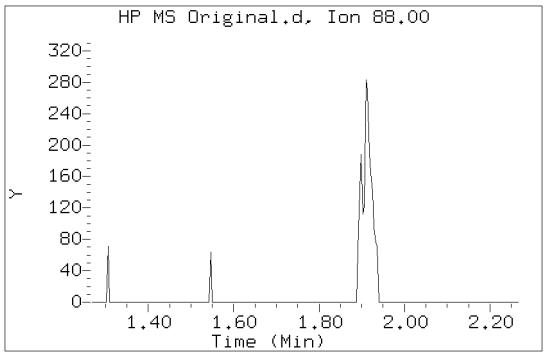

AFTER

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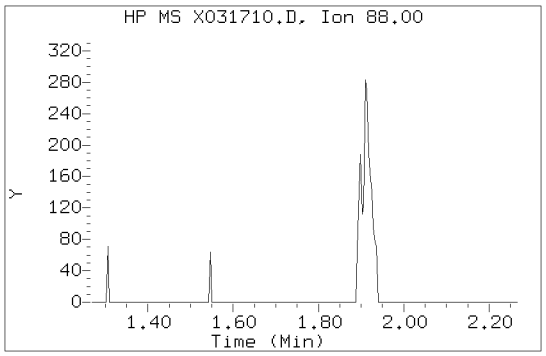

Propylene oxide ()

Reason Code:

BEFORE

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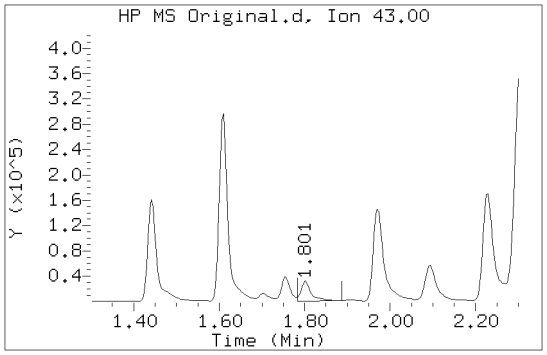

AFTER

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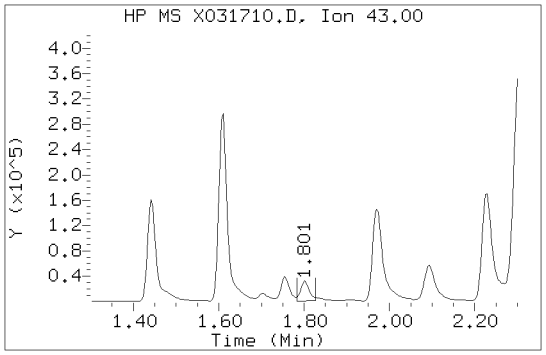

BEFORE

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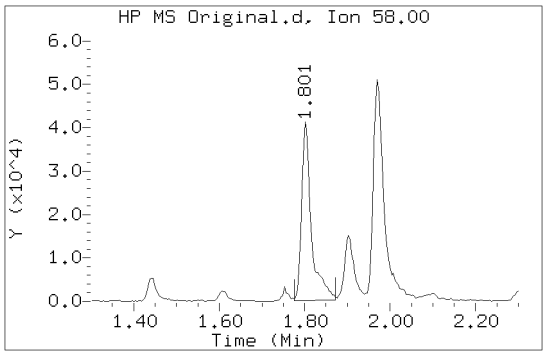

AFTER

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HEIGHT
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30-Mar-2023
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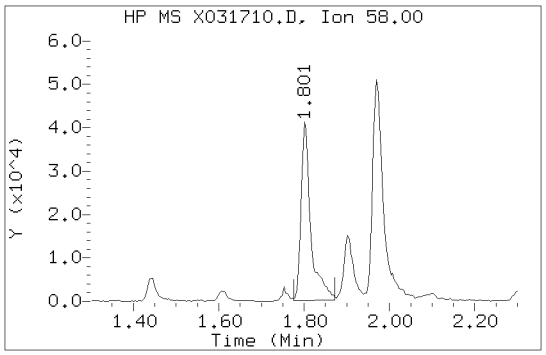

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Inj Date : 17-MAR-2023 14:37
InstruID : voa6.i
LabSampID : VSTD150

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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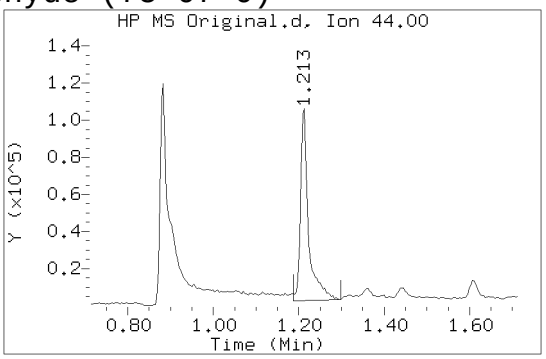

AFTER

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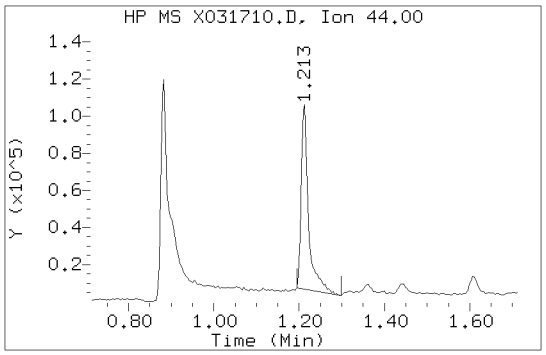

BEFORE

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30-Mar-2023
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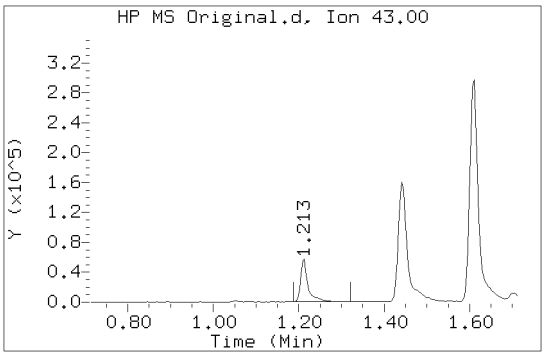

AFTER

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HEIGHT
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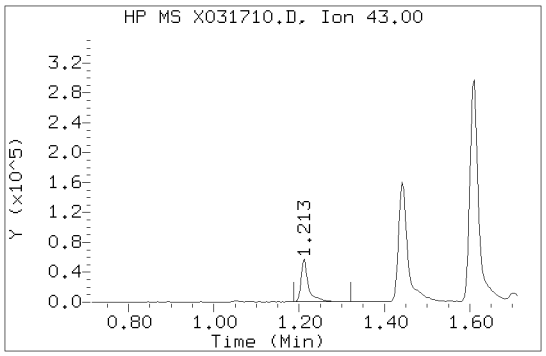

BEFORE

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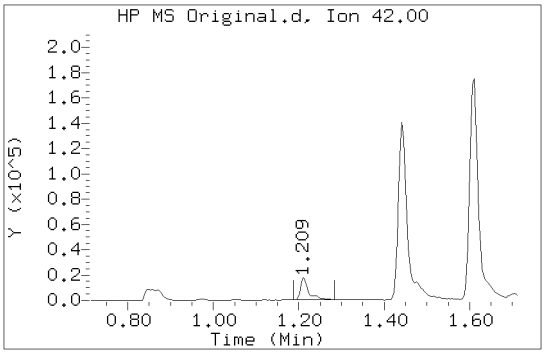

AFTER

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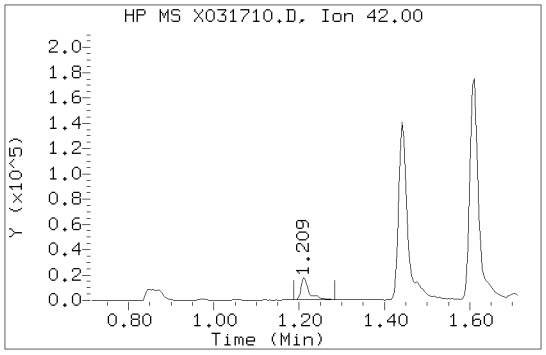

Isobutylene (115-11-7)

Reason Code:

BEFORE

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HEIGHT
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30-Mar-2023
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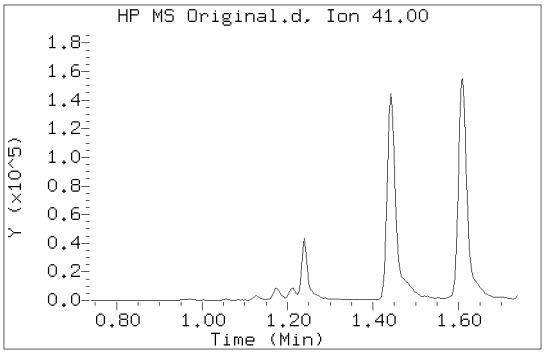

AFTER

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12:41
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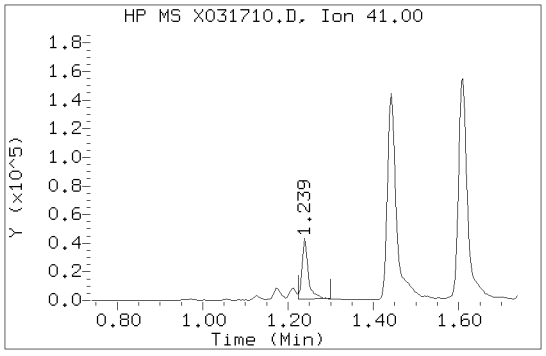

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Inj Date : 17-MAR-2023 14:37
InstruID : voa6.i
LabSampID : VSTD150

Isobutylene (115-11-7)

Reason Code:

BEFORE
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HEIGHT
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30-Mar-2023
12:34
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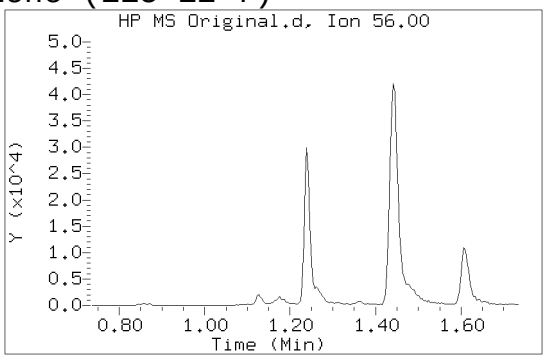

AFTER
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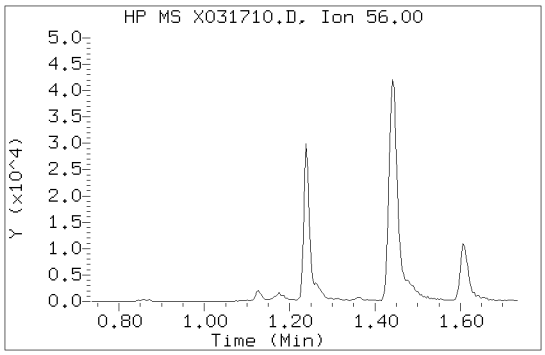

BEFORE
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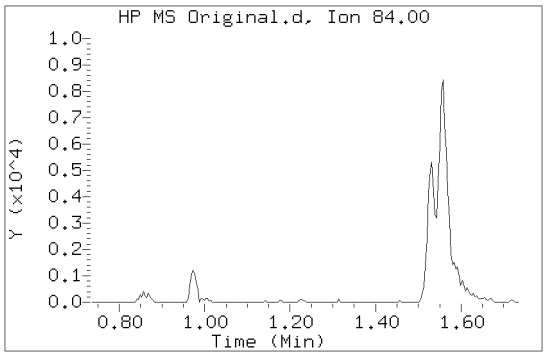

AFTER
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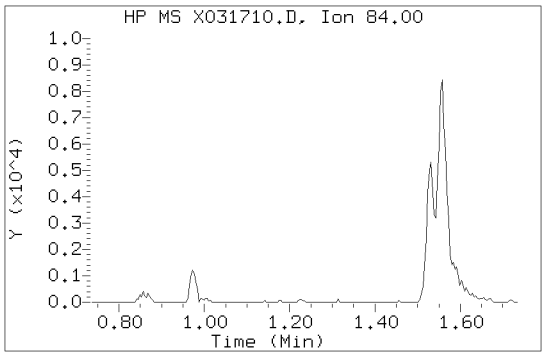

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Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031711.D
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Inj Date : 17-MAR-2023 14:58
Operator : PC Inst ID: voa6.i
Smp Info : VSTD200;VSTD200;1;10;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 14:37 Cal File: X031710.D
Als bottle: 12 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.174	4.174	(1.000)	382623	50.0000	
	2 Dichlorodifluoromethane	85	0.972	0.972	(0.233)	508155	200.000	171.49
	3 Chloromethane	50	1.077	1.077	(0.258)	747416	200.000	212.36(A)
	4 Propionitrile	54	3.649	3.649	(0.874)	1060690	2000.00	1967.42
	5 Vinyl Chloride	62	1.141	1.141	(0.273)	609345	200.000	202.19(A)
	6 Bromomethane	94	1.332	1.332	(0.319)	322590	200.000	186.17
	7 Chloroethane	64	1.400	1.400	(0.335)	364656	200.000	170.61
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	727031	200.000	203.38(A)
	9 Acrolein	56	1.441	1.441	(0.345)	87434	400.000	392.68
	10 Acetone	43	1.970	1.970	(0.472)	386486	400.000	400.87(A)
	11 1,1-Dichloroethene	96	1.910	1.910	(0.458)	428270	200.000	186.39
	12 Isobutyl Alcohol	43	4.672	4.672	(1.119)	2338866	4000.00	4480.35(A)
	13 Acetonitrile	39	2.194	2.194	(0.526)	701809	2000.00	1970.78
	14 Allyl Chloride	41	2.194	2.194	(0.526)	1676095	200.000	190.28
	15 Iodomethane	142	2.026	2.026	(0.485)	1450729	400.000	392.56
	16 Acrylonitrile	53	2.528	2.528	(0.606)	532477	400.000	417.02(A)
	17 Methylene Chloride	84	2.299	2.299	(0.551)	711938	200.000	195.16
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.607)	2152991	200.000	177.95
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	3489173	400.000	413.30(A)
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	599454	200.000	184.97

21 Vinyl Acetate	43	2.993	2.993 (0.717)	3897625	400.000	399.13
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	1123384	200.000	191.40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	1.767	1.767	(0.423)	196404	200.000	187.17(M)
24	2-Butanone	43	3.570	3.570	(0.855)	597331	400.000	436.01(A)
25	Methacrylonitrile	41	3.814	3.814	(0.914)	701077	200.000	198.80(a)
26	2,2-Dichloropropane	77	3.507	3.507	(0.840)	905769	200.000	196.64
27	cis-1,2-Dichloroethene	96	3.522	3.522	(0.844)	740213	200.000	188.74
28	Chloroform	83	3.900	3.900	(0.934)	1193616	200.000	183.23
29	Bromochloromethane	128	3.788	3.788	(0.908)	405212	200.000	182.58
$ 30	Dibromofluoromethane	113	4.095	4.095	(0.981)	702510	200.000	199.31
31	1,1,1-Trichloroethane	97	4.080	4.080	(0.978)	985300	200.000	202.26(A)
32	1,1-Dichloropropene	75	4.275	4.275	(0.862)	929663	200.000	203.52(A)
33	1,2-Dichloroethane	62	4.552	4.552	(0.918)	1038702	200.000	195.17
34	Carbon Tetrachloride	117	4.260	4.260	(0.859)	870574	200.000	199.09
$ 35	1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	874210	200.000	208.52(A)
* 36	1,4-Difluorobenzene	114	4.961	4.961	(1.000)	640185	50.0000	
37	Benzene	78	4.507	4.507	(0.909)	3052433	200.000	193.90
38	Trichloroethene	130	5.201	5.201	(1.048)	835702	200.000	197.09
39	Bromodichloromethane	83	5.722	5.722	(1.153)	1118953	200.000	200.24(A)
40	Methyl Methacrylate	41	5.602	5.602	(1.342)	750946	200.000	220.10(A)
41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	728191	400.000	428.62(A)
42	1,2-Dichloropropane	63	5.433	5.433	(1.095)	833776	200.000	196.54
43	2-Nitropropane	43	5.966	5.966	(1.429)	271652	200.000	226.13(AH)
44	Dibromomethane	93	5.550	5.550	(1.119)	523396	200.000	193.42
45	4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	1658099	400.000	427.93(A)
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	1474080	200.000	208.85(A)
* 47	Chlorobenzene-d5	117	7.667	7.667	(1.000)	612379	50.0000	
$ 48	Toluene-d8	98	6.385	6.385	(0.833)	2796978	200.000	184.24
49	Ethyl Methacrylate	69	6.715	6.715	(1.354)	978643	200.000	207.65
50	Toluene	91	6.445	6.445	(0.841)	3187867	200.000	198.41
51	trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	1252849	200.000	213.82(A)
52	2-Hexanone	43	7.086	7.086	(0.924)	1164187	400.000	437.78(A)
53	1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	673694	200.000	192.86
54	1,3-Dichloropropane	76	6.981	6.981	(0.911)	1376622	200.000	198.29
55	Dibromochloromethane	129	7.173	7.173	(0.935)	1002838	200.000	203.22(A)
56	Tetrachloroethene	164	6.925	6.925	(0.903)	638334	200.000	198.19
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	878199	200.000	203.39(A)
58	1-Chlorohexane	55	7.694	7.694	(1.551)	638798	200.000	201.88(A)
59	Chlorobenzene	112	7.694	7.694	(1.003)	2272370	200.000	197.91
60	1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	910994	200.000	205.89(A)
61	Ethylbenzene	106	7.799	7.799	(1.017)	1107853	200.000	196.05
62	m,p-Xylenes	106	7.904	7.904	(1.031)	2838121	400.000	399.10
63	o-Xylene	106	8.241	8.241	(1.075)	1395031	200.000	195.22
64	Styrene	104	8.256	8.256	(1.077)	2393440	200.000	202.70(A)
66	Bromoform	173	8.410	8.410	(1.097)	724955	200.000	212.46(A)
67	Isopropylbenzene	105	8.560	8.560	(1.116)	3313382	200.000	202.45(A)
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	1195955	200.000	204.13(A)
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	1161000	200.000	200.79(A)
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	336227	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	864319	200.000	196.30
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	309734	200.000	225.33(A)
73	n-Propylbenzene	91	8.912	8.912	(0.922)	3859840	200.000	206.55(A)
74	Bromobenzene	156	8.803	8.803	(0.911)	1119674	200.000	207.13(A)
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	2992359	200.000	206.45(A)

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	2505512	200.000	199.41
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	2968864	200.000	209.64(A)

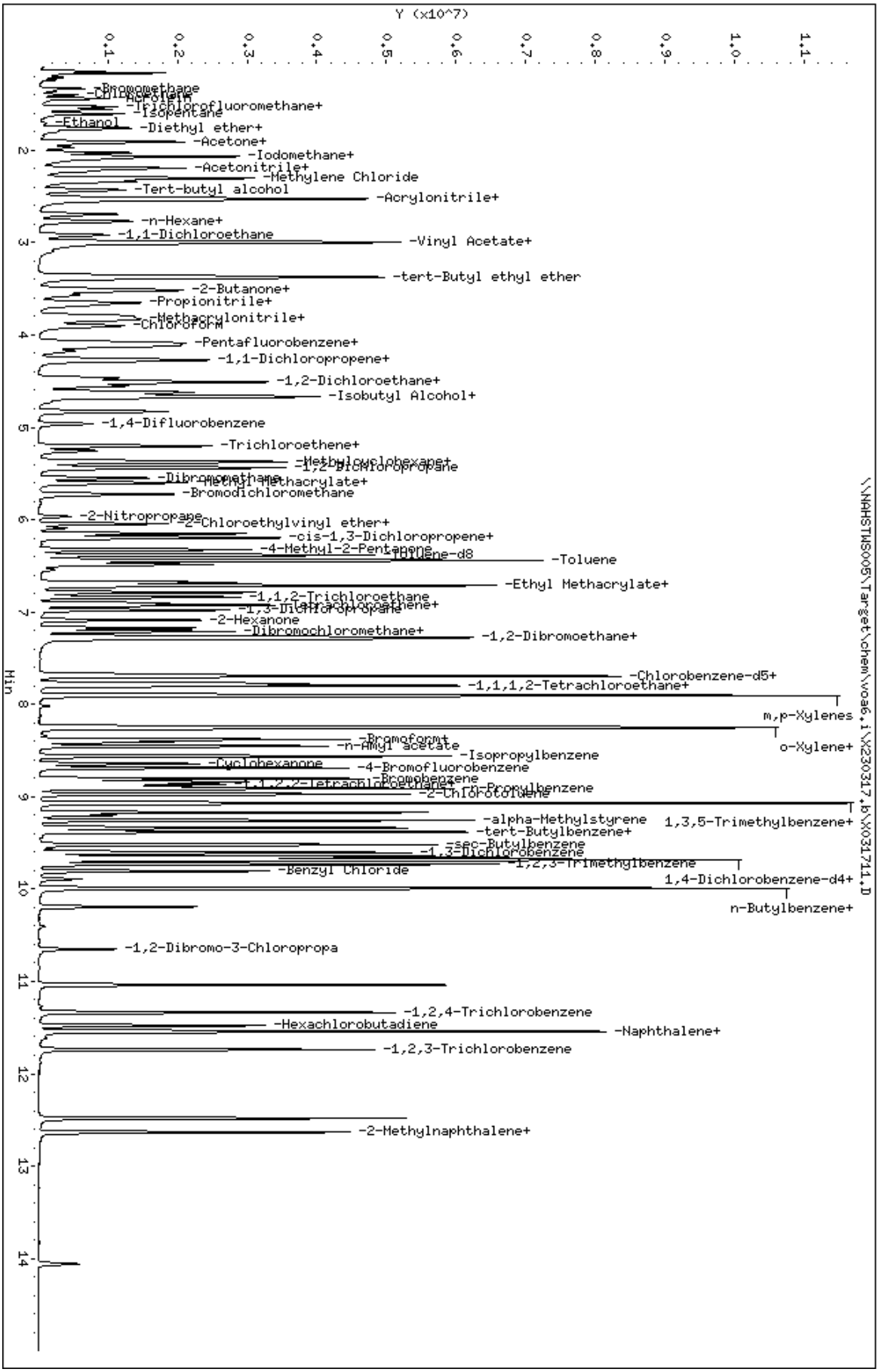
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	2279547	200.000	197.45
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	2919311	200.000	196.38
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	3349438	200.000	214.06(A)
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	3003074	200.000	215.08(A)
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	1888740	200.000	202.01(A)
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	1970060	200.000	196.05
86	Benzyl Chloride	91	9.808	9.808	(1.279)	2013195	200.000	202.61(A)
87	n-Butylbenzene	91	9.992	9.992	(1.034)	2523960	200.000	224.29(A)
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	1856903	200.000	198.57
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.102)	226912	200.000	205.56(A)
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	1440571	200.000	210.71(A)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	573515	200.000	171.65
92	Naphthalene	128	11.540	11.540	(1.194)	3504081	200.000	213.55(A)
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	1347744	200.000	206.01(A)
146	Methyl acetate	43	2.224	2.224	(0.533)	464224	200.000	211.08(A)
138	Freon TF	101	1.910	1.910	(0.458)	434707	200.000	175.10
141	Cyclohexane	56	4.121	4.121	(0.987)	901709	200.000	185.25
142	Tetrahydrofuran	42	3.840	3.840	(0.920)	246866	400.000	395.10
147	Methylcyclohexane	55	5.377	5.377	(1.084)	2015199	200.000	227.98(A)
135	1,4-Dioxane	88	5.602	5.602	(1.342)	215437	4000.00	4243.34(A)
132	n-Butanol	56	5.253	5.253	(1.259)	490231	4000.00	4828.66(A)
131	Methyl Acrylate	55	3.679	3.679	(0.881)	865912	200.000	218.52(A)
133	Ethyl Acrylate	55	5.377	5.377	(1.288)	2015199	200.000	241.35(A)
136	n-Hexane	57	2.768	2.768	(0.663)	676168	200.000	80.35
139	Diethyl ether	59	1.756	1.756	(0.421)	465264	200.000	181.47
148	Tert-butyl alcohol	59	2.431	2.431	(0.582)	1646951	4000.00	4110.24(A)
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	904875	4000.00	4226.17(A)
156	Diisopropyl ether	45	2.997	2.997	(0.718)	2153852	200.000	181.31
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	1815775	200.000	223.84(A)
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	3136262	200.000	194.50
167	Ethanol	45	1.703	1.703	(0.408)	115616	4000.00	3369.19
172	tert-Butyl formate	59	4.620	4.620	(1.107)	1512520	400.000	485.15(A)
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	1974305	4000.00	4183.91(A)
174	tert-Amyl methyl ether	73	4.665	4.665	(1.118)	2849607	200.000	208.13(A)
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.809)	2317574	200.000	186.26
176	tert-Amyl alcohol	59	4.620	4.620	(1.107)	1512520	4000.00	4619.26(A)
151	4-Methyl-2-pentanol	45	6.715	6.715	(1.354)	4066831	4000.00	4352.23(A)
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	1815775	200.000	(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	513913	200.000	198.05
152	Amyl alcohol	42	6.899	6.899	(0.900)	541570	4000.00	4906.99(A)
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	872859	200.000	184.14
159	Propylene oxide	43	1.801	1.801	(0.432)	67647	400.000	283.39(M)
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	514576	4000.00	4814.71(A)
162	Butyl acrylate	55	8.249	8.249	(1.076)	1894255	200.000	209.56(A)
182	Epichlorohydrin	57	6.093	6.093	(1.228)	300828	800.000	823.70(A)
M 94	1,2-Dichloroethylene (total)	96				1339667	400.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	1552688	200.000	211.81(A)
130	Ethyl Acetate	43	3.649	3.649	(0.874)	758155	200.000	191.84
134	Cyclohexanone	55	8.642	8.642	(0.894)	768170	4000.00	3846.88
185	Isoprene	39	1.767	1.767	(0.423)	145984	200.000	198.89
188	Isopropyl acetate	43	4.672	4.672	(0.942)	2339721	200.000	201.84(A)
187	n-Amyl acetate	43	8.451	8.451	(1.102)	1694710	200.000	222.86(A)

189 n-Butyl acetate	43	7.210	7.210 (0.940)	1490673	200.000	229.84(AH)
150 Allyl alcohol	57	2.768	2.768 (0.663)	676168	4000.00	1601.42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.212	1.212	(0.291)	184725	800.000	811.65(AM)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	2015999	200.000	208.34
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	1807738	200.000	225.43(A)
202 Isobutylene	41	1.239	1.239	(0.297)	67118	200.000	211.01(AM)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	1134482	200.000	228.55(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031711.D
Inj Date : 17-MAR-2023 14:58
InstruID : voa6.i
LabSampID : VSTD200

Chloroprene (126-99-8)

Reason Code:

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30-Mar-2023
12:34
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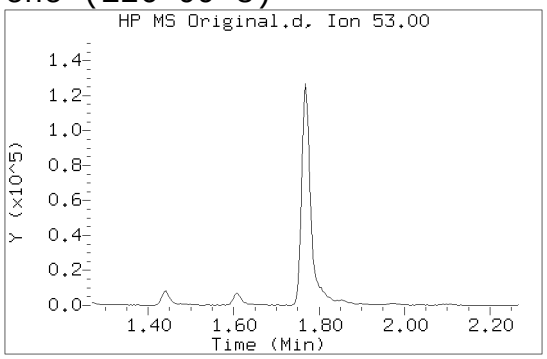
pham



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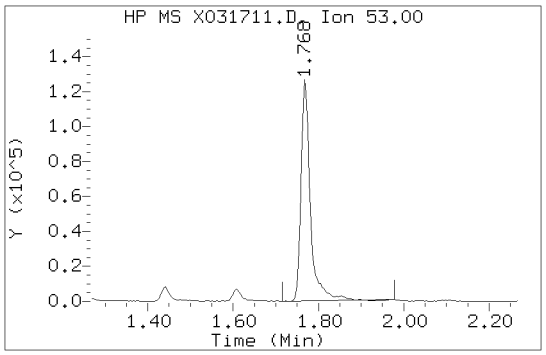

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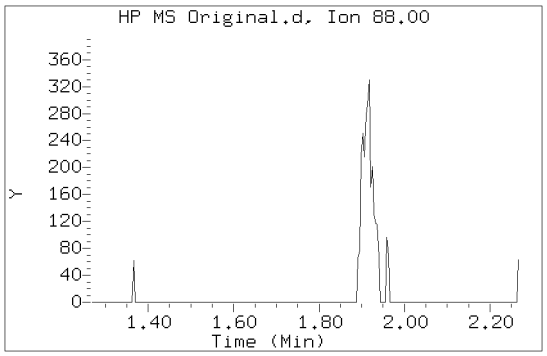

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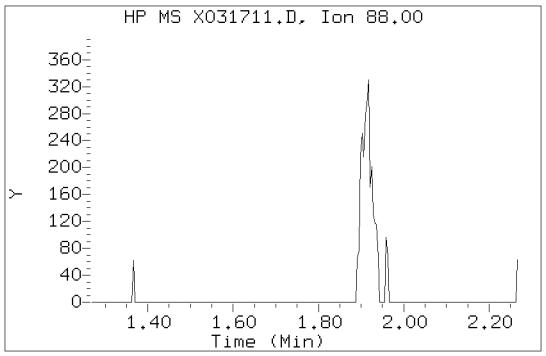

Propylene oxide ()

Reason Code:

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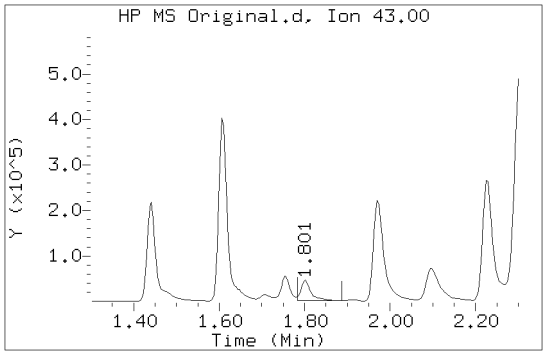

AFTER
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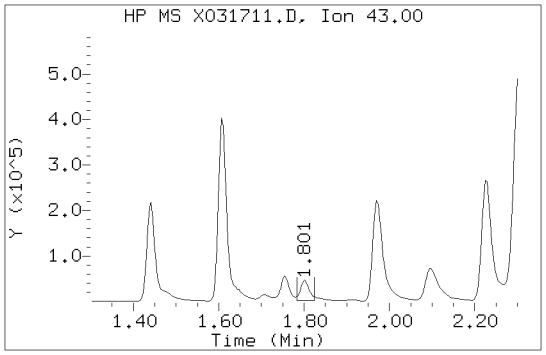

BEFORE
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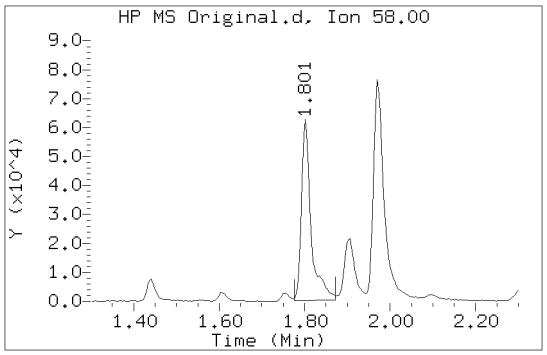

AFTER
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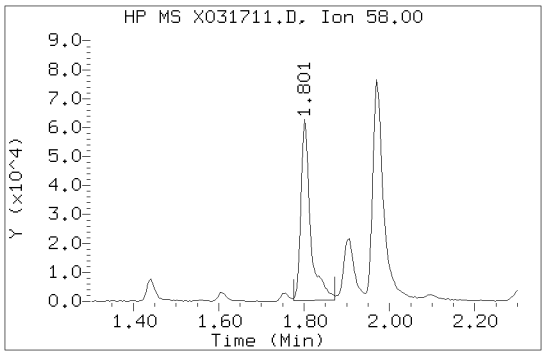

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InstruID : voa6.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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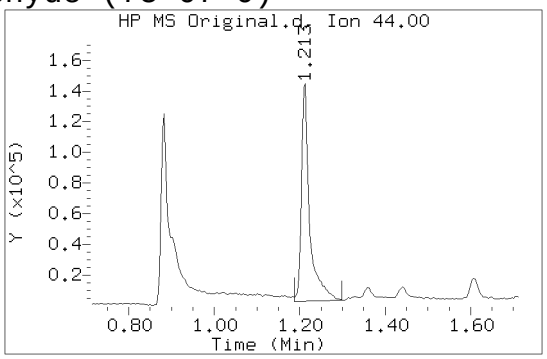

AFTER

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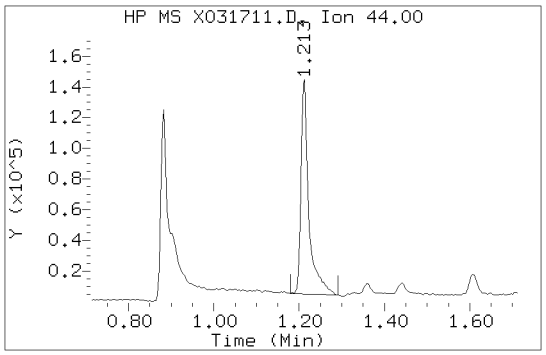

BEFORE

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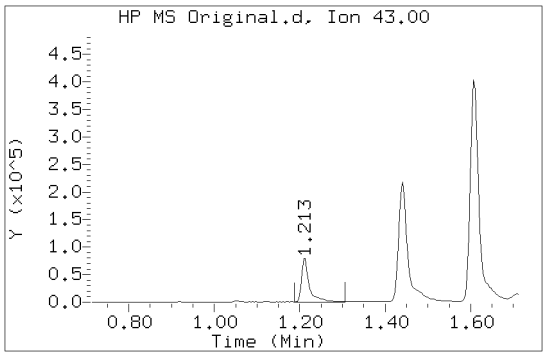

AFTER

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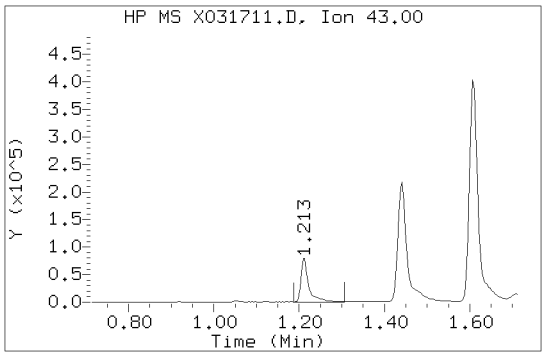

BEFORE

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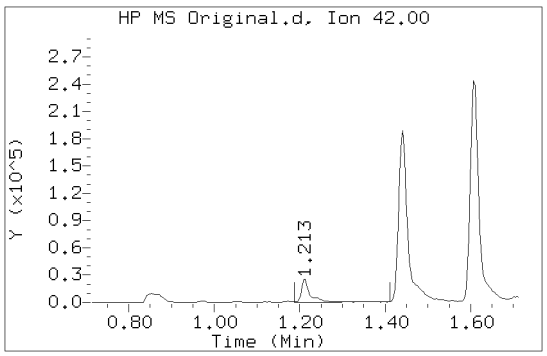

AFTER

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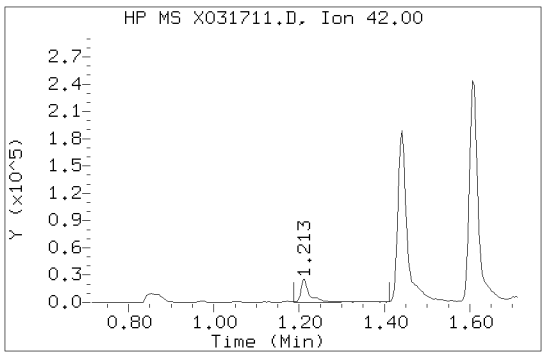

Isobutylene (115-11-7)

Reason Code:

BEFORE

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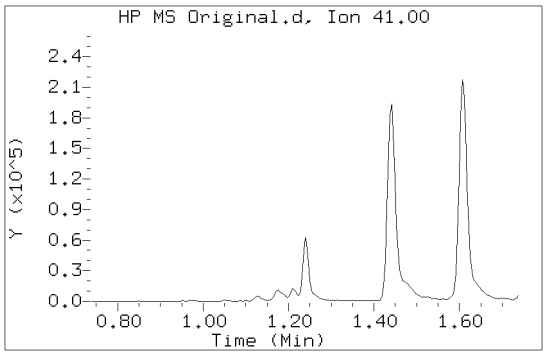

AFTER

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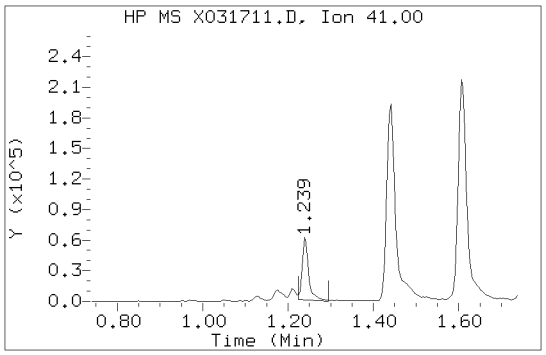

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Inj Date : 17-MAR-2023 14:58
InstruID : voa6.i
LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

BEFORE
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HEIGHT
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30-Mar-2023
12:34
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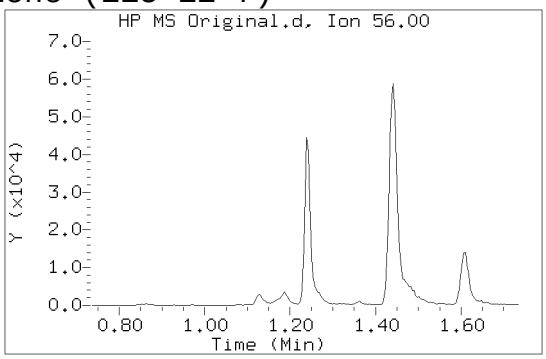

AFTER
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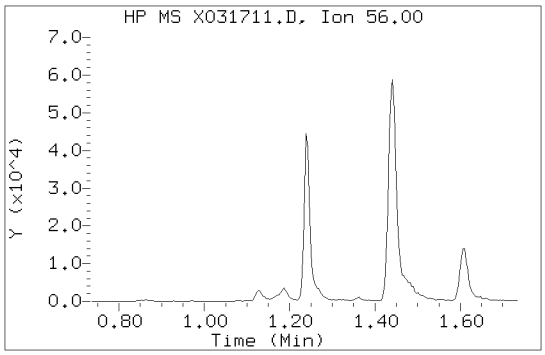

BEFORE
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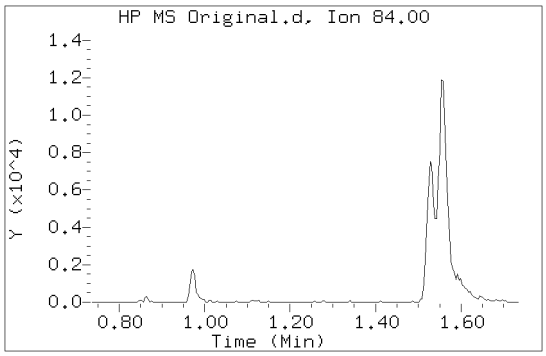

AFTER
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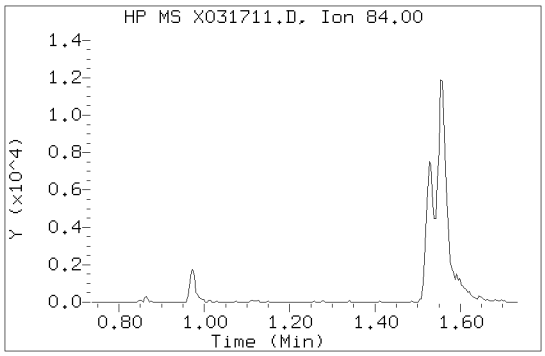

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Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031713.D
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Inj Date : 17-MAR-2023 15:40
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;ICV
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 14:58 Cal File: X031711.D
Als bottle: 14 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.174	(1.000)	447337	50.0000	
2 Dichlorodifluoromethane	85	0.973	0.972	(0.233)	125229	41.3548	41.35
3 Chloromethane	50	1.077	1.077	(0.258)	189515	46.0566	46.05
4 Propionitrile	54	3.645	3.649	(0.873)	300803	477.229	477.22
5 Vinyl Chloride	62	1.141	1.141	(0.273)	160708	45.6115	45.61
6 Bromomethane	94	1.340	1.332	(0.321)	105837	52.2437	52.24
7 Chloroethane	64	1.404	1.400	(0.336)	106611	42.6655	42.66
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	184888	44.2396	44.23
9 Acrolein	56	1.445	1.441	(0.346)	21974	86.8596	86.85
10 Acetone	43	1.970	1.970	(0.472)	134726	115.876	115.87
11 1,1-Dichloroethene	96	1.913	1.910	(0.458)	111784	41.6123	41.61
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	646931	1059.99	1059.98
13 Acetonitrile	39	2.195	2.194	(0.525)	199524	479.239	479.23
14 Allyl Chloride	41	2.195	2.194	(0.525)	462527	44.9148	44.91
15 Iodomethane	142	2.026	2.026	(0.485)	308789	98.1689	98.16
16 Acrylonitrile	53	2.532	2.528	(0.606)	145802	97.6701	97.67
17 Methylene Chloride	84	2.303	2.299	(0.551)	200013	45.5833	45.58
18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	635231	44.9099	44.90
19 Carbon Disulfide	76	2.067	2.067	(0.495)	808321	81.8970	81.89
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	161777	42.6982	42.69

21 Vinyl Acetate	43	2.993	2.993 (0.716)	1190970	104.317	104.31
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	303151	44.1784	44.17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	1.771	1.767	(0.424)	51295	41.8136	41.81(M)
	24 2-Butanone	43	3.574	3.570	(0.856)	172251	107.543	107.54
	25 Methacrylonitrile	41	3.821	3.814	(0.915)	208141	50.4845	50.48(a)
	26 2,2-Dichloropropane	77	3.510	3.507	(0.840)	245945	45.4765	45.47
	27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	198010	43.1856	43.18
	28 Chloroform	83	3.904	3.900	(0.935)	354779	46.5832	46.58
	29 Bromochloromethane	128	3.791	3.788	(0.908)	116267	44.8093	44.80
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	222095	53.3323	53.33
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	260399	45.7219	45.72
	32 1,1-Dichloropropene	75	4.279	4.275	(0.862)	216942	44.6577	44.65
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	301577	53.2827	53.28
	34 Carbon Tetrachloride	117	4.264	4.260	(0.859)	200181	43.0463	43.04
$	35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	260640	53.9569	53.95
*	36 1,4-Difluorobenzene	114	4.965	4.961	(1.000)	680845	50.0000	
	37 Benzene	78	4.507	4.507	(0.908)	782401	46.7344	46.73
	38 Trichloroethene	130	5.205	5.201	(1.048)	192215	42.6262	42.62
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	302269	50.8638	50.86
	40 Methyl Methacrylate	41	5.602	5.602	(1.341)	204589	51.2910	51.29
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	192610	106.604	106.60
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	218132	48.3489	48.34
	43 2-Nitropropane	43	5.966	5.966	(1.428)	74170	52.8113	52.81
	44 Dibromomethane	93	5.550	5.550	(1.118)	146234	50.8144	50.81
	45 4-Methyl-2-Pentanone	43	6.322	6.325	(0.824)	442523	103.091	103.09
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	383752	51.1256	51.12
*	47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	678434	50.0000	
$	48 Toluene-d8	98	6.386	6.385	(0.833)	830535	49.3824	49.38
	49 Ethyl Methacrylate	69	6.708	6.715	(1.351)	227831	45.4566	45.45
	50 Toluene	91	6.446	6.445	(0.841)	815198	45.7983	45.79
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	332900	53.4229	53.42
	52 2-Hexanone	43	7.083	7.086	(0.924)	309958	105.209	105.20
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	183155	47.3284	47.32
	54 1,3-Dichloropropane	76	6.982	6.981	(0.911)	377705	49.1094	49.10
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	263793	48.2534	48.25
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	151884	42.5660	42.56
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	241939	50.5793	50.57
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	142824	44.2112	44.21
	59 Chlorobenzene	112	7.690	7.694	(1.003)	586122	46.0779	46.07
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.772	(1.014)	230019	46.9252	46.92
	61 Ethylbenzene	106	7.799	7.799	(1.017)	273832	43.7423	43.74
	62 m,p-Xylenes	106	7.900	7.904	(1.030)	695067	88.2252	88.22
	63 o-Xylene	106	8.241	8.241	(1.075)	352582	44.5380	44.53
	64 Styrene	104	8.256	8.256	(1.077)	633869	48.4578	48.45
	66 Bromoform	173	8.410	8.410	(1.097)	190524	50.4021	50.40
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	776949	42.8514	42.85
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	316083	49.5811	49.58
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	337169	52.5034	52.50
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	365870	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	247298	51.6156	51.61(M)
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	78770	52.1347	52.13
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	931403	45.8038	45.80
	74 Bromobenzene	156	8.803	8.803	(0.911)	285872	48.5995	48.59
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	715245	45.3485	45.34

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	643431	47.0625	47.06
77	4-Chlorotoluene	91	9.070	9.069 (0.939)	759380	49.2796	49.27

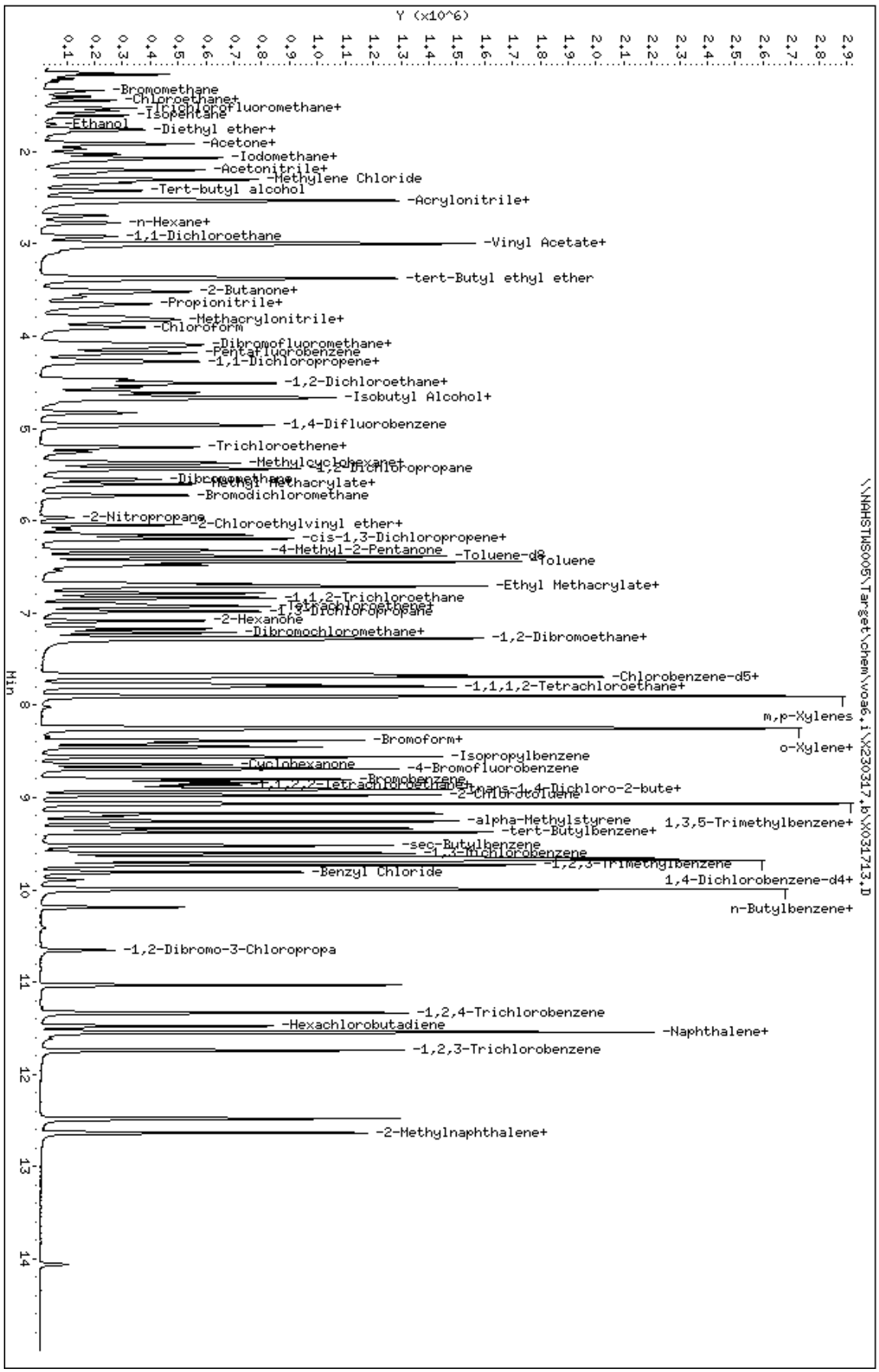
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	539588	42.9532	42.95
79	1,2,4-Trimethylbenzene	105	9.377	9.381	(0.971)	738107	45.6311	45.63
81	sec-Butylbenzene	105	9.519	9.523	(0.985)	716233	42.0655	42.06
82	p-Isopropyltoluene	119	9.647	9.651	(0.998)	680520	44.7915	44.79
83	1,3-Dichlorobenzene	146	9.602	9.606	(0.994)	474406	46.6312	46.63
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	504387	46.1290	46.12
86	Benzyl Chloride	91	9.808	9.808	(1.279)	555092	51.5864	51.58
87	n-Butylbenzene	91	9.992	9.992	(1.034)	605034	49.4104	49.41
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	498274	48.9673	48.96
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.651	(1.103)	57812	49.2619	49.26
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	381306	51.2551	51.25
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	141634	48.8975	48.89
92	Naphthalene	128	11.540	11.540	(1.194)	950722	53.2461	53.24
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	364201	51.1604	51.16
146	Methyl acetate	43	2.232	2.224	(0.534)	125629	48.8600	48.86
138	Freon TF	101	1.913	1.910	(0.458)	100166	40.8571	40.85
141	Cyclohexane	56	4.121	4.121	(0.987)	192967	40.9633	40.96
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	77686	106.349	106.34
147	Methylcyclohexane	55	5.377	5.377	(1.083)	467668	49.7485	49.74
135	1,4-Dioxane	88	5.595	5.602	(1.339)	56366	949.601	949.60
132	n-Butanol	56	5.253	5.253	(1.257)	103021	893.946	893.94
131	Methyl Acrylate	55	3.683	3.679	(0.882)	246891	53.2924	53.29
133	Ethyl Acrylate	55	5.377	5.377	(1.287)	467668	47.9091	47.90
136	n-Hexane	57	2.768	2.768	(0.663)	140253	47.0012	47.00
139	Diethyl ether	59	1.756	1.756	(0.420)	143799	47.9753	47.97
148	Tert-butyl alcohol	59	2.423	2.431	(0.580)	433912	926.243	926.24
149	Isopropyl alcohol	45	2.090	2.097	(0.500)	241695	965.524	965.52
156	Diisopropyl ether	45	2.997	2.997	(0.717)	650281	46.8236	46.82
160	2-Methylnaphthalene	142	12.635	12.634	(1.308)	488718	55.3663	55.36
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	823368	46.9270	46.92
167	Ethanol	45	1.700	1.703	(0.407)	39210	977.329	977.32
172	tert-Butyl formate	59	4.612	4.620	(1.104)	359899	98.7399	98.73
173	3,3-Dimethyl-1-butanol	57	7.285	7.289	(0.950)	478985	916.228	916.22
174	tert-Amyl methyl ether	73	4.665	4.665	(1.117)	736716	46.0245	46.02
175	tert-Butyl ethyl ether	59	3.372	3.375	(0.807)	675212	46.4157	46.41
176	tert-Amyl alcohol	59	4.612	4.620	(1.104)	359899	940.131	940.13
151	4-Methyl-2-pentanol	45	6.708	6.715	(1.351)	969092	975.165	975.16
180	1-Methylnaphthalene	142	12.635	12.634	(1.308)	488718		(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	129783	42.7804	42.78
152	Amyl alcohol	42	6.899	6.899	(0.900)	119741	979.301	979.30
158	Dichlorofluoromethane	67	1.531	1.527	(0.367)	258449	46.6365	46.63
159	Propylene oxide	43	1.801	1.801	(0.431)	28721	102.916	102.91
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	119120	1006.05	1006.04
162	Butyl acrylate	55	8.249	8.249	(1.076)	512190	51.1478	51.14
182	Epichlorohydrin	57	6.093	6.093	(1.227)	78556	202.250	202.25
M 94	1,2-Dichloroethylene (total)	96				359787	85.8838	85.88
M 95	Xylenes (total)	106				1047649	132.763	132.76
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	373878	46.8716	46.87
130	Ethyl Acetate	43	3.649	3.649	(0.873)	229301	49.6297	49.62
134	Cyclohexanone	55	8.642	8.642	(0.894)	224152	1031.57	1031.57
185	Isoprene	39	1.767	1.767	(0.423)	46906	54.6615	54.66(M)
188	Isopropyl acetate	43	4.672	4.672	(0.941)	646931	52.4764	52.47

187 n-Amyl acetate	43	8.451	8.451 (1.102)	429141	50.9400	50.94
189 n-Butyl acetate	43	7.210	7.210 (0.940)	377004	52.4708	52.47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	140253	940.463	940.46
194 Acetaldehyde	44	1.212	1.212	(0.290)	56950	213.429	213.42(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	549227	51.2328	51.23
200 Dimethyl Disulfide	94	6.194	6.198	(0.808)	465053	52.3475	52.34
202 Isobutylene	41	1.239	1.239	(0.297)	22110	59.4566	59.45(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	301168	55.7587	55.75

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Client ID: ICV
Sample Info: CCV;CCV;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 17-MAR-2023 15:40
InstruID : voa6.i
LabSampID : ICV

1,2,3-Trichloropropane (96-18-4)

BEFORE

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30-Mar-2023
12:34
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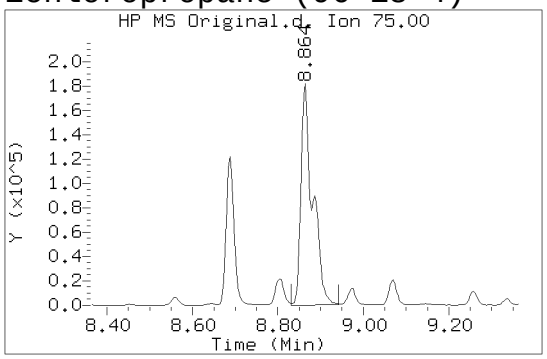

BEFORE

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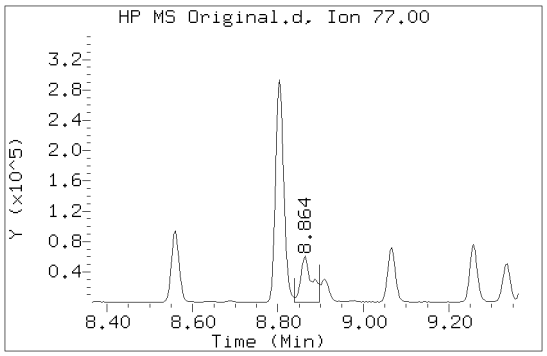

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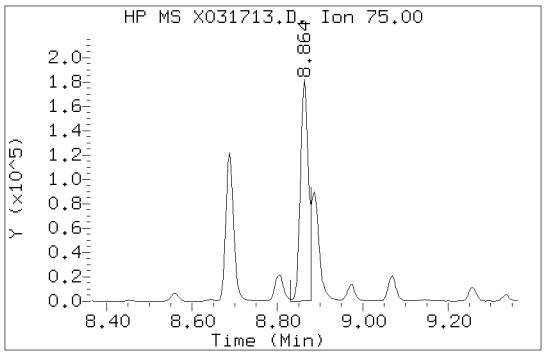

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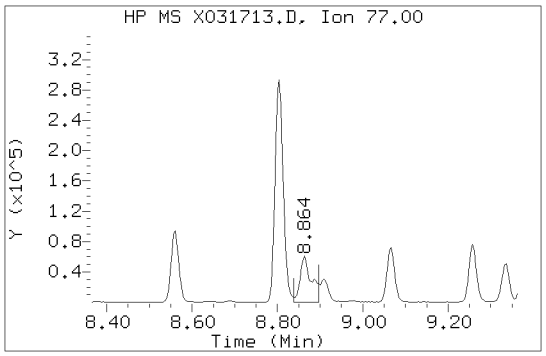

Chloroprene (126-99-8)

BEFORE

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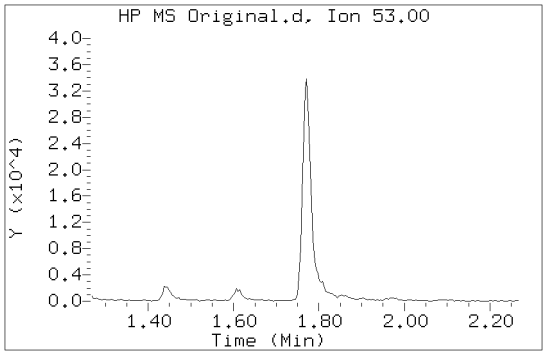

BEFORE

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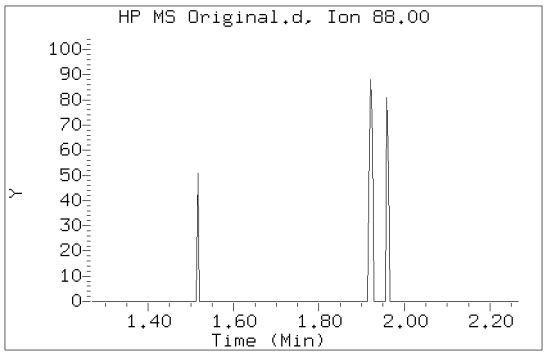

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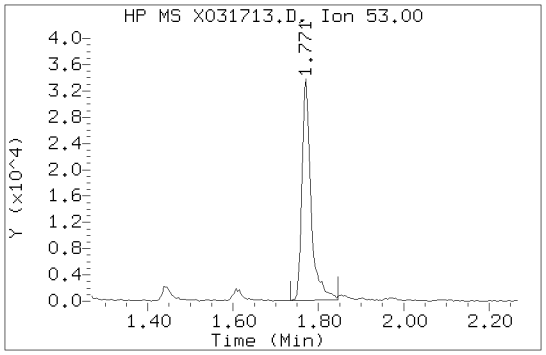

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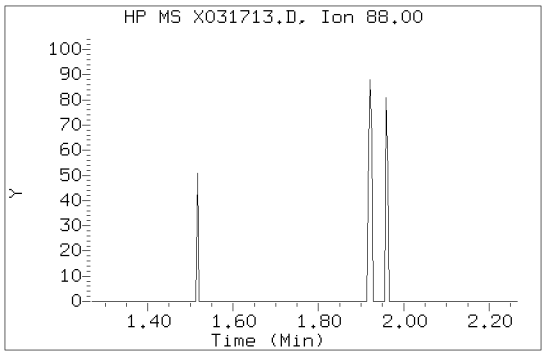

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Inj Date : 17-MAR-2023 15:40
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LabSampID : ICV

Isoprene (78-79-5)

Reason Code:

BEFORE

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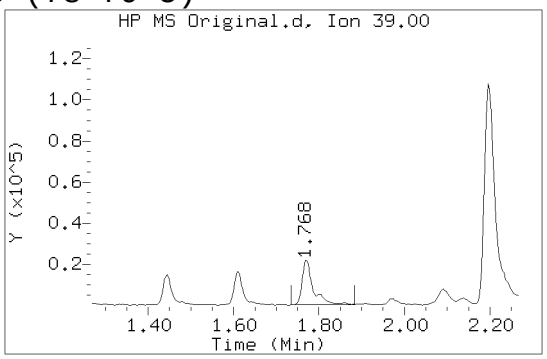

AFTER

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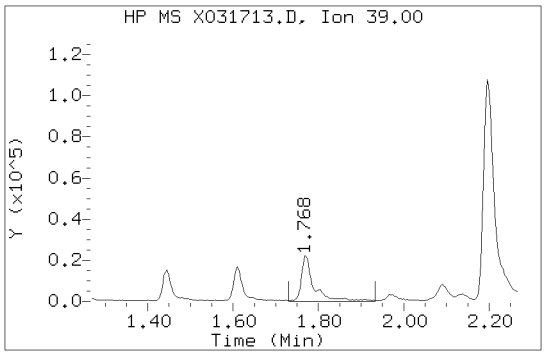

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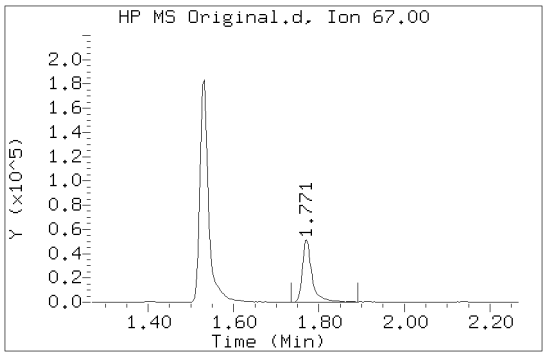

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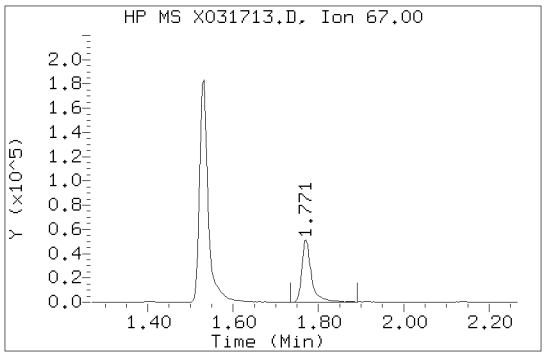

BEFORE

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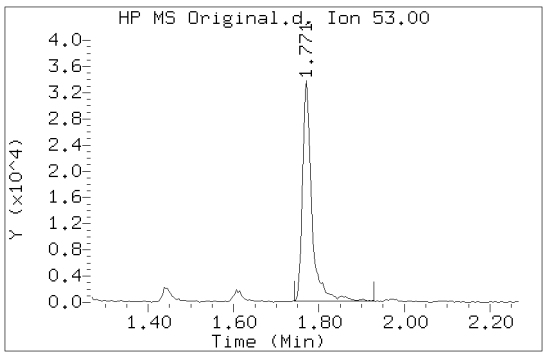

AFTER

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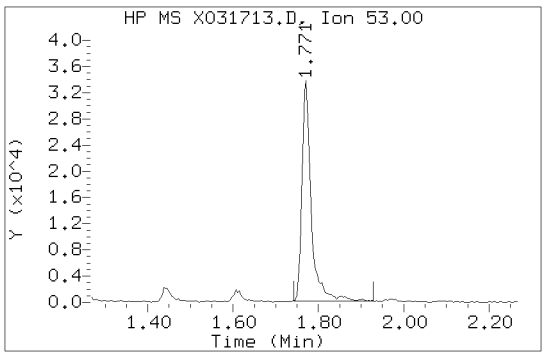

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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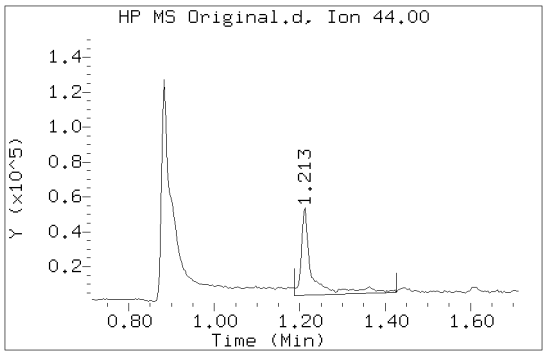
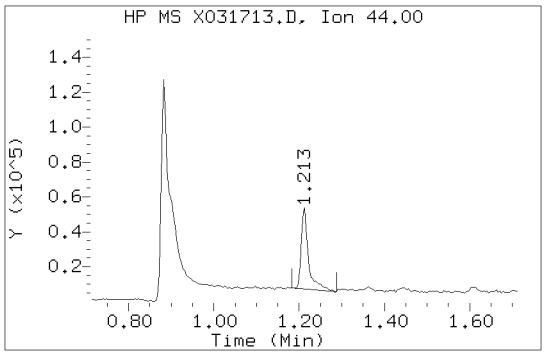
pham



AFTER

MASS
44
AREA
56950
HEIGHT
46607
30-Mar-2023
12:41
linh
pham



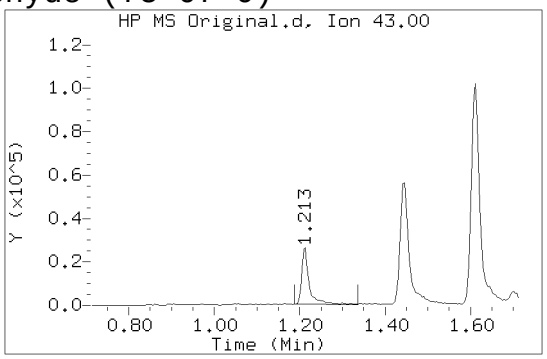
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031713.D
Inj Date : 17-MAR-2023 15:40
InstruID : voa6.i
LabSampID : ICV

Acetaldehyde (75-07-0)

Reason Code:

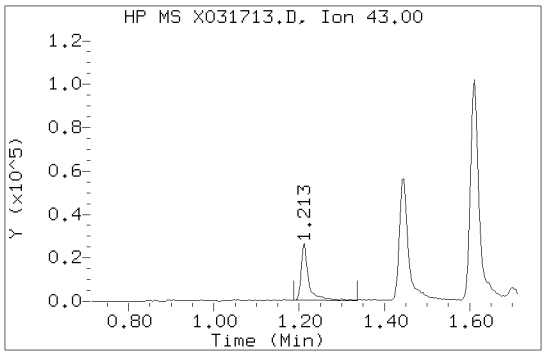
BEFORE

MASS
43
AREA
32748
HEIGHT
26025
30-Mar-2023
12:34
linh
pham



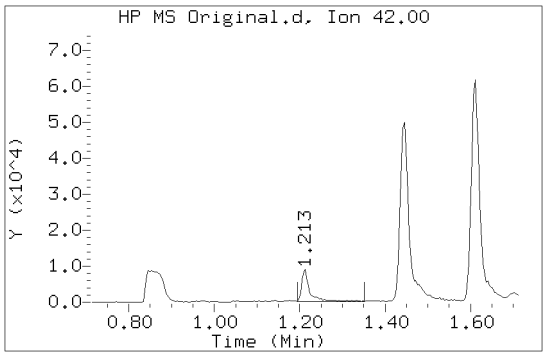
AFTER

MASS
43
AREA
32748
HEIGHT
26025
30-Mar-2023
12:41
linh
pham



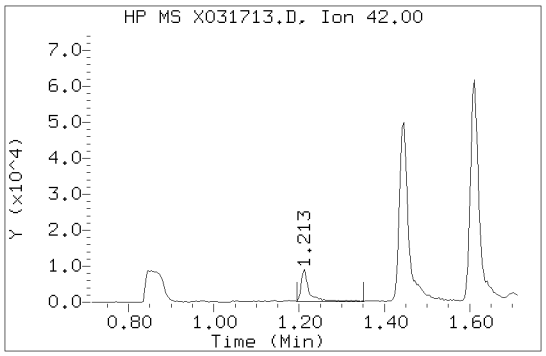
BEFORE

MASS
42
AREA
12038
HEIGHT
8969
30-Mar-2023
12:34
linh
pham



AFTER

MASS
42
AREA
12038
HEIGHT
8969
30-Mar-2023
12:41
linh
pham

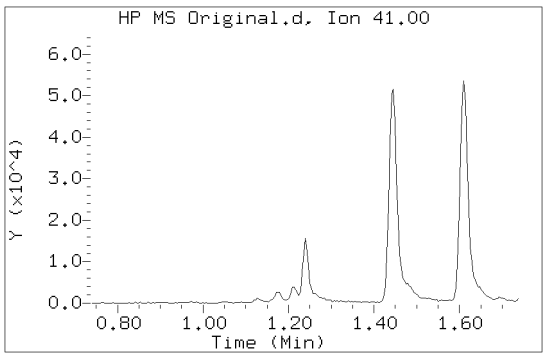


Isobutylene (115-11-7)

Reason Code:

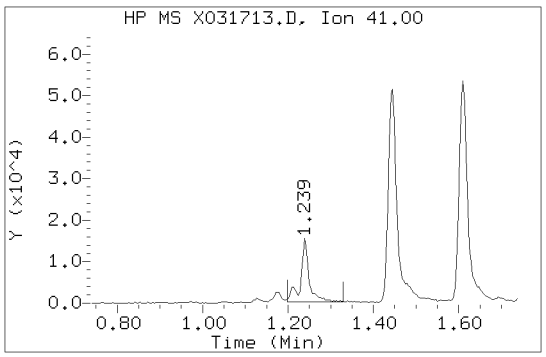
BEFORE

MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:34
linh
pham



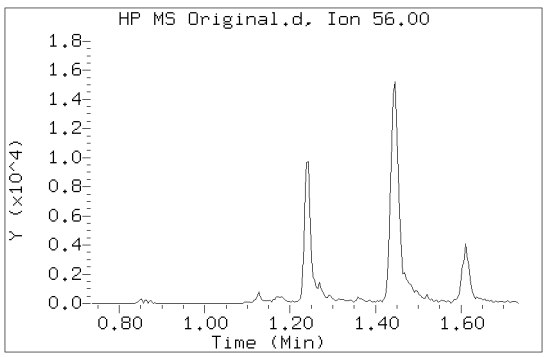
AFTER

MASS
41
AREA
22110
HEIGHT
15254
30-Mar-2023
12:41
linh
pham



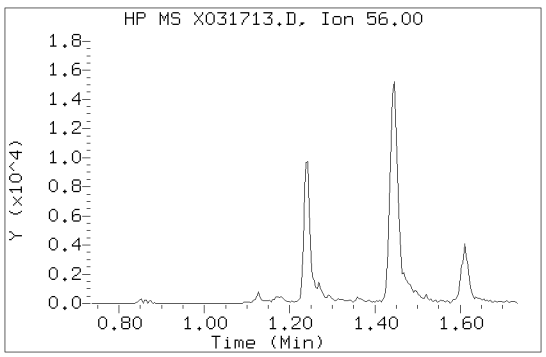
BEFORE

MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:34
linh
pham



AFTER

MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



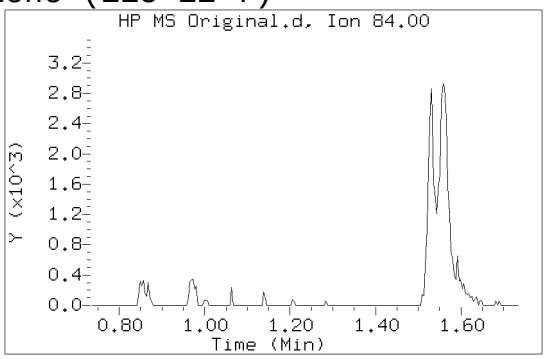
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031713.D
Inj Date : 17-MAR-2023 15:40
InstruID : voa6.i
LabSampID : ICV

Isobutylene (115-11-7)

Reason Code:

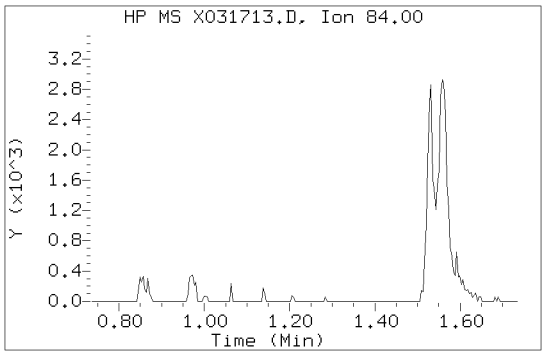
BEFORE

MASS
84
AREA
0
HEIGHT
0
30-Mar-2023
12:34
linh
pham



AFTER

MASS
84
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



01184563

right solutions.
right partner.

Raw Data VOA6 430844

Volatiles by EPA 8260

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032301.D Page 1
Report Date: 23-Mar-2023 21:09

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032301.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 23-MAR-2023 10:26
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.687	8.889	(0.000)	95	28866			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	4332			15.00- 40.00	15.01
8.687	8.889	(0.000)	75	12614			30.00- 60.00	43.70
8.687	8.889	(0.000)	96	1930			5.00- 9.00	6.69
8.687	8.889	(0.000)	173	120			0.00- 2.00	0.44
8.687	8.889	(0.000)	174	27087			50.00- 0.00	93.84
8.687	8.889	(0.000)	175	2031			5.00- 9.00	7.50
8.687	8.889	(0.000)	176	26647			95.00- 101.00	98.38
8.687	8.889	(0.000)	177	1739			5.00- 9.00	6.53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.01
75	30.00 - 60.00% of mass 95	43.70
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.42 (0.44)
174	Greater than 50.00% of mass 95	93.84
175	5.00 - 9.00% of mass 174	7.04 (7.50)
176	95.00 - 101.00% of mass 174	92.31 (98.38)
177	5.00 - 9.00% of mass 176	6.02 (6.53)

Data File: X032301.D
Spectrum: Average Spectrum: 8.643 to 8.729 min.
Location of Maximum: 95.00
Number of points: 131

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	2	68.00	2565	102.00	3	141.00	255
36.00	227	69.00	6582	103.00	51	142.00	37
37.00	1058	70.00	3378	104.00	153	143.00	197
38.00	1208	71.00	332	105.00	181	144.00	11
39.00	3079	72.00	140	106.00	118	145.00	7
40.00	1413	73.00	1059	107.00	63	146.00	42
41.00	3604	74.00	3941	108.00	9	147.00	15
42.00	7339	75.00	12614	109.00	51	148.00	57
43.00	1501	76.00	1094	110.00	14	149.00	10
44.00	679	77.00	337	111.00	5	150.00	23
45.00	399	78.00	221	112.00	7	152.00	7
46.00	19	79.00	759	113.00	20	153.00	18
47.00	296	80.00	901	114.00	8	154.00	10
48.00	134	81.00	611	115.00	48	155.00	79
49.00	936	82.00	135	116.00	90	157.00	51
50.00	4332	83.00	1435	117.00	161	158.00	5
51.00	1630	84.00	61	118.00	80	159.00	26
52.00	210	85.00	75	119.00	119	161.00	22
53.00	559	86.00	35	120.00	17	168.00	5
54.00	941	87.00	1226	122.00	2	170.00	5
55.00	12234	88.00	1230	124.00	6	171.00	3
56.00	1828	89.00	60	125.00	2	172.00	8
57.00	927	90.00	65	127.00	24	173.00	120
58.00	186	91.00	159	128.00	138	174.00	27080
59.00	53	92.00	709	129.00	59	175.00	2031
60.00	197	93.00	1005	130.00	90	176.00	26640
61.00	1068	94.00	2959	131.00	38	177.00	1739
62.00	1143	95.00	28864	134.00	9	178.00	38
63.00	948	96.00	1930	135.00	30	186.00	144
64.00	121	97.00	503	136.00	6	234.00	9
65.00	148	98.00	6659	137.00	46	262.00	2
66.00	94	99.00	430	139.00	15	278.00	7
67.00	230	100.00	24	140.00	19		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032301.D Page 1

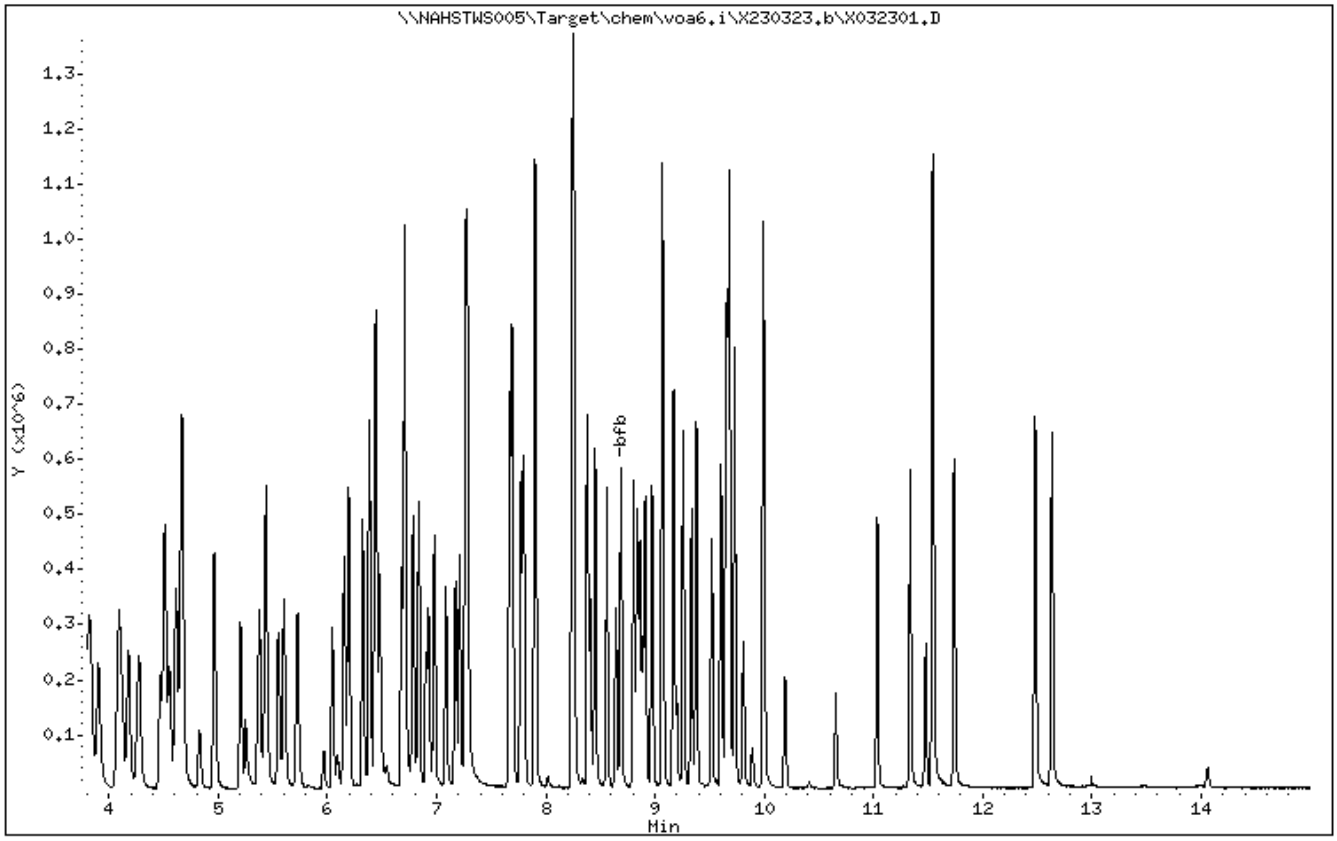
Date : 23-MAR-2023 10:26

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032301.D

Date : 23-MAR-2023 10:26

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

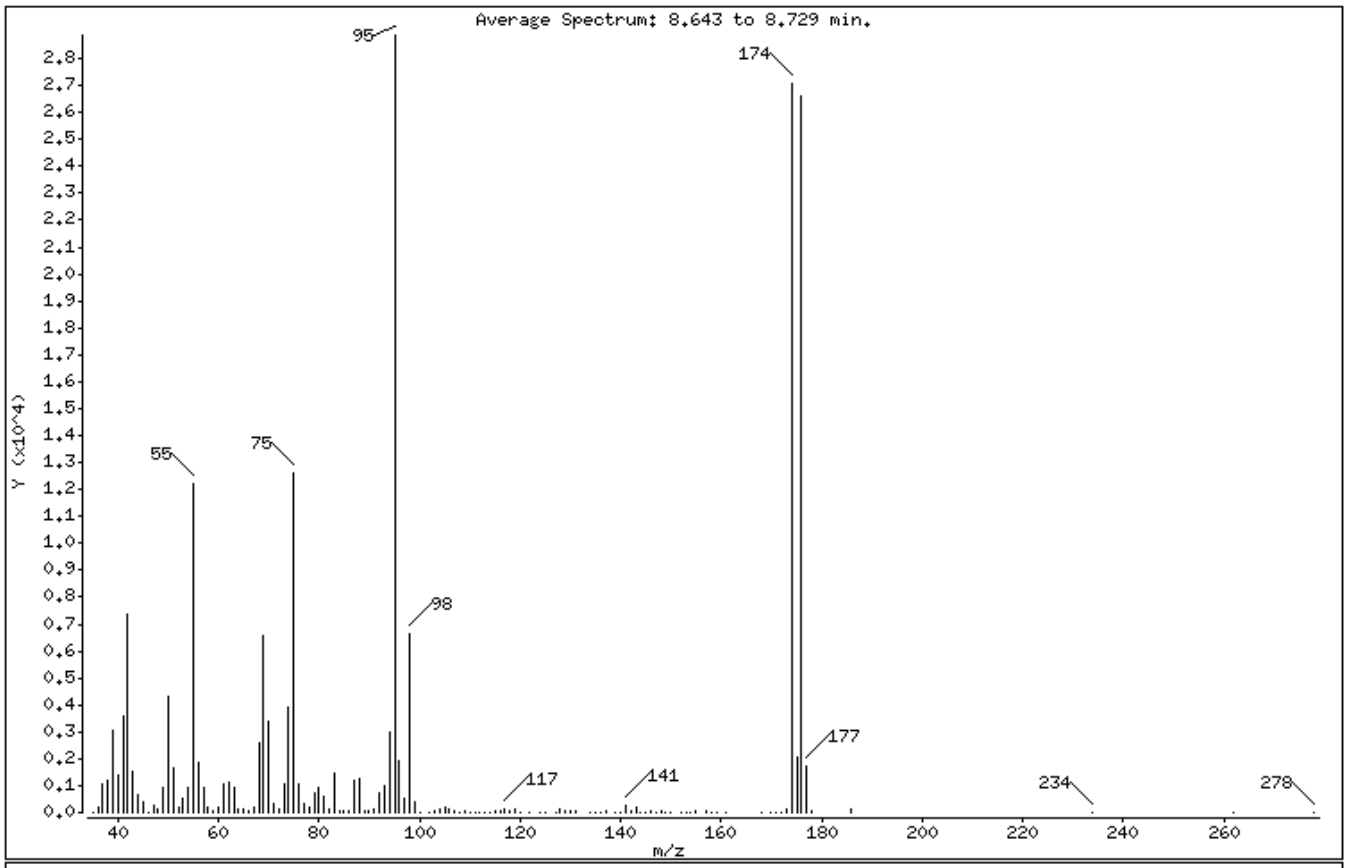
Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.01
75	30.00 - 60.00% of mass 95	43.70
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.42 (0.44)
174	Greater than 50.00% of mass 95	93.84
175	5.00 - 9.00% of mass 174	7.04 (7.50)
176	95.00 - 101.00% of mass 174	92.31 (98.38)
177	5.00 - 9.00% of mass 176	6.02 (6.53)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032301.D

Date : 23-MAR-2023 10:26

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: X032301.D
Spectrum: Average Spectrum: 8.643 to 8.729 min.
Location of Maximum: 95.00
Number of points: 131

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	2	68.00	2565	102.00	3	141.00	255
36.00	227	69.00	6582	103.00	51	142.00	37
37.00	1058	70.00	3378	104.00	153	143.00	197
38.00	1208	71.00	332	105.00	181	144.00	11
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41.00	3604	74.00	3941	108.00	9	147.00	15
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43.00	1501	76.00	1094	110.00	14	149.00	10
44.00	679	77.00	337	111.00	5	150.00	23
45.00	399	78.00	221	112.00	7	152.00	7
46.00	19	79.00	759	113.00	20	153.00	18
47.00	296	80.00	901	114.00	8	154.00	10
48.00	134	81.00	611	115.00	48	155.00	79
49.00	936	82.00	135	116.00	90	157.00	51
50.00	4332	83.00	1435	117.00	161	158.00	5
51.00	1630	84.00	61	118.00	80	159.00	26
52.00	210	85.00	75	119.00	119	161.00	22
53.00	559	86.00	35	120.00	17	168.00	5
54.00	941	87.00	1226	122.00	2	170.00	5
55.00	12234	88.00	1230	124.00	6	171.00	3
56.00	1828	89.00	60	125.00	2	172.00	8
57.00	927	90.00	65	127.00	24	173.00	120
58.00	186	91.00	159	128.00	138	174.00	27080
59.00	53	92.00	709	129.00	59	175.00	2031
60.00	197	93.00	1005	130.00	90	176.00	26640
61.00	1068	94.00	2959	131.00	38	177.00	1739
62.00	1143	95.00	28864	134.00	9	178.00	38
63.00	948	96.00	1930	135.00	30	186.00	144
64.00	121	97.00	503	136.00	6	234.00	9
65.00	148	98.00	6659	137.00	46	262.00	2
66.00	94	99.00	430	139.00	15	278.00	7
67.00	230	100.00	24	140.00	19		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032303.D Page 1
Report Date: 04-Apr-2023 11:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032303.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 23-MAR-2023 11:08
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\8260W.m
Meth Date : 04-Apr-2023 11:52 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	302512	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	37861	1000.00	943.21
140 1,3-Butadiene	54	1.164	1.164	(0.279)	81605	50.0000	39.77
25 Methacrylonitrile	41	3.818	3.818	(0.914)	126542	50.0000	45.38
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	379087	1000.00	918.49
13 Acetonitrile	39	2.198	2.198	(0.526)	123671	500.000	439.25
14 Allyl Chloride	41	2.195	2.195	(0.525)	301253	50.0000	43.25
4 Propionitrile	54	3.645	3.645	(0.873)	203776	500.000	478.06
142 Tetrahydrofuran	42	3.840	3.840	(0.919)	48870	100.000	98.92
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	262281	50.0000	48.60
156 Diisopropyl ether	45	2.997	2.997	(0.717)	386410	50.0000	41.14
182 Epichlorohydrin	57	6.093	6.093	(1.227)	54488	200.000	213.96
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	550348	50.0000	46.36
2 Dichlorodifluoromethane	85	0.973	0.973	(0.233)	91173	50.0000	44.37
3 Chloromethane	50	1.078	1.078	(0.258)	128400	50.0000	46.14
5 Vinyl Chloride	62	1.141	1.141	(0.273)	101050	50.0000	42.40
6 Bromomethane	94	1.340	1.340	(0.321)	69261	50.0000	50.55
7 Chloroethane	64	1.404	1.404	(0.336)	67599	50.0000	40.00(M)
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	126415	50.0000	44.72
9 Acrolein	56	1.445	1.445	(0.346)	12506	100.000	73.59

10 Acetone	43	1.970	1.970 (0.472)	73387	100.000	92.32
11 1,1-Dichloroethene	96	1.913	1.913 (0.458)	78137	50.0000	43.01

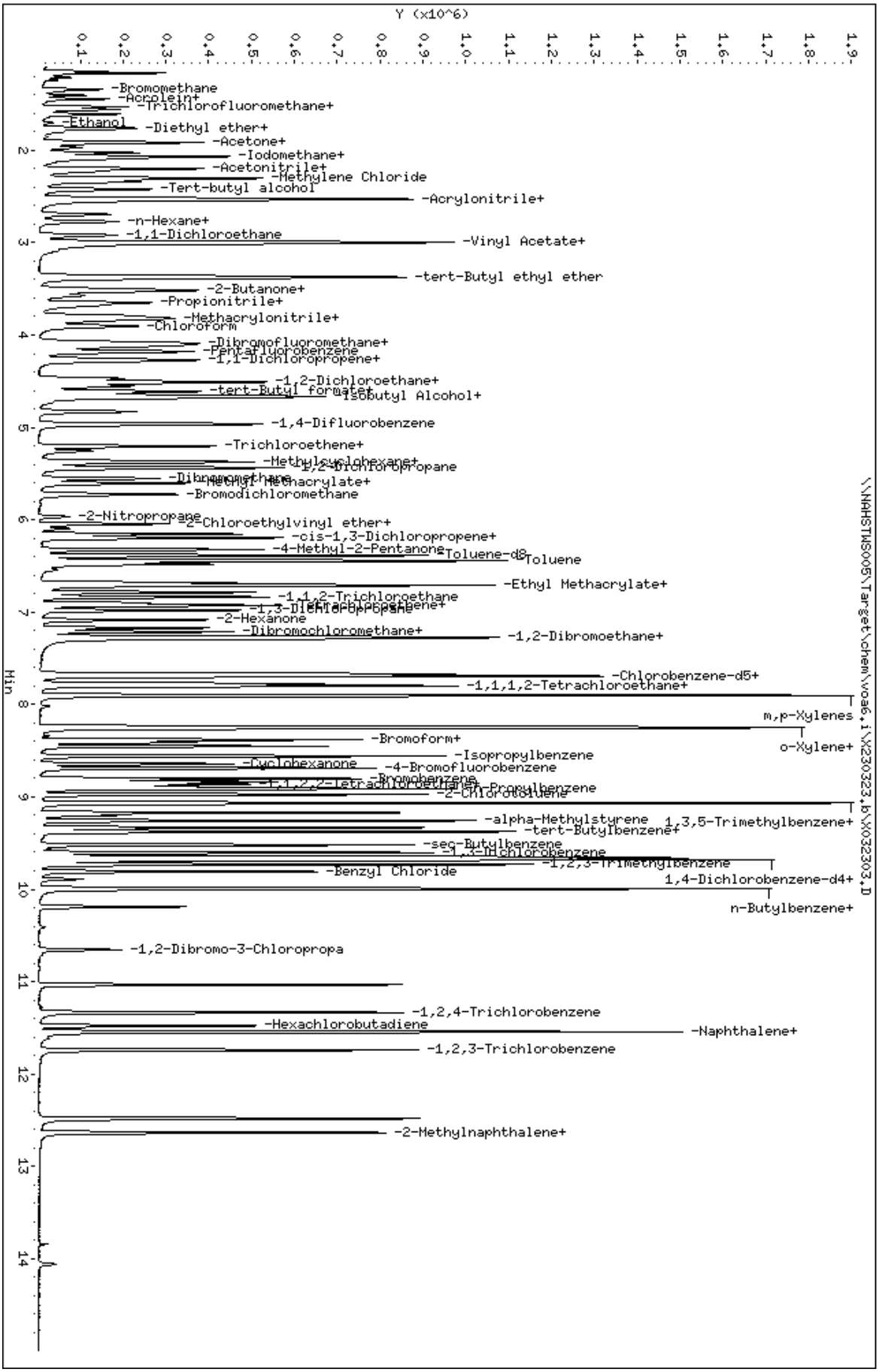
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	15 Iodomethane	142	2.026	2.026	(0.485)	246359	100.000	113.24
	16 Acrylonitrile	53	2.532	2.532	(0.606)	94707	100.000	93.81
	17 Methylene Chloride	84	2.303	2.303	(0.551)	136218	50.0000	45.91
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	420215	50.0000	43.93
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	550078	100.000	82.41
	20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	113784	50.0000	44.40
	21 Vinyl Acetate	43	2.997	2.997	(0.717)	718905	100.000	93.11
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	200407	50.0000	43.18
	24 2-Butanone	43	3.574	3.574	(0.856)	104323	100.000	96.31
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	167040	50.0000	45.67
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	138556	50.0000	44.68
	28 Chloroform	83	3.900	3.900	(0.934)	220810	50.0000	42.87
	29 Bromochloromethane	128	3.792	3.792	(0.908)	77671	50.0000	44.26
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	137579	50.0000	48.78
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	168981	50.0000	43.87
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	144469	50.0000	45.35
	33 1,2-Dichloroethane	62	4.553	4.553	(0.917)	176379	50.0000	47.53
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	137455	50.0000	45.08
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	149695	50.0000	45.98
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	446383	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	503515	50.0000	45.87
	38 Trichloroethene	130	5.205	5.205	(1.048)	141686	50.0000	47.92
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	184668	50.0000	47.39
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	119249	100.000	100.66
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	136300	50.0000	46.07
	44 Dibromomethane	93	5.553	5.553	(1.119)	93393	50.0000	49.49
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	278371	100.000	100.55
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	244789	50.0000	49.74
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	437528	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	529512	50.0000	48.81
	50 Toluene	91	6.446	6.446	(0.841)	546318	50.0000	47.59
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	210284	50.0000	51.47
	52 2-Hexanone	43	7.083	7.083	(0.924)	195606	100.000	102.95
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	119343	50.0000	47.81
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	241475	50.0000	48.68
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	175487	50.0000	49.77
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	108421	50.0000	47.11
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	161466	50.0000	52.34
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	91442	50.0000	43.22
	59 Chlorobenzene	112	7.694	7.694	(1.003)	401493	50.0000	48.94
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	157841	50.0000	49.93
	61 Ethylbenzene	106	7.799	7.799	(1.017)	187756	50.0000	46.50
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	483260	100.000	95.11
	63 o-Xylene	106	8.241	8.241	(1.075)	243871	50.0000	47.76
	64 Styrene	104	8.256	8.256	(1.077)	431628	50.0000	51.16
	66 Bromoform	173	8.410	8.410	(1.097)	136118	50.0000	55.83
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	531829	50.0000	45.48
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	221231	50.0000	51.29
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	212908	50.0000	51.40
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	247503	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	187889	50.0000	57.97
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	627488	50.0000	45.61

74	Bromobenzene	156	8.803	8.803 (0.911)	198196	50.0000	49.80
75	1,3,5-Trimethylbenzene	105	9.066	9.066 (0.938)	487620	50.0000	45.70

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	427420	50.0000	46.21	
77	4-Chlorotoluene	91	9.070	9.070	(0.939)	497577	50.0000	47.73	
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	381915	50.0000	44.94	
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	514681	50.0000	47.03	
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	502330	50.0000	43.61	
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	476419	50.0000	46.35	
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	334781	50.0000	48.64	
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	348276	50.0000	47.08	
87	n-Butylbenzene	91	9.992	9.992	(1.034)	385381	50.0000	46.52	
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	344111	50.0000	49.98	
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	44332	50.0000	55.64	
90	1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	264000	50.0000	52.45	
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	91340	50.0000	46.81	
92	Naphthalene	128	11.540	11.540	(1.194)	685081	50.0000	56.71	
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	255876	50.0000	53.13	
M 94	1,2-Dichloroethylene (total)	96				252340	100.000		(a)
141	Cyclohexane	56	4.121	4.121	(0.987)	129695	50.0000	40.73	
138	Freon TF	101	1.913	1.913	(0.458)	74971	50.0000	44.93	
147	Methylcyclohexane	55	5.377	5.377	(1.083)	309339	50.0000	50.19	
146	Methyl Acetate	43	2.228	2.228	(0.533)	87092	50.0000	50.08	
148	Tert-Butyl alcohol	59	2.423	2.423	(0.580)	306642	1000.00	967.93	
149	Isopropyl Alcohol	45	2.090	2.090	(0.500)	156876	1000.00	926.71	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: CCV;CCV;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032303.D
Inj Date : 23-MAR-2023 11:08
InstruID : voa6.i
LabSampID : CCV

Chloroethane (75-00-3)

Reason Code:

BEFORE

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HEIGHT
49036
04-Apr-2023
11:52
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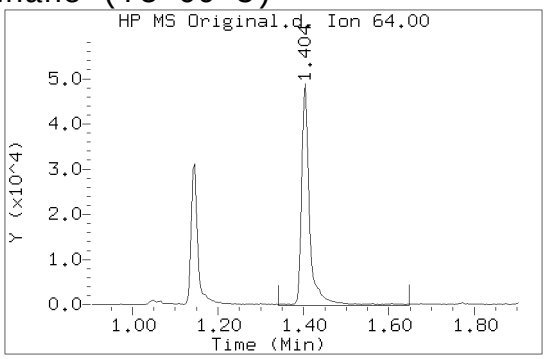
pham



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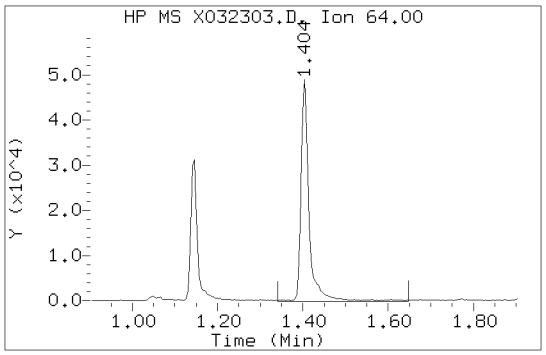

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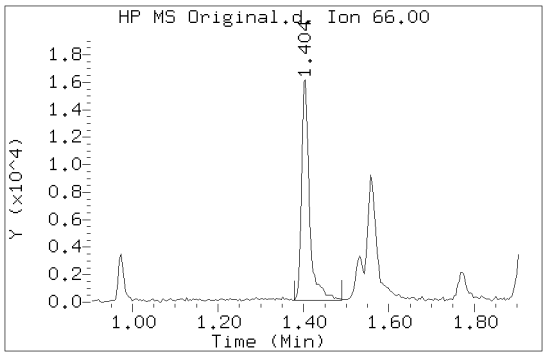

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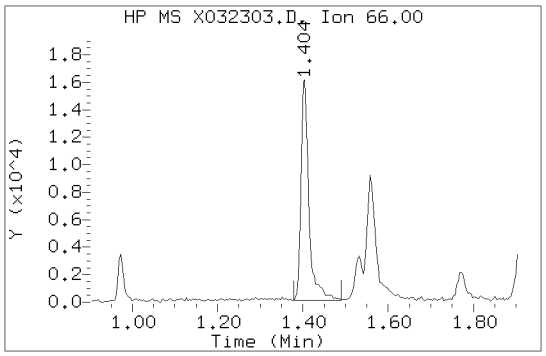

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Report Date: 04-Apr-2023 11:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032304.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 23-MAR-2023 11:29
Operator : PC Inst ID: voa6.i
Smp Info : CCB;CCB;;;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\8260W.m
Meth Date : 04-Apr-2023 11:52 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	441641	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.095	(0.981)	176236	42.7140	42.71
$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	183333	38.7440	38.74
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	620752	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	556662	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	738486	53.5146	53.51
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	261390	49.5973	49.59
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	284770	50.0000	

01184578

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032304.D

Page 1

Date : 23-MAR-2023 11:29

Client ID: CCB

Instrument: voa6.i

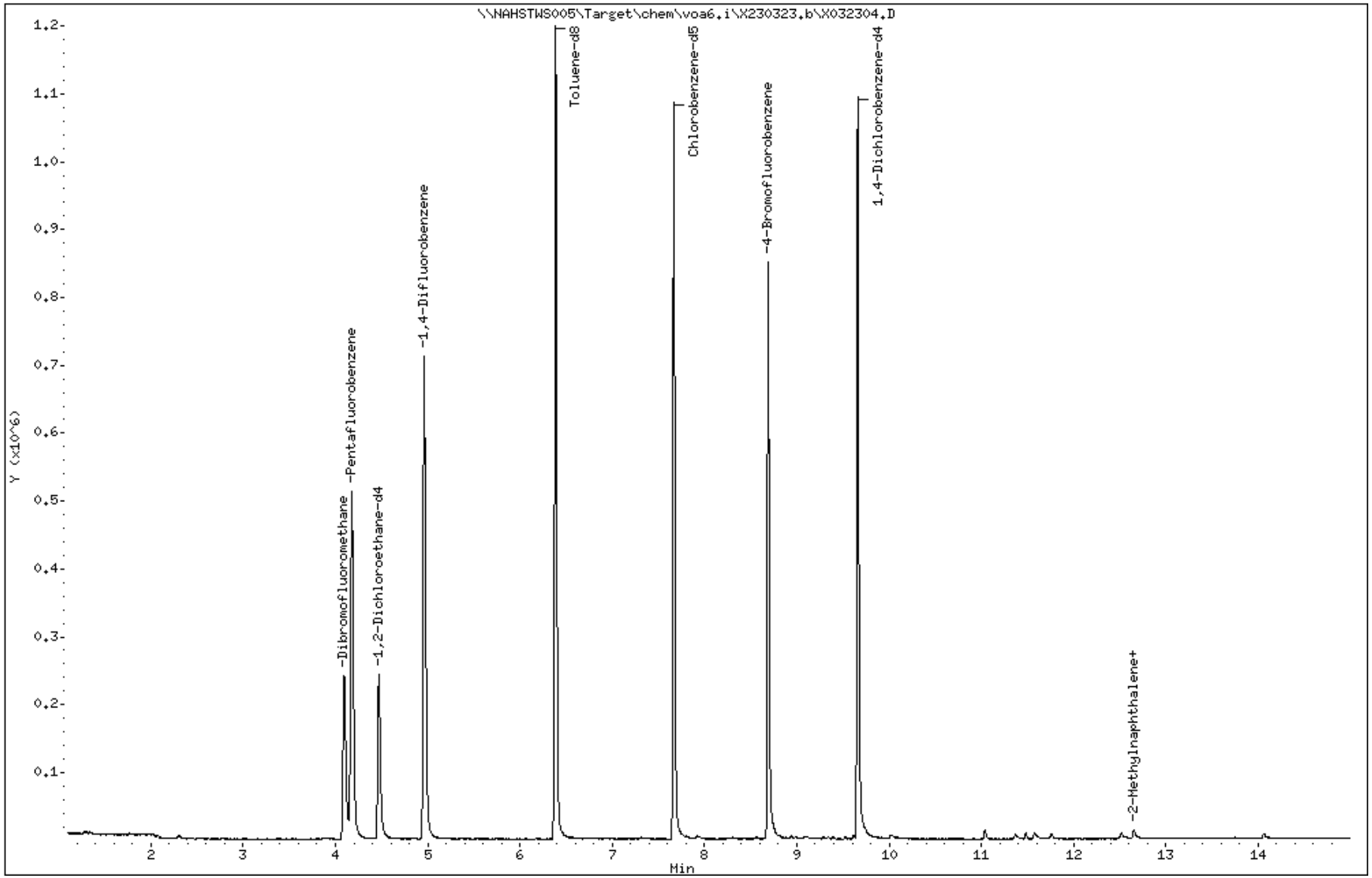
Sample Info: CCB;CCB;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 23-MAR-2023 11:29
InstruID : voa6.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032305.D
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Inj Date : 23-MAR-2023 11:50
Operator : PC Inst ID: voa6.i
Smp Info : VLCSW-230323;VLCSW-230323;3;;LCS
Misc Info : V6;WATER;0;1;
Comment :
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Meth Date : 04-Apr-2023 11:52 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.177	4.178	(1.000)	326763	50.0000	
135	1,4-Dioxane	88	5.594	5.598	(1.339)	16581	382.417	382.41(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	37611	16.9724	16.97
25	Methacrylonitrile	41	3.818	3.818	(0.914)	60306	20.0246	20.02
12	Isobutyl Alcohol	43	4.676	4.672	(1.119)	181262	406.586	406.58
13	Acetonitrile	39	2.198	2.198	(0.526)	52339	172.101	172.10
14	Allyl Chloride	41	2.198	2.195	(0.526)	133839	17.7925	17.79
4	Propionitrile	54	3.649	3.645	(0.873)	93276	202.589	202.58(a)
142	Tetrahydrofuran	42	3.848	3.840	(0.921)	21637	40.5499	40.54
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	114344	20.5403	20.54
156	Diisopropyl ether	45	2.997	2.997	(0.717)	183125	18.0515	18.05
182	Epichlorohydrin	57	6.097	6.093	(1.228)	26437	94.1027	94.10
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	229543	18.7459	18.74
2	Dichlorodifluoromethane	85	0.972	0.973	(0.233)	38737	18.1590	18.15
3	Chloromethane	50	1.077	1.078	(0.258)	60806	20.2300	20.23
5	Vinyl Chloride	62	1.141	1.141	(0.273)	46598	18.1053	18.10
6	Bromomethane	94	1.340	1.340	(0.321)	30977	20.9333	20.93
7	Chloroethane	64	1.403	1.404	(0.336)	30186	16.5380	16.53
8	Trichlorofluoromethane	101	1.561	1.561	(0.374)	53275	17.4513	17.45
9	Acrolein	56	1.445	1.445	(0.346)	4994	29.1715	29.17

10 Acetone	43	1.973	1.970 (0.472)	35031	37.8971	37.89
11 1,1-Dichloroethene	96	1.913	1.913 (0.458)	33696	17.1720	17.17

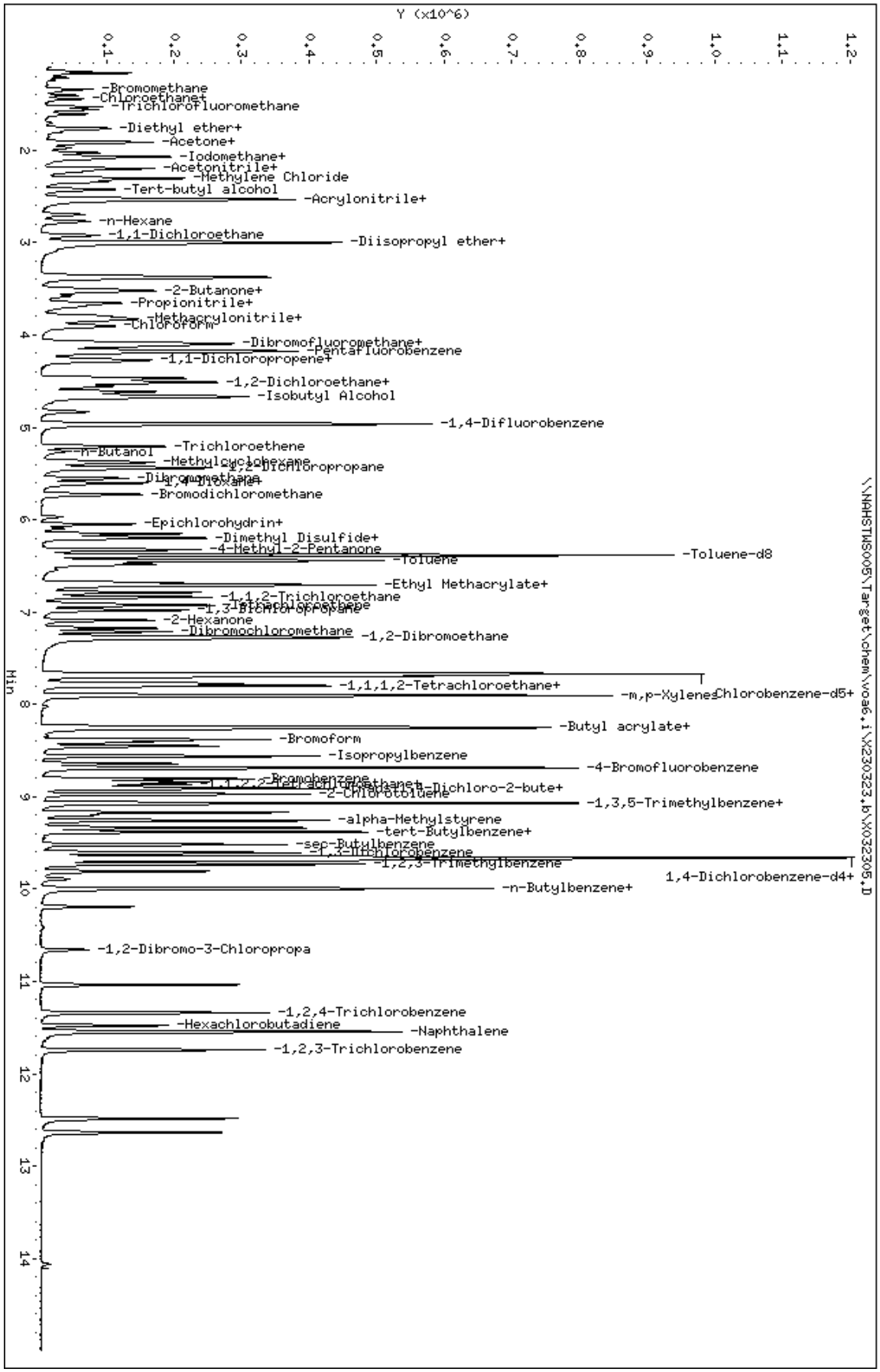
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
15	Iodomethane	142	2.029	2.026	(0.486)	91384	46.3112	46.31
16	Acrylonitrile	53	2.536	2.532	(0.607)	42718	39.1752	39.17
17	Methylene Chloride	84	2.303	2.303	(0.551)	65269	19.4066	19.40
18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	195019	18.8751	18.87
19	Carbon Disulfide	76	2.067	2.067	(0.495)	241845	33.5447	33.54
20	trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	52113	18.8296	18.82
21	Vinyl Acetate	43	2.997	2.997	(0.717)	344414	41.2988	41.29
22	1,1-Dichloroethane	63	2.922	2.922	(0.699)	93299	18.6136	18.61
24	2-Butanone	43	3.578	3.574	(0.856)	45596	38.9718	38.97
26	2,2-Dichloropropane	77	3.506	3.510	(0.839)	78130	19.6341	19.63
27	cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	62637	18.7019	18.70
28	Chloroform	83	3.908	3.900	(0.935)	102511	18.4265	18.42
29	Bromochloromethane	128	3.791	3.792	(0.908)	36543	19.2805	19.28
$ 30	Dibromofluoromethane	113	4.099	4.095	(0.981)	147697	48.4847	48.48
31	1,1,1-Trichloroethane	97	4.080	4.076	(0.977)	78039	18.7585	18.75
32	1,1-Dichloropropene	75	4.279	4.279	(0.862)	64385	18.3239	18.32
33	1,2-Dichloroethane	62	4.556	4.553	(0.918)	84514	20.6441	20.64
34	Carbon Tetrachloride	117	4.264	4.260	(0.859)	60970	18.1263	18.12
$ 35	1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	159762	45.4460	45.44
* 36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	492457	50.0000	
37	Benzene	78	4.511	4.511	(0.909)	240056	19.8244	19.82
38	Trichloroethene	130	5.208	5.205	(1.049)	63577	19.4926	19.49
39	Bromodichloromethane	83	5.726	5.726	(1.153)	89070	20.7218	20.72
41	2-Chloroethylvinyl ether	63	6.048	6.044	(1.218)	55795	42.6941	42.69
42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	66073	20.2475	20.24
44	Dibromomethane	93	5.553	5.553	(1.119)	43952	21.1153	21.11
45	4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	131531	44.9218	44.92
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	112208	20.6677	20.66
* 47	Chlorobenzene-d5	117	7.667	7.668	(1.000)	462766	50.0000	
$ 48	Toluene-d8	98	6.385	6.386	(0.833)	556896	48.5439	48.54
50	Toluene	91	6.445	6.446	(0.841)	253124	20.8481	20.84
51	trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	96996	21.5203	21.52
52	2-Hexanone	43	7.086	7.083	(0.924)	89160	44.3675	44.36
53	1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	55437	21.0014	21.00
54	1,3-Dichloropropane	76	6.981	6.978	(0.911)	113723	21.6774	21.67
55	Dibromochloromethane	129	7.176	7.173	(0.936)	78543	21.0629	21.06
56	Tetrachloroethene	164	6.925	6.925	(0.903)	46744	19.2054	19.20
57	1,2-Dibromoethane	107	7.263	7.259	(0.947)	72293	22.1569	22.15
58	1-Chlorohexane	55	7.697	7.694	(1.550)	40589	18.7297	18.72
59	Chlorobenzene	112	7.694	7.694	(1.003)	178924	20.6214	20.62
60	1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	70171	20.9868	20.98
61	Ethylbenzene	106	7.799	7.799	(1.017)	83659	19.5919	19.59
62	m,p-Xylenes	106	7.904	7.900	(1.031)	213933	39.8098	39.80
63	o-Xylene	106	8.241	8.241	(1.075)	109363	20.2529	20.25
64	Styrene	104	8.260	8.256	(1.077)	192378	21.5608	21.56
66	Bromoform	173	8.410	8.410	(1.097)	58781	22.7972	22.79
67	Isopropylbenzene	105	8.560	8.560	(1.116)	229924	18.5910	18.59
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	99028	22.2580	22.25
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	217904	49.7358	49.73
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	255337	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	73027	21.8402	21.84(M)
73	n-Propylbenzene	91	8.912	8.908	(0.922)	266999	18.8143	18.81

74	Bromobenzene	156	8.803	8.803 (0.911)	88024	21.4424	21.44
75	1,3,5-Trimethylbenzene	105	9.066	9.066 (0.938)	213130	19.3627	19.36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	192596	20.1852	20.18
77	4-Chlorotoluene	91	9.069	9.070	(0.939)	221080	20.5575	20.55
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	163053	18.5984	18.59
79	1,2,4-Trimethylbenzene	105	9.381	9.377	(0.971)	226370	20.0527	20.05
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	205469	17.2914	17.29
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	193051	18.2070	18.20
83	1,3-Dichlorobenzene	146	9.605	9.602	(0.994)	141275	19.8978	19.89
84	1,4-Dichlorobenzene	146	9.680	9.681	(1.002)	152260	19.9530	19.95
87	n-Butylbenzene	91	9.995	9.992	(1.035)	155682	18.2175	18.21
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	150440	21.1843	21.18
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	18055	22.8617	22.86
90	1,2,4-Trichlorobenzene	180	11.337	11.338	(1.173)	104582	20.1434	20.14
91	Hexachlorobutadiene	225	11.480	11.476	(1.188)	33578	18.3644	18.36
92	Naphthalene	128	11.544	11.540	(1.195)	269750	21.6476	21.64
93	1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	99706	20.0691	20.06
M 94	1,2-Dichloroethylene (total)	96				114750	37.5314	37.53
M 95	Xylenes (total)	106				323296	60.0627	60.06
141	Cyclohexane	56	4.121	4.121	(0.987)	58497	18.3341	18.33
138	Freon TF	101	1.913	1.913	(0.458)	30065	17.8204	17.82
147	Methylcyclohexane	55	5.381	5.377	(1.084)	134233	19.7416	19.74
146	Methyl Acetate	43	2.232	2.228	(0.534)	39000	20.7649	20.76
148	Tert-Butyl alcohol	59	2.427	2.423	(0.581)	133910	391.326	391.32
149	Isopropyl Alcohol	45	2.093	2.090	(0.501)	65609	358.807	358.80

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032305.D
Date : 23-MAR-2023 11:50
Client ID: VLCSW-230323
Sample Info: VLCSW-230323;VLCSW-230323;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

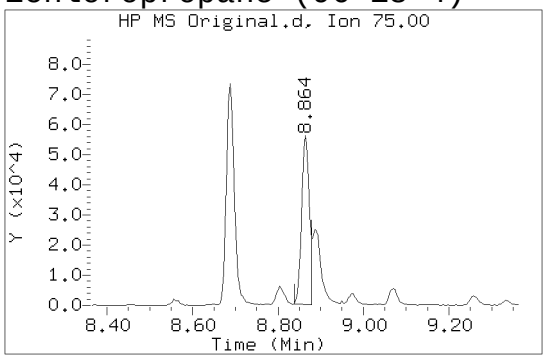
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032305.D
Inj Date : 23-MAR-2023 11:50
InstruID : voa6.i
LabSampID : VLCSW-230323

1,2,3-Trichloropropane (96-18-4)

Reason Code:

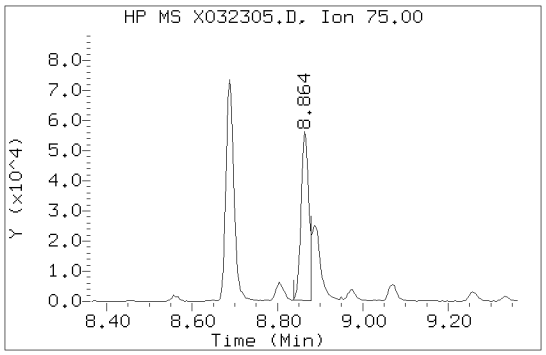
BEFORE

MASS
75
AREA
73027
HEIGHT
56051
04-Apr-2023
11:52
linh
pham



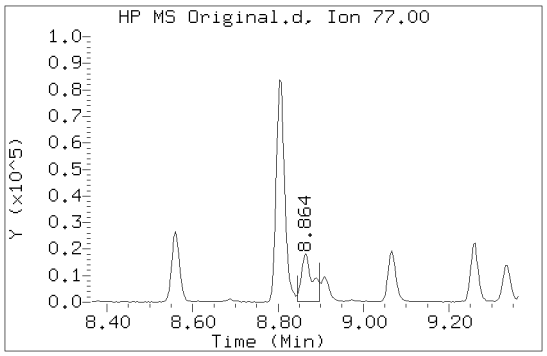
AFTER

MASS
75
AREA
73027
HEIGHT
56051
04-Apr-2023
11:52
linh
pham



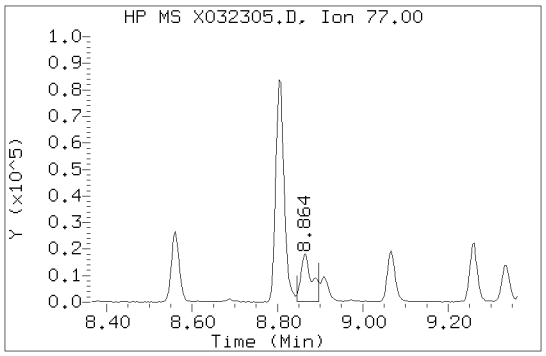
BEFORE

MASS
77
AREA
33918
HEIGHT
18086
04-Apr-2023
11:52
linh
pham



AFTER

MASS
77
AREA
33918
HEIGHT
18086
04-Apr-2023
11:52
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032307.D Page 1
Report Date: 04-Apr-2023 11:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032307.D
Lab Smp Id: VBLKW-230323 Client Smp ID: VBLKW-230323
Inj Date : 23-MAR-2023 12:33
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-230323;VBLKW-230323;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\8260W.m
Meth Date : 04-Apr-2023 11:52 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.178	(1.000)	450970	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	184230	43.7462	43.74
$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	198933	41.1054	41.10(M)
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	625633	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	544501	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	729938	54.0766	54.07
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	252901	49.0564	49.05
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	282886	50.0000	

QC Flag Legend

M - Compound response manually integrated.

01184588

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032307.D

Date : 23-MAR-2023 12:33

Client ID: VBLKW-230323

Instrument: voa6.i

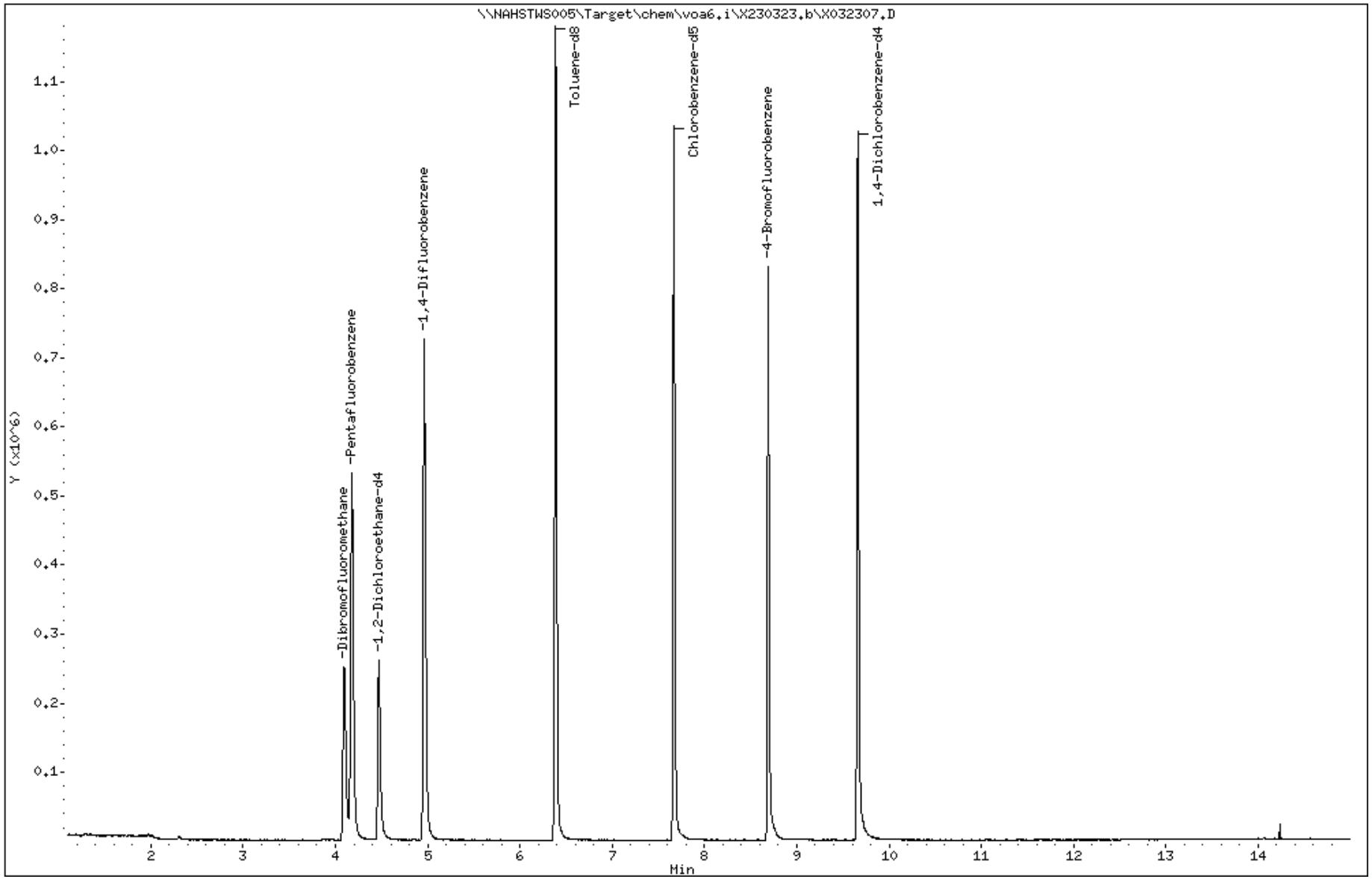
Sample Info: VBLKW-230323;VBLKW-230323;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



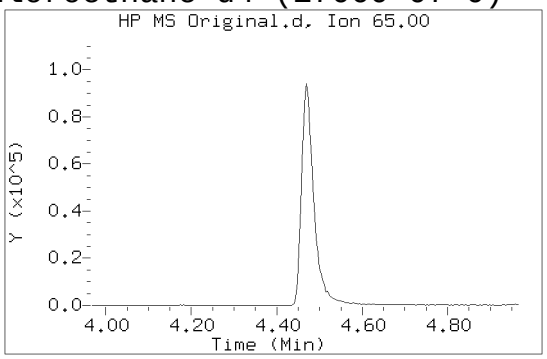
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032307.D
Inj Date : 23-MAR-2023 12:33
InstruID : voa6.i
LabSampID : VBLKW-230323

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

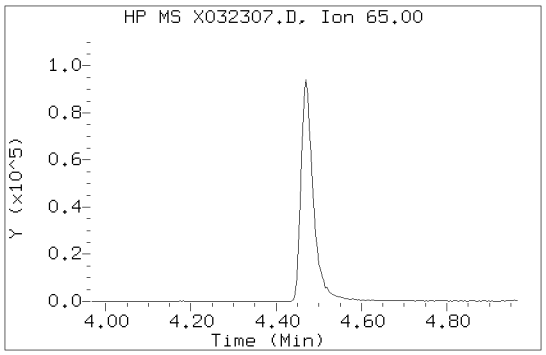
BEFORE

MASS
65
AREA
198933
HEIGHT
94096
04-Apr-2023
11:52
linh
pham



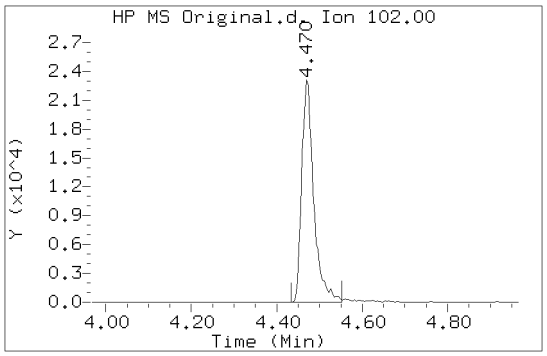
AFTER

MASS
65
AREA
198933
HEIGHT
94096
04-Apr-2023
11:52
linh
pham



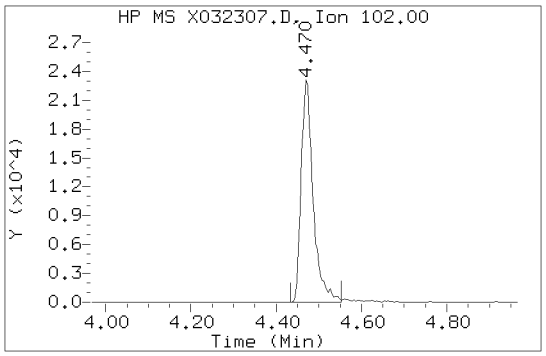
BEFORE

MASS
102
AREA
46124
HEIGHT
23112
04-Apr-2023
11:52
linh
pham



AFTER

MASS
102
AREA
46124
HEIGHT
23112
04-Apr-2023
11:52
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032309.D Page 1
Report Date: 04-Apr-2023 11:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032309.D
Lab Smp Id: HS23031291-03 Client Smp ID: HS23031291-03
Inj Date : 23-MAR-2023 13:15
Operator : PC Inst ID: voa6.i
Smp Info : HS23031291-03;HS23031291-03;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\8260W.m
Meth Date : 04-Apr-2023 11:52 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	435237	50.0000	
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	13206	3.24775	3.24(a)
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	177238	43.6048	43.60
$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	189148	40.5119	40.51(M)
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	606873	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	536344	50.0000	
$ 48 Toluene-d8	98	6.386	6.386	(0.833)	710256	53.4187	53.41
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	254513	50.1238	50.12
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	285883	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01184591

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032309.D

Date : 23-MAR-2023 13:15

Client ID: HS23031291-03

Instrument: voa6.i

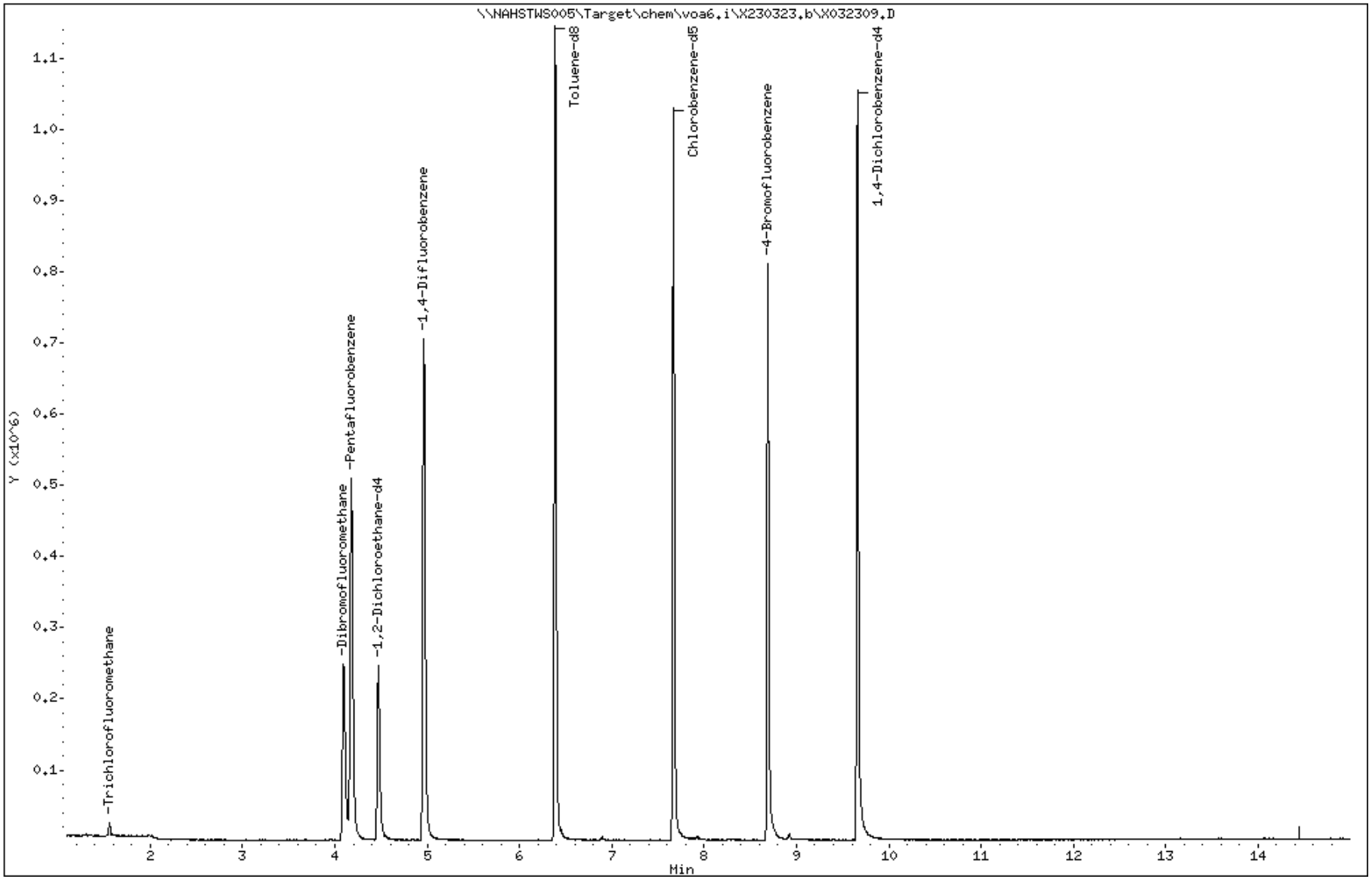
Sample Info: HS23031291-03;HS23031291-03;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032309.D

Date : 23-MAR-2023 13:15

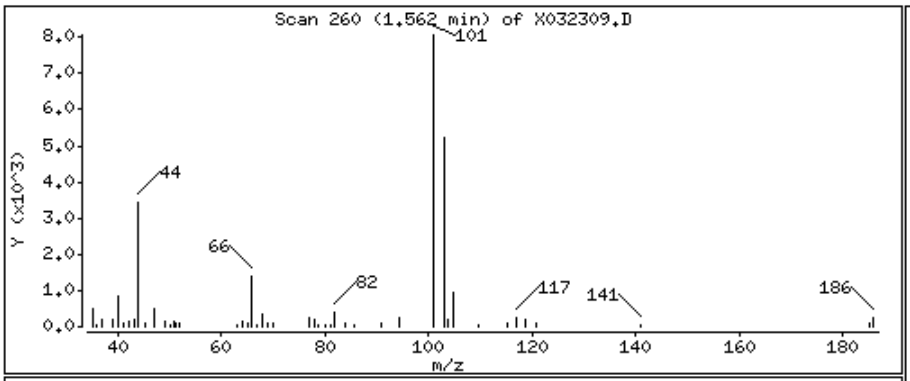
Client ID: HS23031291-03 Instrument: voa6.i

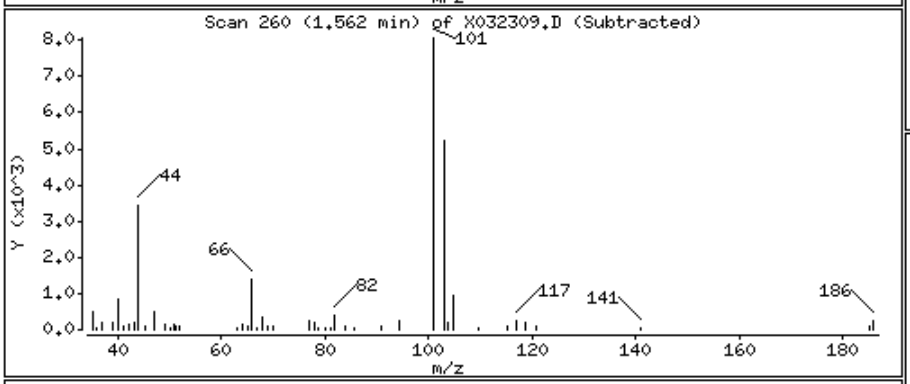
Sample Info: HS23031291-03;HS23031291-03;;;

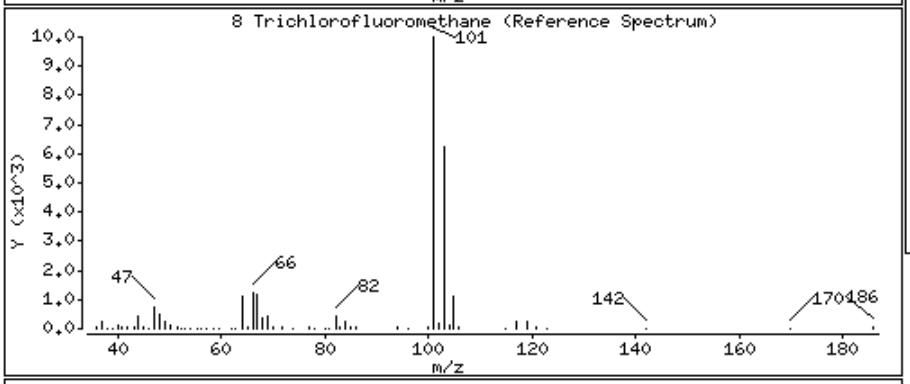
Purge Volume: 5.0 Operator: PC

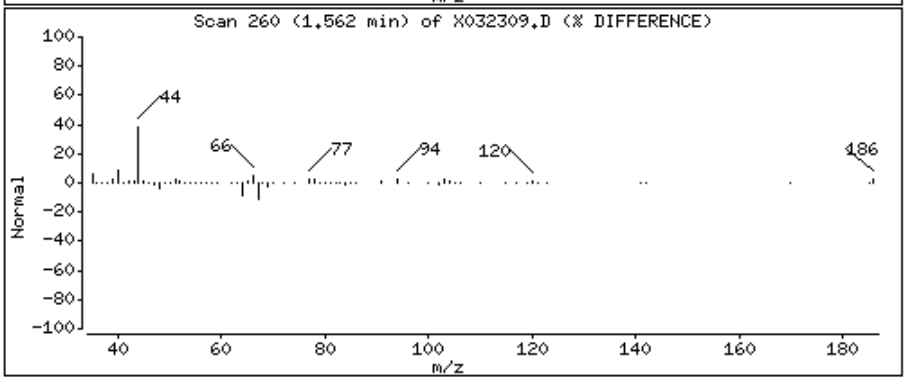
Column phase: DB624 Column diameter: 0.18

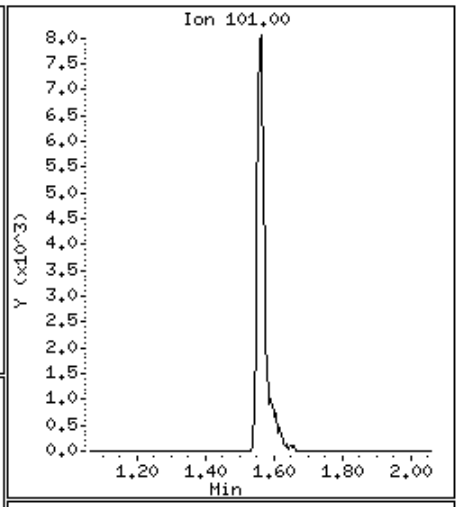
8 Trichlorofluoromethane Concentration: 3.24 ug/l

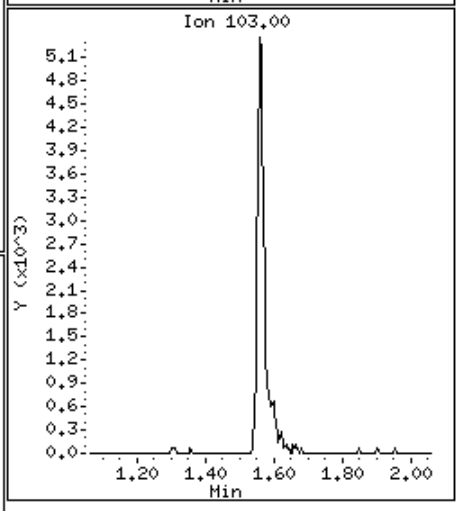












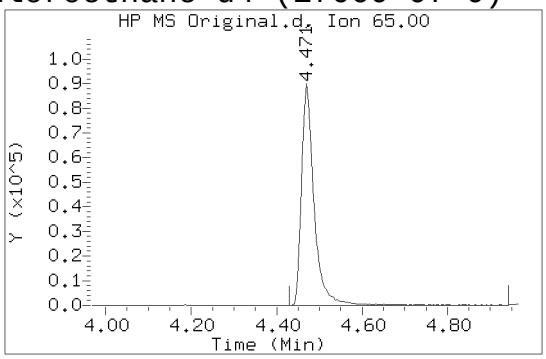
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032309.D
Inj Date : 23-MAR-2023 13:15
InstruID : voa6.i
LabSampID : HS23031291-03

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

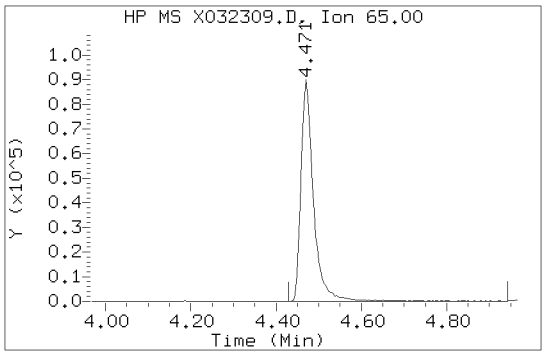
BEFORE

MASS
65
AREA
189148
HEIGHT
90016
04-Apr-2023
11:52
linh
pham



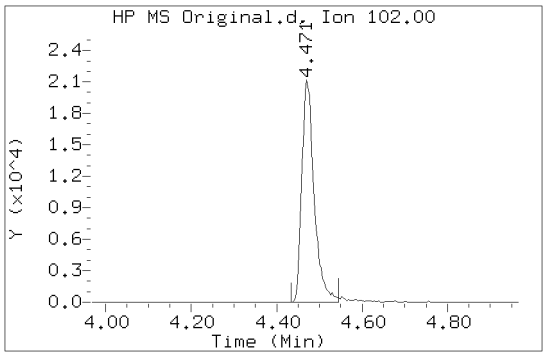
AFTER

MASS
65
AREA
189148
HEIGHT
90016
04-Apr-2023
11:52
linh
pham



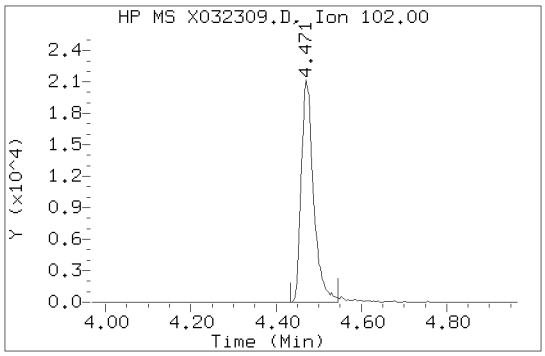
BEFORE

MASS
102
AREA
43442
HEIGHT
21184
04-Apr-2023
11:52
linh
pham



AFTER

MASS
102
AREA
43442
HEIGHT
21184
04-Apr-2023
11:52
linh
pham



ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032311.D
Lab Smp Id: HS23031291-01 Client Smp ID: HS23031291-01
Inj Date : 23-MAR-2023 13:57
Operator : PC Inst ID: voa6.i
Smp Info : HS23031291-01;HS23031291-01;;;
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\8260W.m
Meth Date : 04-Apr-2023 11:52 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.178	4.178	(1.000)	457317	50.0000	
	142 Tetrahydrofuran	42	3.855	3.840	(0.923)	14872	19.9149	19.91
	27 cis-1,2-Dichloroethene	96	3.537	3.525	(0.847)	4100	0.87469	0.87(a)
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	189774	44.4494	44.44
$	35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	204751	41.7047	41.70
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	643786	50.0000	
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	552502	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	745539	54.4325	54.43
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	260337	49.7701	49.77
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	283942	50.0000	
M	94 1,2-Dichloroethylene (total)	96				4100	0.87469	0.87(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

01184595

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032311.D

Date : 23-MAR-2023 13:57

Client ID: HS23031291-01

Instrument: voa6.i

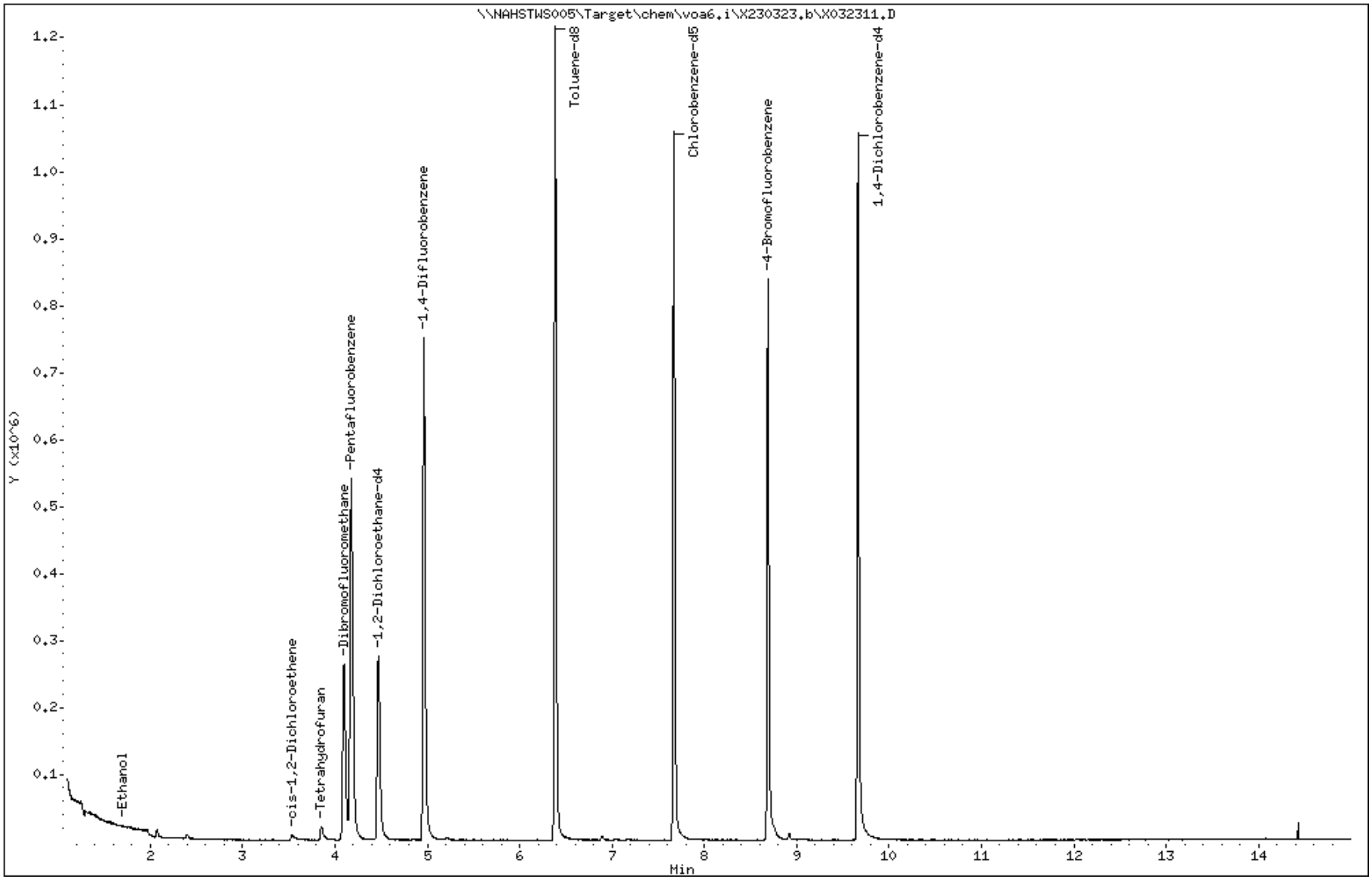
Sample Info: HS23031291-01;HS23031291-01;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032311.D

Date : 23-MAR-2023 13:57

Client ID: HS23031291-01

Instrument: voa6.i

Sample Info: HS23031291-01;HS23031291-01;;;

Purge Volume: 5.0

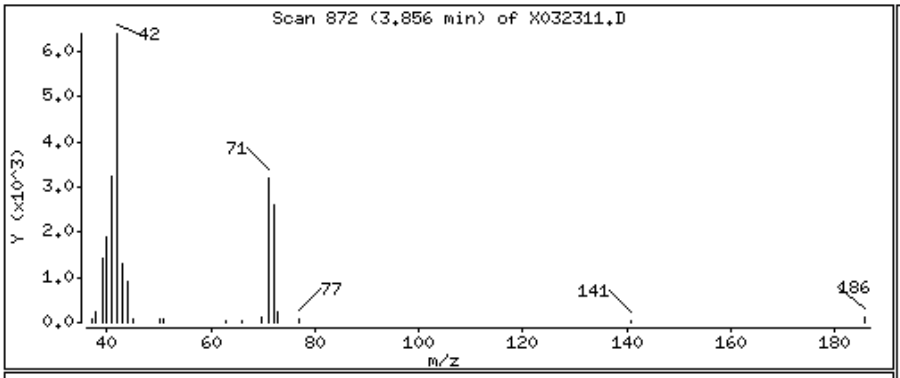
Operator: PC

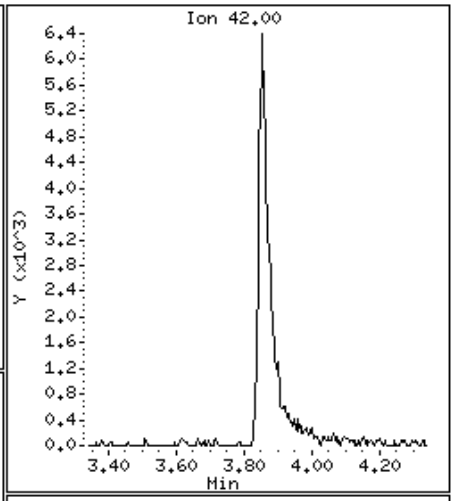
Column phase: DB624

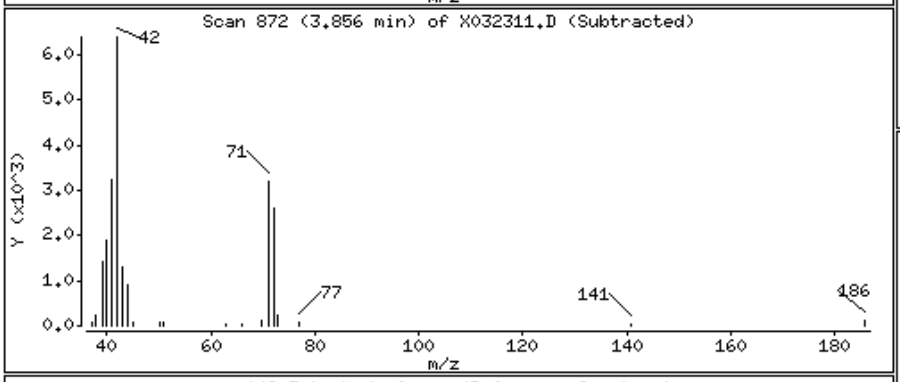
Column diameter: 0.18

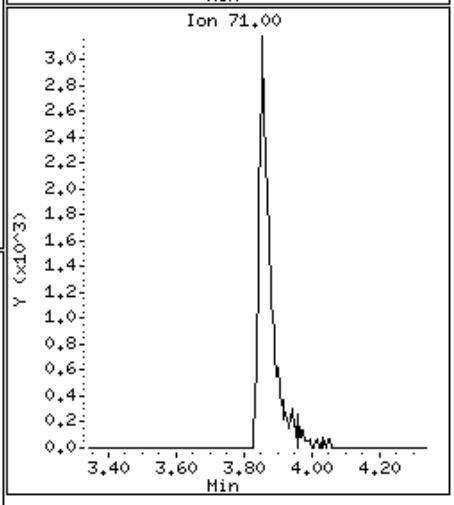
142 Tetrahydrofuran

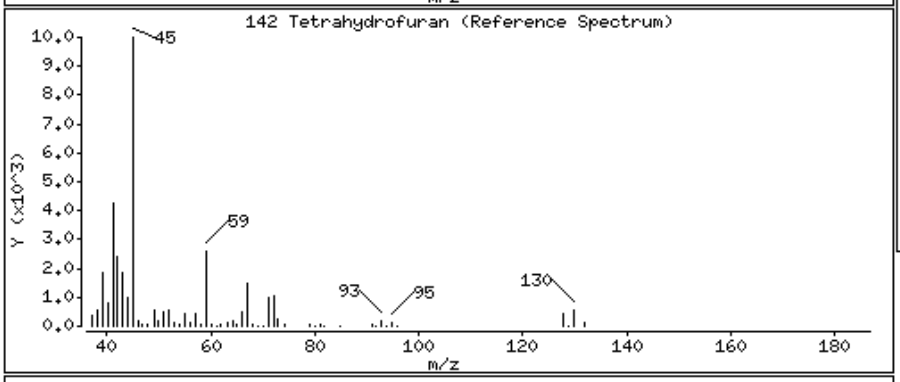
Concentration: 19.91 ug/l

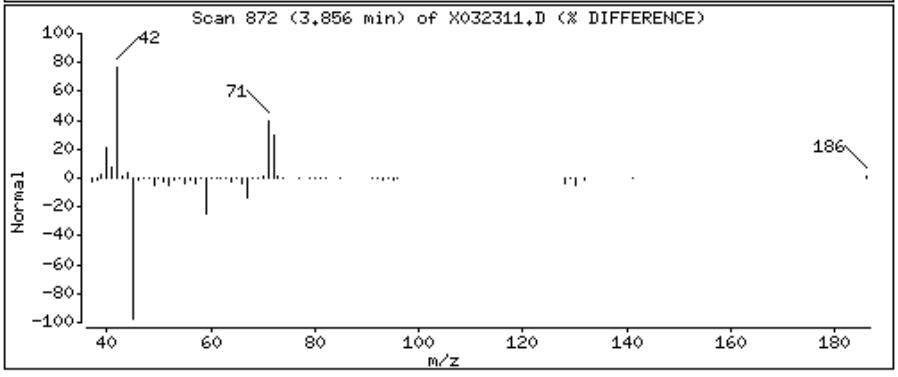












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Date : 23-MAR-2023 13:57

Client ID: HS23031291-01

Instrument: voa6.i

Sample Info: HS23031291-01;HS23031291-01;;;

Purge Volume: 5.0

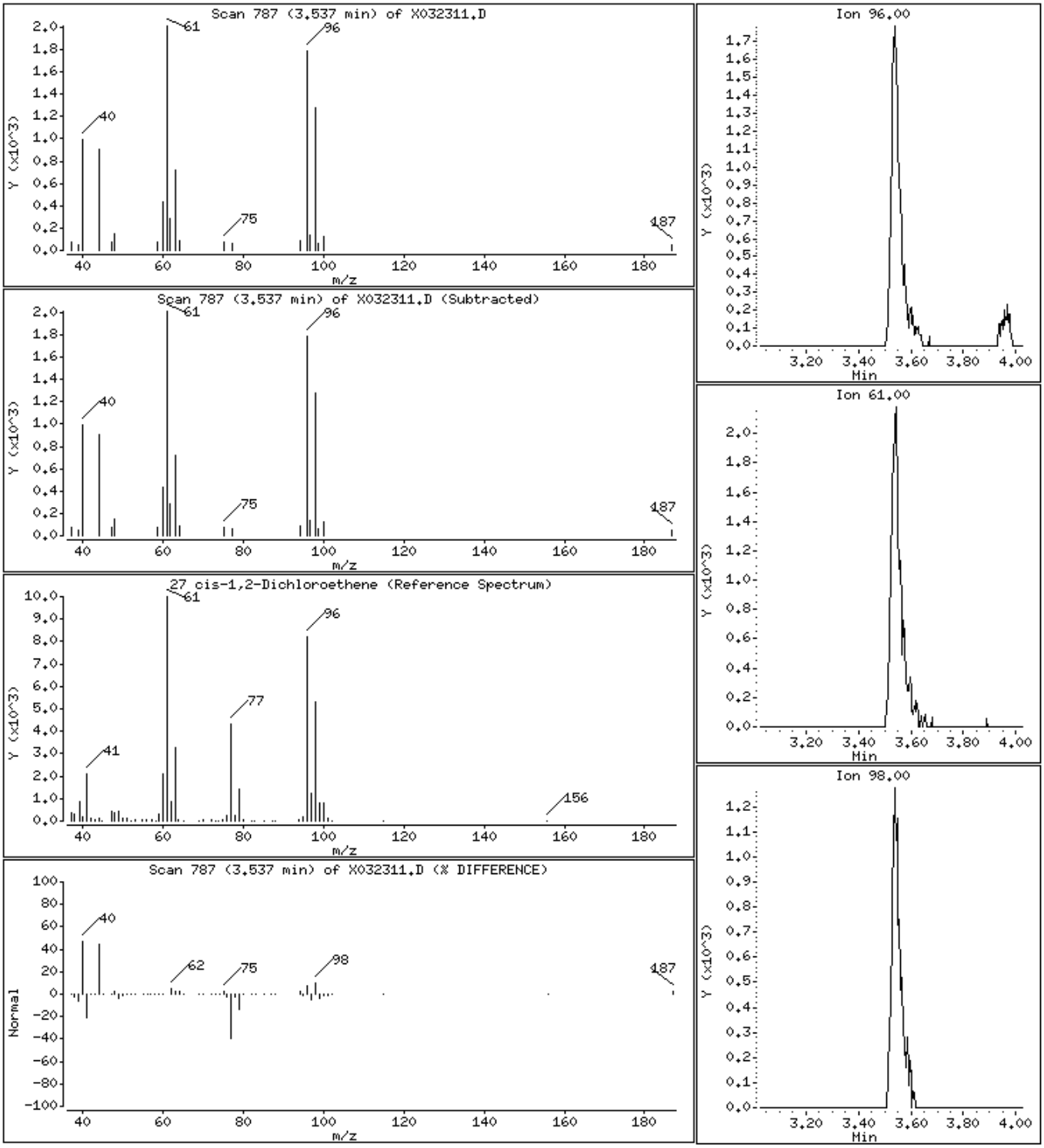
Operator: PC

Column phase: DB624

Column diameter: 0.18

27 cis-1,2-Dichloroethene

Concentration: 0.87 ug/l



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InstruID : voa6.i
LabSampID : HS23031291-01

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032314.D
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Inj Date : 23-MAR-2023 15:00
Operator : PC Inst ID: voa6.i
Smp Info : HS23031291-01MS;HS23031291-01MS;3;;MS
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\8260W.m
Meth Date : 04-Apr-2023 11:52 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 14 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	444118	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	16676	282.978	282.97(a)
140 1,3-Butadiene	54	1.164	1.164	(0.279)	44950	14.9243	14.92
25 Methacrylonitrile	41	3.829	3.818	(0.917)	57714	14.1000	14.09
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	159938	263.956	263.95
13 Acetonitrile	39	2.198	2.198	(0.526)	56227	136.031	136.03
14 Allyl Chloride	41	2.198	2.195	(0.526)	134469	13.1526	13.15
4 Propionitrile	54	3.653	3.645	(0.874)	84742	135.419	135.41(a)
142 Tetrahydrofuran	42	3.848	3.840	(0.921)	22619	31.1889	31.18
145 alpha-Methylstyrene	118	9.261	9.257	(0.958)	117280	18.3354	18.33
156 Diisopropyl ether	45	2.997	2.997	(0.717)	179675	13.0313	13.03
182 Epichlorohydrin	57	6.097	6.093	(1.228)	14722	41.7489	41.74
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	250115	17.7769	17.77
2 Dichlorodifluoromethane	85	0.973	0.973	(0.233)	53344	18.3879	18.38
3 Chloromethane	50	1.078	1.078	(0.258)	70440	17.2426	17.24
5 Vinyl Chloride	62	1.145	1.141	(0.274)	57971	16.5724	16.57
6 Bromomethane	94	1.340	1.340	(0.321)	27359	13.6030	13.60
7 Chloroethane	64	1.404	1.404	(0.336)	34848	14.0472	14.04(M)
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	77233	18.6141	18.61
9 Acrolein	56	1.445	1.445	(0.346)	9829	40.8464	40.84

10 Acetone	43	1.973	1.970 (0.472)	27936	20.0860	20.08
11 1,1-Dichloroethene	96	1.913	1.913 (0.458)	44618	16.7297	16.72

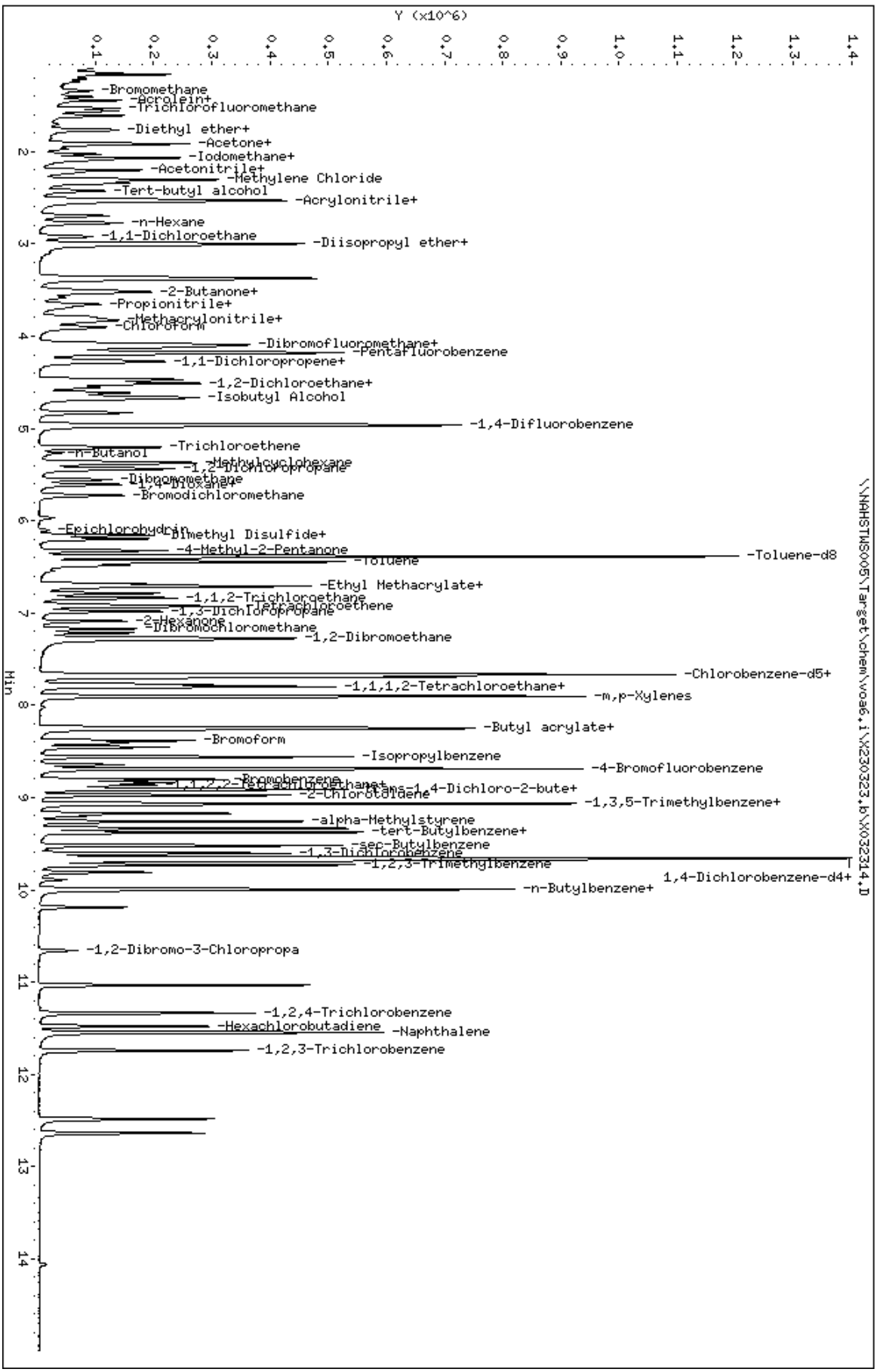
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	15 Iodomethane	142	2.026	2.026	(0.485)	105137	40.7153	40.71
	16 Acrylonitrile	53	2.536	2.532	(0.607)	39382	26.5725	26.57
	17 Methylene Chloride	84	2.303	2.303	(0.551)	65850	13.9599	13.95
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	183336	13.0555	13.05
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	323653	33.0294	33.02
	20 trans-1,2-Dichloroethene	96	2.532	2.528	(0.606)	59908	15.9263	15.92
	21 Vinyl Acetate	43	2.997	2.997	(0.717)	309979	27.3478	27.34
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	101936	14.9629	14.96
	24 2-Butanone	43	3.582	3.574	(0.857)	40467	25.4483	25.44
	26 2,2-Dichloropropane	77	3.507	3.510	(0.839)	90446	16.6855	16.68
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	73123	16.0636	16.06
	28 Chloroform	83	3.900	3.900	(0.934)	107098	14.1641	14.16
	29 Bromochloromethane	128	3.795	3.792	(0.908)	35574	13.8096	13.80
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	178997	43.1489	43.14
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	94837	16.7726	16.77
	32 1,1-Dichloropropene	75	4.283	4.279	(0.863)	82510	18.7080	18.70
	33 1,2-Dichloroethane	62	4.556	4.553	(0.918)	80981	15.7594	15.75
	34 Carbon Tetrachloride	117	4.268	4.260	(0.860)	84021	19.9007	19.90
$	35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	191704	40.2453	40.24
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	618130	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	253512	16.6792	16.67
	38 Trichloroethene	130	5.205	5.205	(1.048)	75763	18.5061	18.50
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	85009	15.7561	15.75
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	65066	15.8851	15.88
	44 Dibromomethane	93	5.553	5.553	(1.119)	41698	15.9596	15.95
	45 4-Methyl-2-Pentanone	43	6.326	6.322	(0.825)	120912	35.2927	35.29
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	106563	15.6373	15.63
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	541471	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	714566	53.2340	53.23
	50 Toluene	91	6.446	6.446	(0.841)	273832	19.2754	19.27
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	90084	15.9232	15.92
	52 2-Hexanone	43	7.087	7.083	(0.924)	77713	33.0502	33.05
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	53329	17.2663	17.26
	54 1,3-Dichloropropane	76	6.982	6.978	(0.911)	110020	17.9232	17.92
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	76132	17.4488	17.44
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	63576	22.3243	22.32
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	69730	18.2650	18.26
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	57946	20.9952	20.99
	59 Chlorobenzene	112	7.694	7.694	(1.003)	187795	18.4978	18.49
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	70441	18.0053	18.00
	61 Ethylbenzene	106	7.799	7.799	(1.017)	97050	19.4243	19.42
	62 m,p-Xylenes	106	7.904	7.900	(1.031)	248171	39.4684	39.46
	63 o-Xylene	106	8.241	8.241	(1.075)	121177	19.1789	19.17
	64 Styrene	104	8.260	8.256	(1.077)	200644	19.2186	19.21
	66 Bromoform	173	8.410	8.410	(1.097)	54942	18.2111	18.21
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	299481	20.6954	20.69
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	89785	17.5633	17.56
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	254354	49.6164	49.61
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	293386	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	66450	17.2959	17.29(M)
	73 n-Propylbenzene	91	8.912	8.908	(0.922)	342998	21.0350	21.03
	74 Bromobenzene	156	8.803	8.803	(0.911)	88084	18.6743	18.67

75	1,3,5-Trimethylbenzene	105	9.066	9.066 (0.938)	259249	20.4980	20.49
76	2-Chlorotoluene	91	8.972	8.972 (0.929)	213681	19.4907	19.49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	239551	19.3862	19.38
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	220786	21.9176	21.91
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	262603	20.2455	20.24
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	298123	21.8351	21.83
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	266138	21.8448	21.84
	83 1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	155113	19.0135	19.01
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	163367	18.6321	18.63
	87 n-Butylbenzene	91	9.996	9.992	(1.035)	219328	22.3367	22.33
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	155700	19.0815	19.08
	89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	16848	18.8445	18.84
	90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	114460	19.1869	19.18
	91 Hexachlorobutadiene	225	11.480	11.476	(1.188)	52785	24.3152	24.31
	92 Naphthalene	128	11.544	11.540	(1.195)	270118	18.8658	18.86
	93 1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	106874	18.7220	18.72
M	94 1,2-Dichloroethylene (total)	96				133031	31.9898	31.98
M	95 Xylenes (total)	106				369348	58.6473	58.64
	141 Cyclohexane	56	4.125	4.121	(0.987)	99096	22.3518	22.35
	138 Freon TF	101	1.913	1.913	(0.458)	50429	21.6448	21.64
	147 Methylcyclohexane	55	5.381	5.377	(1.084)	157838	18.4936	18.49
	146 Methyl Acetate	43	2.232	2.228	(0.534)	33970	13.3075	13.30
	148 Tert-Butyl alcohol	59	2.427	2.423	(0.581)	132075	283.975	283.97
	149 Isopropyl Alcohol	45	2.093	2.090	(0.501)	69223	278.537	278.53

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: HS230312Q1-01MS;HS230312Q1-01MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

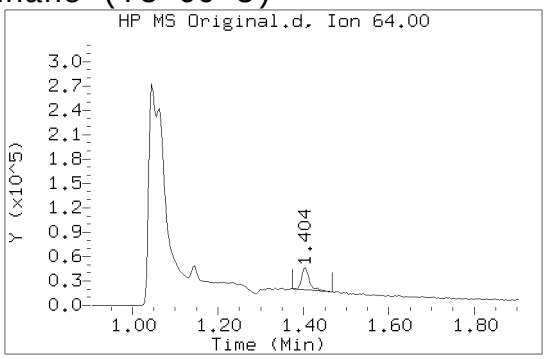
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032314.D
Inj Date : 23-MAR-2023 15:00
InstruID : voa6.i
LabSampID : HS23031291-01MS

Chloroethane (75-00-3)

Reason Code:

BEFORE
MASS
64
AREA
34848
HEIGHT
27533
04-Apr-2023
11:52
linh
pham



AFTER
MASS
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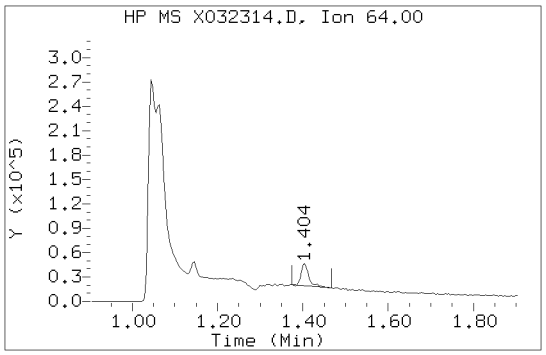

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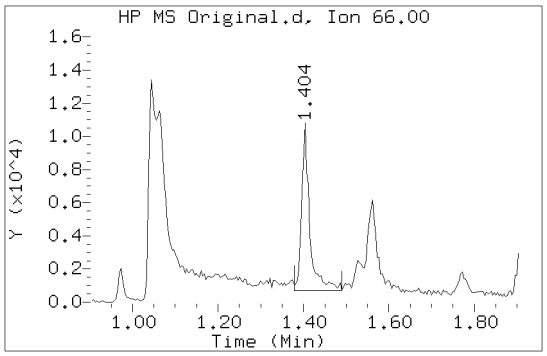

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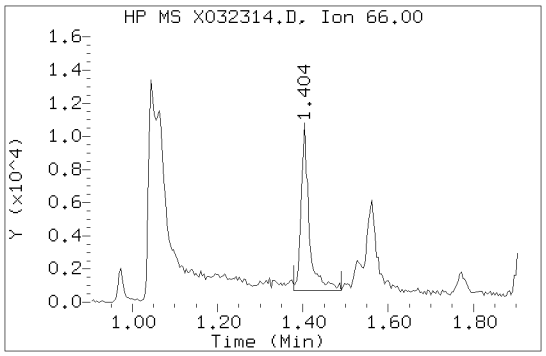

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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HEIGHT
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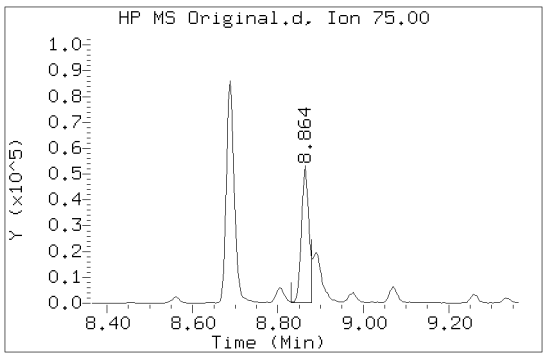
04-Apr-2023
11:52
linh
pham



AFTER
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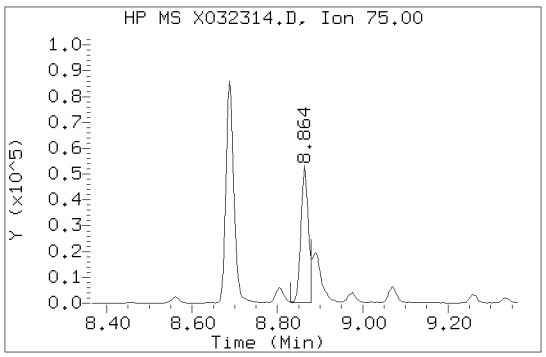

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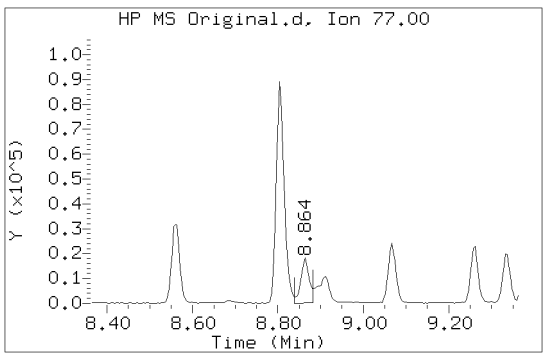

AFTER
MASS
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HEIGHT
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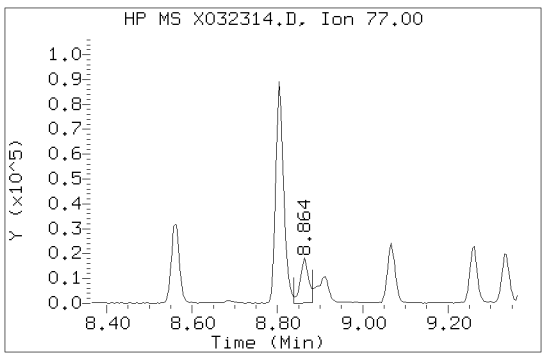
pham



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Report Date: 04-Apr-2023 11:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032315.D
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Inj Date : 23-MAR-2023 15:21
Operator : PC Inst ID: voa6.i
Smp Info : HS23031291-01MSD;HS23031291-01MSD;3;;MSD
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\8260W.m
Meth Date : 04-Apr-2023 11:52 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 14 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	465682	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	17203	278.403	278.40(a)
140 1,3-Butadiene	54	1.164	1.164	(0.279)	58468	18.5136	18.51
25 Methacrylonitrile	41	3.825	3.818	(0.916)	63553	14.8075	14.80
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	185054	291.264	291.26
13 Acetonitrile	39	2.198	2.198	(0.526)	68348	157.699	157.69
14 Allyl Chloride	41	2.198	2.195	(0.526)	157456	14.6878	14.68
4 Propionitrile	54	3.649	3.645	(0.873)	90917	138.559	138.55(a)
142 Tetrahydrofuran	42	3.851	3.840	(0.922)	25549	33.5977	33.59
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	142415	20.6470	20.64
156 Diisopropyl ether	45	3.000	2.997	(0.718)	228617	15.8131	15.81
182 Epichlorohydrin	57	6.097	6.093	(1.228)	13815	37.4692	37.46
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	308378	20.3251	20.32
2 Dichlorodifluoromethane	85	0.972	0.973	(0.233)	58715	19.2609	19.26
3 Chloromethane	50	1.077	1.078	(0.258)	88937	20.7623	20.76
5 Vinyl Chloride	62	1.145	1.141	(0.274)	67479	18.3972	18.39
6 Bromomethane	94	1.340	1.340	(0.321)	32249	15.2918	15.29
7 Chloroethane	64	1.404	1.404	(0.336)	38155	14.6680	14.66(M)
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	88367	20.3113	20.31
9 Acrolein	56	1.445	1.445	(0.346)	9842	39.1469	39.14

10 Acetone	43	1.973	1.970 (0.472)	30297	20.9533	20.95
11 1,1-Dichloroethene	96	1.913	1.913 (0.458)	55199	19.7387	19.73

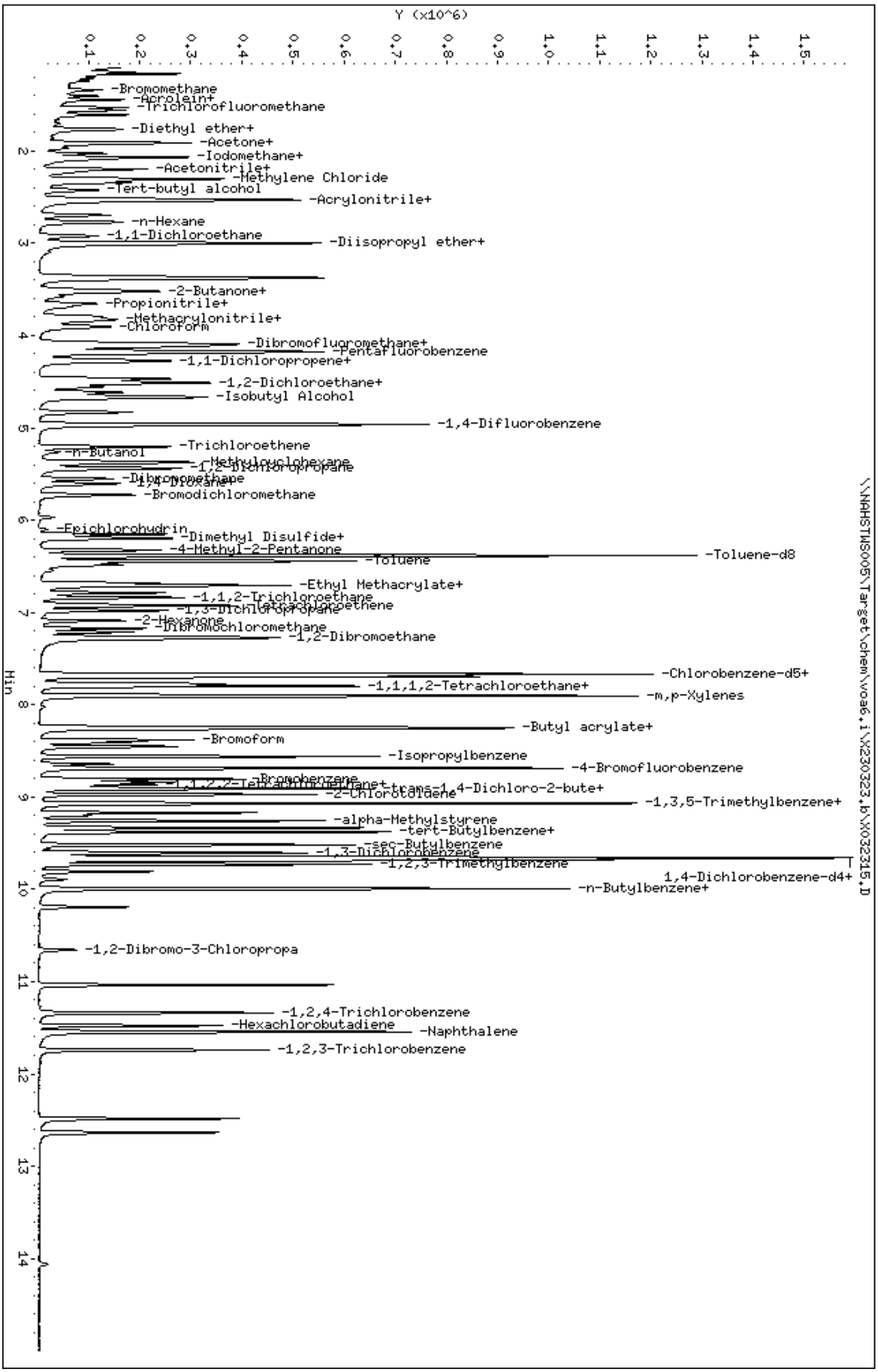
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	15 Iodomethane	142	2.026	2.026	(0.485)	132477	46.9367	46.93
	16 Acrylonitrile	53	2.536	2.532	(0.607)	43864	28.2262	28.22
	17 Methylene Chloride	84	2.303	2.303	(0.551)	82064	16.9177	16.91
	18 Methyl tert-butyl ether	73	2.536	2.532	(0.607)	222155	15.0873	15.08
	19 Carbon Disulfide	76	2.071	2.067	(0.496)	386885	37.6540	37.65
	20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	71792	18.2018	18.20
	21 Vinyl Acetate	43	2.997	2.997	(0.717)	378689	31.8627	31.86
	22 1,1-Dichloroethane	63	2.918	2.922	(0.699)	124980	17.4959	17.49
	24 2-Butanone	43	3.581	3.574	(0.857)	45359	27.2039	27.20
	26 2,2-Dichloropropane	77	3.507	3.510	(0.839)	107374	18.9246	18.92
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	88048	18.4466	18.44
	28 Chloroform	83	3.900	3.900	(0.934)	133588	16.8494	16.84
	29 Bromochloromethane	128	3.791	3.792	(0.908)	43456	16.0882	16.08
$	30 Dibromofluoromethane	113	4.099	4.095	(0.981)	185957	42.7438	42.74
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	111194	18.7548	18.75
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	98233	21.3021	21.30
	33 1,2-Dichloroethane	62	4.552	4.553	(0.917)	101083	18.8139	18.81
	34 Carbon Tetrachloride	117	4.264	4.260	(0.859)	98364	22.2824	22.28
$	35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	199553	39.9608	39.96
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	646301	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	311857	19.6235	19.62
	38 Trichloroethene	130	5.205	5.205	(1.048)	88686	20.7185	20.71
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	106010	18.7921	18.79
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	80681	18.8387	18.83
	44 Dibromomethane	93	5.553	5.553	(1.119)	50494	18.4838	18.48
	45 4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	134180	36.7530	36.75
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	135209	18.9761	18.97
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	577013	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	754474	52.7449	52.74
	50 Toluene	91	6.445	6.446	(0.841)	334653	22.1056	22.10
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	111803	18.9008	18.90
	52 2-Hexanone	43	7.086	7.083	(0.924)	88881	35.4715	35.47
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	64608	19.6296	19.62
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	130101	19.8891	19.88
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	92277	19.8463	19.84
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	75843	24.9913	24.99
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	82138	20.1898	20.18
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	67692	23.1948	23.19
	59 Chlorobenzene	112	7.694	7.694	(1.003)	231982	21.4428	21.44
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	84668	20.3088	20.30
	61 Ethylbenzene	106	7.799	7.799	(1.017)	118207	22.2015	22.20
	62 m,p-Xylenes	106	7.904	7.900	(1.031)	299950	44.7648	44.76
	63 o-Xylene	106	8.241	8.241	(1.075)	145325	21.5840	21.58
	64 Styrene	104	8.260	8.256	(1.077)	246272	22.1361	22.13
	66 Bromoform	173	8.410	8.410	(1.097)	63503	19.7522	19.75
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	362337	23.4967	23.49
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	104171	18.8965	18.89
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	270932	49.5947	49.59
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	316378	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	75618	18.2518	18.25(M)
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	416755	23.7009	23.70
	74 Bromobenzene	156	8.803	8.803	(0.911)	107814	21.1961	21.19

75	1,3,5-Trimethylbenzene	105	9.066	9.066 (0.938)	315433	23.1279	23.12
76	2-Chlorotoluene	91	8.972	8.972 (0.929)	262664	22.2175	22.21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	77 4-Chlorotoluene	91	9.069	9.070	(0.939)	299502	22.4765	22.47
	78 tert-Butylbenzene	119	9.332	9.336	(0.966)	263312	24.2396	24.23
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	319987	22.8768	22.87
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	364139	24.7320	24.73
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	329903	25.1108	25.11
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	191762	21.7976	21.79
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	194887	20.6117	20.61
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	276600	26.1223	26.12
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	189769	21.5667	21.56
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	17870	18.5593	18.55
	90 1,2,4-Trichlorobenzene	180	11.337	11.338	(1.173)	143468	22.3017	22.30
	91 Hexachlorobutadiene	225	11.480	11.476	(1.188)	64408	27.1953	27.19
	92 Naphthalene	128	11.544	11.540	(1.195)	315999	20.4664	20.46
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	131337	21.3354	21.33
M	94 1,2-Dichloroethylene (total)	96				159840	36.6484	36.64
M	95 Xylenes (total)	106				445275	66.3489	66.34
	141 Cyclohexane	56	4.121	4.121	(0.987)	111155	23.7631	23.76
	138 Freon TF	101	1.913	1.913	(0.458)	57625	23.4463	23.44
	147 Methylcyclohexane	55	5.381	5.377	(1.084)	178562	20.0099	20.00
	146 Methyl Acetate	43	2.236	2.228	(0.535)	37834	14.1349	14.13
	148 Tert-Butyl alcohol	59	2.427	2.423	(0.581)	138324	283.639	283.63
	149 Isopropyl Alcohol	45	2.093	2.090	(0.501)	73788	283.157	283.15

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Chloroethane (75-00-3)

Reason Code:

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04-Apr-2023
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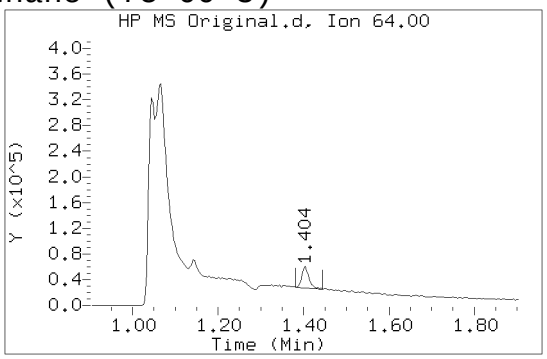

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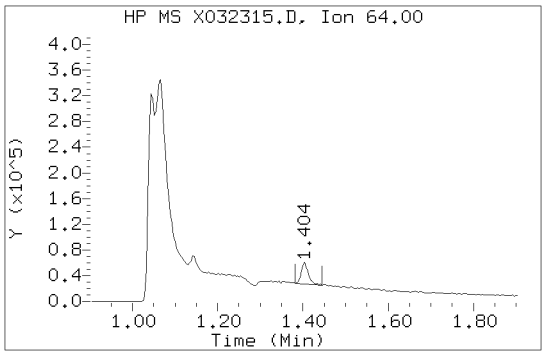

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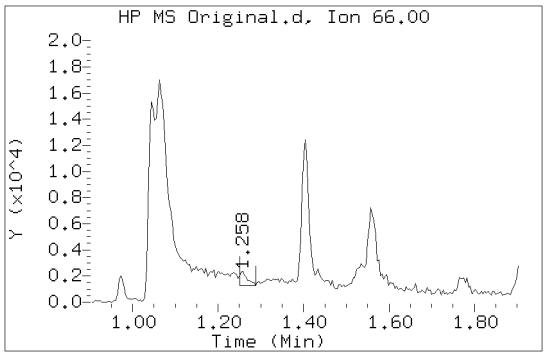

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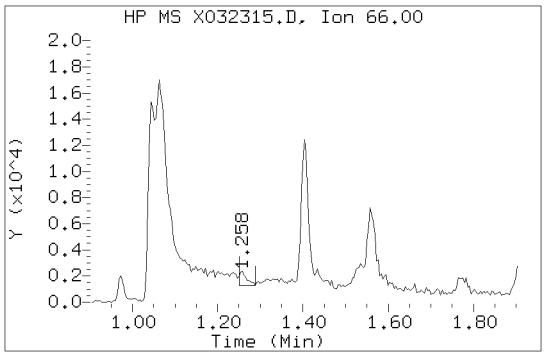

1,2,3-Trichloropropane (96-18-4)

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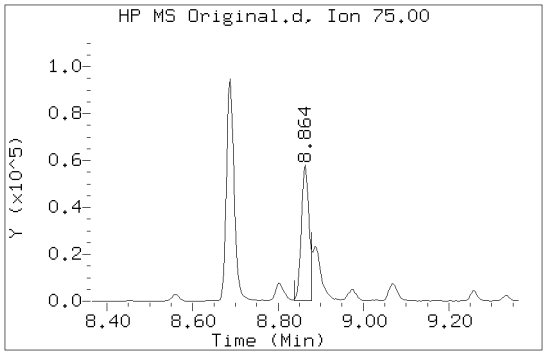

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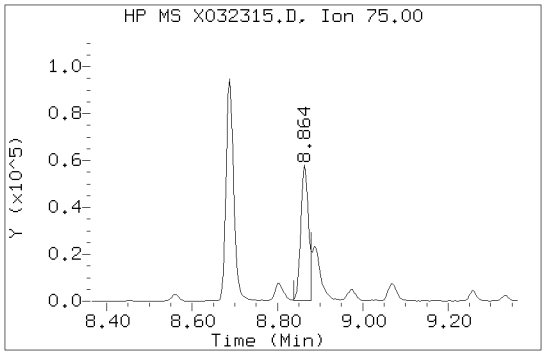

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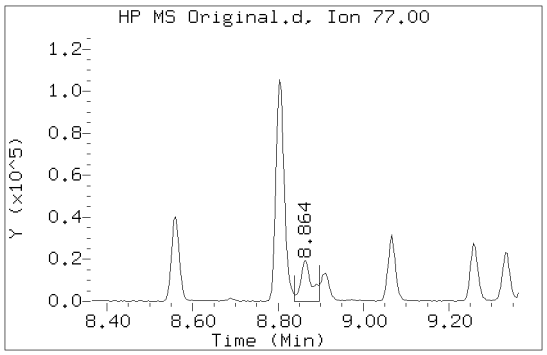

AFTER

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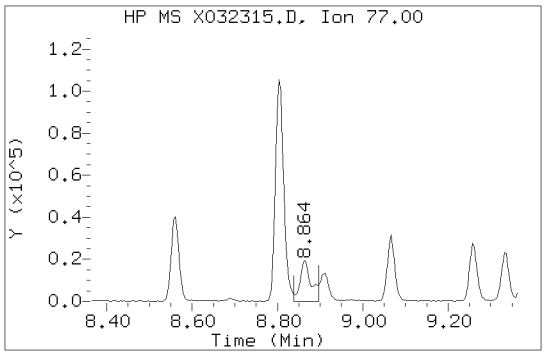

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Report Date: 04-Apr-2023 11:52

ALS Laboratory Group

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Inj Date : 23-MAR-2023 15:42
Operator : PC Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
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Als bottle: 15 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	287924	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	35523	1000.00	929.80
140 1,3-Butadiene	54	1.164	1.164	(0.279)	74070	50.0000	37.93
25 Methacrylonitrile	41	3.822	3.822	(0.915)	128277	50.0000	48.33
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	376452	1000.00	958.31
13 Acetonitrile	39	2.198	2.198	(0.526)	120102	500.000	448.19
14 Allyl Chloride	41	2.198	2.198	(0.526)	293280	50.0000	44.24
4 Propionitrile	54	3.649	3.649	(0.873)	198369	500.000	488.96
142 Tetrahydrofuran	42	3.837	3.837	(0.918)	44240	100.000	94.09
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	240072	50.0000	46.62
156 Diisopropyl ether	45	3.001	3.001	(0.718)	398701	50.0000	44.60
182 Epichlorohydrin	57	6.093	6.093	(1.227)	53096	200.000	208.94
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	524574	50.0000	46.31
2 Dichlorodifluoromethane	85	0.973	0.973	(0.233)	81559	50.0000	41.82
3 Chloromethane	50	1.078	1.078	(0.258)	111153	50.0000	41.96
5 Vinyl Chloride	62	1.145	1.145	(0.274)	92572	50.0000	40.82
6 Bromomethane	94	1.340	1.340	(0.321)	59165	50.0000	45.37
7 Chloroethane	64	1.404	1.404	(0.336)	74917	50.0000	46.58(M)
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	116642	50.0000	43.36
9 Acrolein	56	1.445	1.445	(0.346)	12157	100.000	75.09

10 Acetone	43	1.970	1.970 (0.472)	62012	100.000	81.38
11 1,1-Dichloroethene	96	1.913	1.913 (0.458)	73395	50.0000	42.44

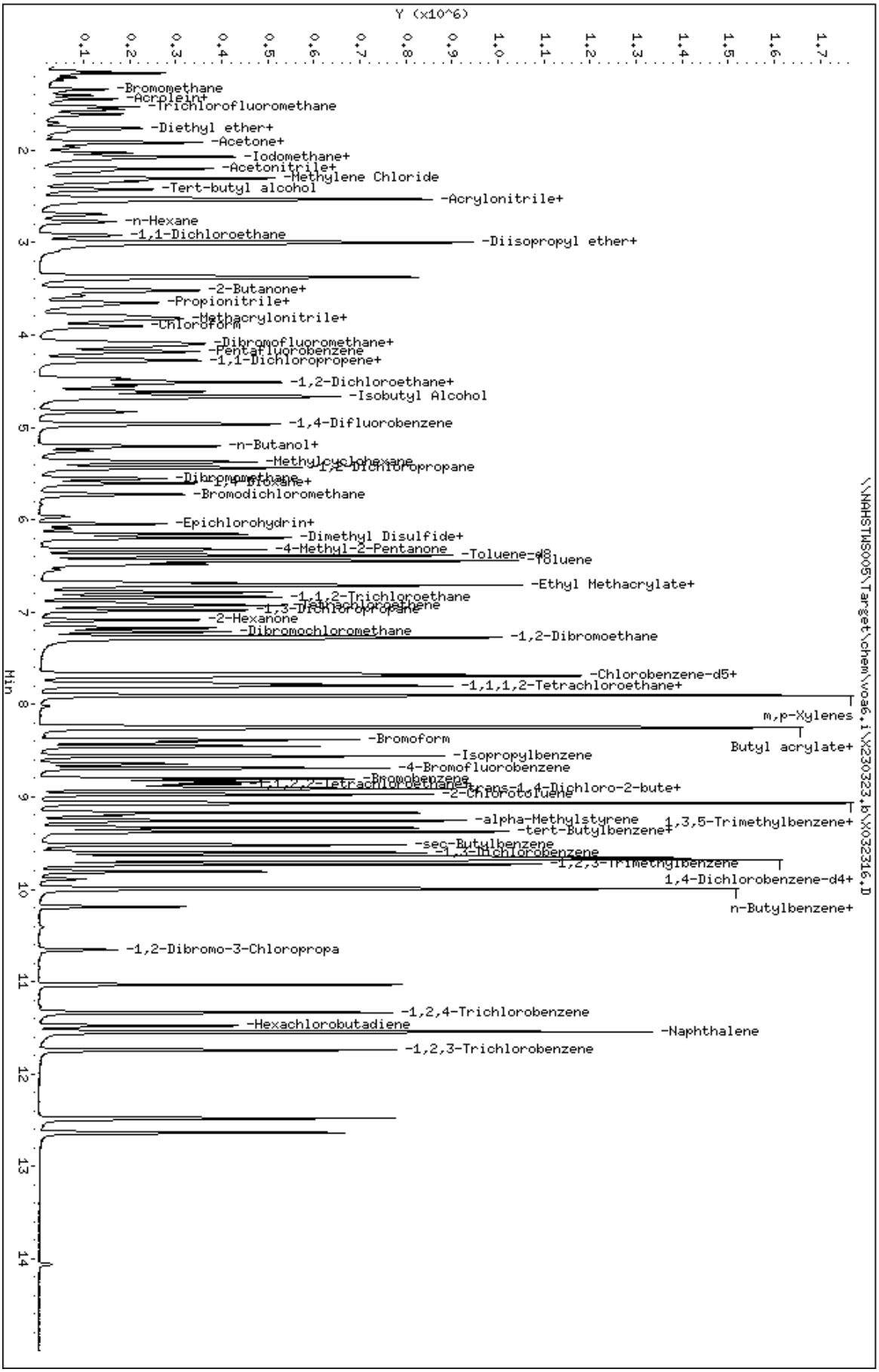
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	15 Iodomethane	142	2.026	2.026	(0.485)	211991	100.000	103.78
	16 Acrylonitrile	53	2.532	2.532	(0.606)	89429	100.000	93.07
	17 Methylene Chloride	84	2.303	2.303	(0.551)	138286	50.0000	49.09
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	420849	50.0000	46.22
	19 Carbon Disulfide	76	2.071	2.071	(0.496)	537267	100.000	84.57
	20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	111299	50.0000	45.63
	21 Vinyl Acetate	43	2.997	2.997	(0.717)	687425	100.000	93.54
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	197226	50.0000	44.65
	24 2-Butanone	43	3.574	3.574	(0.856)	98037	100.000	95.09
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	150600	50.0000	43.25
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	137385	50.0000	46.55
	28 Chloroform	83	3.904	3.904	(0.935)	214838	50.0000	43.82
	29 Bromochloromethane	128	3.792	3.792	(0.908)	75728	50.0000	45.34
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	136432	50.0000	50.86
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	160229	50.0000	43.71
	32 1,1-Dichloropropene	75	4.283	4.283	(0.863)	135012	50.0000	42.48
	33 1,2-Dichloroethane	62	4.553	4.553	(0.917)	171526	50.0000	46.32
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	128280	50.0000	42.16
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	147080	50.0000	47.43
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	445431	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	497653	50.0000	45.43
	38 Trichloroethene	130	5.205	5.205	(1.048)	139762	50.0000	47.37
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	182331	50.0000	46.89
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	109523	100.000	92.65
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	135110	50.0000	45.77
	44 Dibromomethane	93	5.550	5.550	(1.118)	91448	50.0000	48.57
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.825)	264142	100.000	99.84
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	233699	50.0000	47.58
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	418139	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	528816	50.0000	51.01
	50 Toluene	91	6.446	6.446	(0.841)	525119	50.0000	47.86
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	197767	50.0000	48.51
	52 2-Hexanone	43	7.083	7.083	(0.924)	175974	100.000	96.91
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	114748	50.0000	48.10
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	235570	50.0000	49.69
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	169240	50.0000	50.22
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	101393	50.0000	46.10
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	153923	50.0000	52.21
	58 1-Chlorohexane	55	7.698	7.698	(1.550)	80316	50.0000	38.31
	59 Chlorobenzene	112	7.694	7.694	(1.003)	373577	50.0000	47.65
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	147915	50.0000	48.95
	61 Ethylbenzene	106	7.799	7.799	(1.017)	173846	50.0000	45.05
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	443879	100.000	91.41
	63 o-Xylene	106	8.241	8.241	(1.075)	225320	50.0000	46.18
	64 Styrene	104	8.256	8.256	(1.077)	402429	50.0000	49.91
	66 Bromoform	173	8.410	8.410	(1.097)	126823	50.0000	54.43
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	491478	50.0000	43.98
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	200472	50.0000	48.71
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	205915	50.0000	52.02
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	236156	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	166020	50.0000	53.68
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	567940	50.0000	43.27

74	Bromobenzene	156	8.803	8.803 (0.911)	184891	50.0000	48.69
75	1,3,5-Trimethylbenzene	105	9.066	9.066 (0.938)	451263	50.0000	44.32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	391754	50.0000	44.39	
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	452077	50.0000	45.45	
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	353476	50.0000	43.59	
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	481927	50.0000	46.15	
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	456982	50.0000	41.58	
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	439118	50.0000	44.77	
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	308991	50.0000	47.05	
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	321671	50.0000	45.57	
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	342555	50.0000	43.34	
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	317510	50.0000	48.34	
	89 1,2-Dibromo-3-Chloropropane	155	10.652	10.652	(1.102)	39127	50.0000	51.58	
	90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	236626	50.0000	49.27	
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	76483	50.0000	41.54	
	92 Naphthalene	128	11.540	11.540	(1.194)	600054	50.0000	52.06	
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	229356	50.0000	49.91	
M	94 1,2-Dichloroethylene (total)	96				248684	100.000		(a)
	141 Cyclohexane	56	4.118	4.118	(0.986)	122103	50.0000	40.32	
	138 Freon TF	101	1.917	1.917	(0.459)	64717	50.0000	41.00	
	147 Methylcyclohexane	55	5.377	5.377	(1.083)	299552	50.0000	48.70	
	146 Methyl Acetate	43	2.232	2.232	(0.534)	81927	50.0000	49.50	
	148 Tert-Butyl alcohol	59	2.427	2.427	(0.581)	290888	1000.00	964.73	
	149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	153523	1000.00	952.85	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6,i\X230323,b\X032316,D
Date : 23-MAR-2023 15:42
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: PC
Column diameter: 0.18

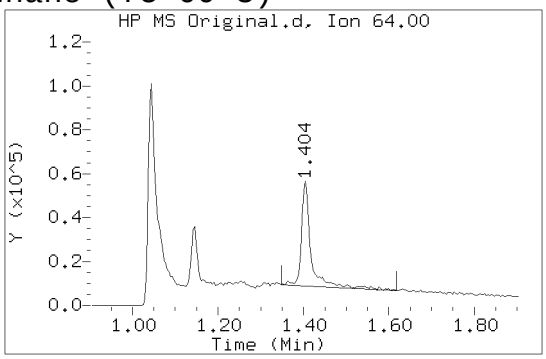
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032316.D
Inj Date : 23-MAR-2023 15:42
InstruID : voa6.i
LabSampID : CCV-END

Chloroethane (75-00-3)

Reason Code:

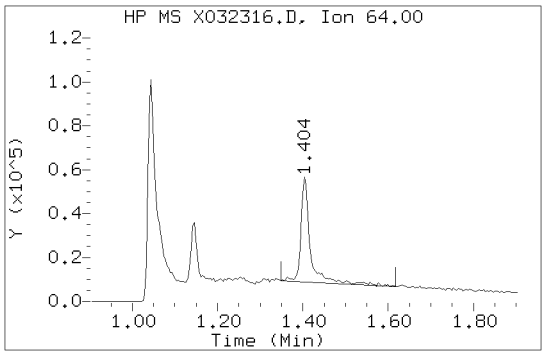
BEFORE

MASS
64
AREA
74917
HEIGHT
47637
04-Apr-2023
11:52
linh
pham



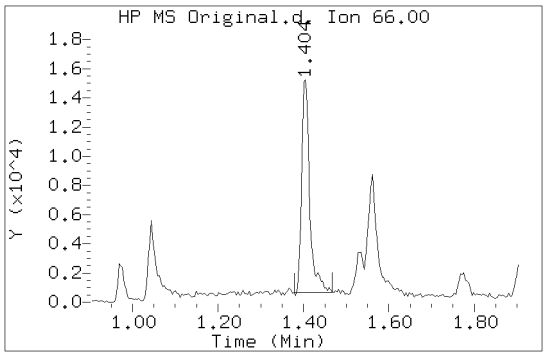
AFTER

MASS
64
AREA
74917
HEIGHT
47637
04-Apr-2023
11:52
linh
pham



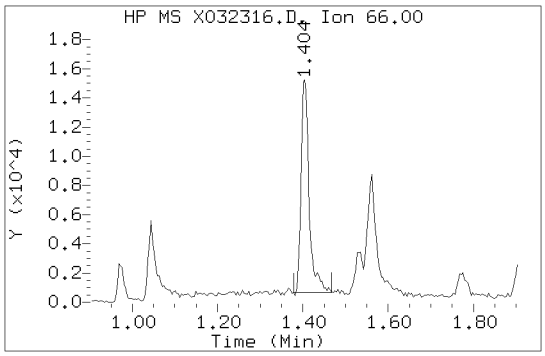
BEFORE

MASS
66
AREA
19773
HEIGHT
14577
04-Apr-2023
11:52
linh
pham



AFTER

MASS
66
AREA
19773
HEIGHT
14577
04-Apr-2023
11:52
linh
pham



HS23031291-MSSEMI-SW8270SIM

ALS WO# HS23031291

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Form 1

Organic Analysis Data Sheet

Semi-Volatiles by EPA 8270SIM

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

Semi-Volatiles by EPA 8270SIM

HS23031291-01	Collected	Received	Matrix	Basis
LH18/24-SP650_032123	03/21/23 13:00	03/22/23 10:00	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	1.3		0.10	0.10	0.10	10	03/30/23 15:33	SV-	10	191255

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

Semi-Volatiles by EPA 8270SIM

MBLK-191255	Collected	Received	Matrix	Basis
MBLK-191255	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.030	U	0.010	0.030	0.030	1	03/30/23 13:29	SV-	05	191255

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Form 2

System Monitoring Compound Recovery

Semi-Volatiles by EPA 8270SIM

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

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Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

RunID
SV-6_431416_191255

Semi-Volatiles by EPA 8270SIM

MBLK-191255	Analyzed 03/30/23	Conc Units ug/L	Dilution 1		
Surrogate	**Result Conc**	**Spike Conc**	**%Recovery**	**%Recovery Limits**	**Q**
2-Fluorobiphenyl	0.08506	0.08	106	40-140	
4-Terphenyl-d14	0.08248	0.08	103	40-140	
Nitrobenzene-d5	0.07096	0.08	88.7	40-140	

LCS-191255	Analyzed 03/30/23	Conc Units ug/L	Dilution 1		
Surrogate	**Result Conc**	**Spike Conc**	**%Recovery**	**%Recovery Limits**	**Q**
2-Fluorobiphenyl	0.08091	0.08	101	40-140	
4-Terphenyl-d14	0.08731	0.08	109	40-140	
Nitrobenzene-d5	0.08457	0.08	106	40-140	

LCSD-191255	Analyzed 03/30/23	Conc Units ug/L	Dilution 1		
Surrogate	**Result Conc**	**Spike Conc**	**%Recovery**	**%Recovery Limits**	**Q**
2-Fluorobiphenyl	0.08791	0.08	110	40-140	
4-Terphenyl-d14	0.08675	0.08	108	40-140	
Nitrobenzene-d5	0.08762	0.08	110	40-140	

HS23031291-01	Analyzed 03/30/23	Conc Units ug/L	Dilution 10		
Surrogate	**Result Conc**	**Spike Conc**	**%Recovery**	**%Recovery Limits**	**Q**
2-Fluorobiphenyl	0.083	0.08	104	40-140	
4-Terphenyl-d14	0.23	0.08	286	40-140	*
Nitrobenzene-d5	0.070	0.08	87.6	40-140	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

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Form 3B

Laboratory Control Sample Recovery

Semi-Volatiles by EPA 8270SIM

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

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Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

Semi-Volatiles by EPA 8270SIM

SV-6_431416_191255		QC ID	LCS-191255			LCSD-191255					
QC Matrix	Aqueous	Run Date	03/30/23			03/30/23					
Prep Method	SW3510	Units	Run Time	13:47			14:05				
Prep Batch	191255 03/24/23	ug/L	Prep Amt	1000 mL			1000 mL				
Analyte		%R Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,4-Dioxane		40-140	0.08	0.06655	83		0.06461	81.0		20	2.96	
2-Fluorobiphenyl		40-140	0.08	0.08091	101		0.08791	110.0		20	8.29	
4-Terphenyl-d14		40-140	0.08	0.08731	109		0.08675	108.0		20	0.639	
Nitrobenzene-d5		40-140	0.08	0.08457	106		0.08762	110.0		20	3.54	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

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Form 4

Method Blank Summary

Semi-Volatiles by EPA 8270SIM

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

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Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

Semi-Volatiles by EPA 8270SIM

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	MBLK-191255	05.D	03/30/23 13:29	SV-6_431416_191255
LCS-191255	LCS	LCS-191255	06.D	03/30/23 13:47	SV-6_431416_191255
LCSD-191255	LCSD	LCSD-191255	07.D	03/30/23 14:05	SV-6_431416_191255
LH18/24-SP650_032123	SAMP	HS23031291-01	10.D	03/30/23 15:33	SV-6_431416_191255

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Form 5

Instrument Performance Check

Semi-Volatiles by EPA 8270SIM

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
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www.alsglobal.com

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

RunID
SV-6_427063

Tune File 01.D 01/26/23 10:28

m / e	Ion Abundance Criterion	%RA
51	30.0 - 80.0% of mass 198	66.8 (66.77)
68	Less than 2.0% of mass 69	0.7 (1.46) 1
69	Mass 69 RA	46 (45.99)
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	25.0 - 75.0% of mass 198	51.7 (51.66)
197	Less than 1.0% of mass 198	0.6 (0.64)
198	Base peak, 100% RA	100 (100)
199	5.0 - 9.0% of mass 198	6.8 (6.75)
275	10.0 - 30.0% of mass 198	22.3 (22.35)
365	Greater than 0.75% of mass	2.9 (2.89)
441	Present, but less than mass	9.8 (71.9)
442	40.0 - 110.0% of mass 198	66.1 (66.06)
443	15.0 - 24.0% of mass 442	13.6 (20.62) 2

Value is % of mass 1) 69 2) 442 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	ICAL1	01/26/23 17:04	18	1 4-DX-0.01
2	ICAL2	01/26/23 17:22	19	1 4-DX-0.03
3	ICAL3	01/26/23 17:40	20	1 4-DX-0.05
4	ICAL4	01/26/23 17:58	21	1 4-DX-0.08
5	ICAL5	01/26/23 18:16	22	1 4-DX-0.1
6	ICAL6	01/26/23 18:34	23	1 4-DX-0.15
7	ICAL7	01/26/23 18:51	24	1 4-DX-0.2
8	ICAL8	01/26/23 19:09	25	1 4-DX-0.5
9	ICV	01/26/23 19:27	26	1 4-DX-ICV

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

RunID
SV-6_431416

Tune File 01.D 03/30/23 10:53

m / e	Ion Abundance Criterion	%RA
51	30.0 - 80.0% of mass 198	45.1 (45.13)
68	Less than 2.0% of mass 69	0 (0) 1
69	Mass 69 RA	46.7 (46.72)
70	Less than 2.0% of mass 69	0.2 (0.52) 1
127	25.0 - 75.0% of mass 198	50.3 (50.31)
197	Less than 1.0% of mass 198	0 (0)
198	Base peak, 100% RA	100 (100)
199	5.0 - 9.0% of mass 198	6.9 (6.92)
275	10.0 - 30.0% of mass 198	25.6 (25.59)
365	Greater than 0.75% of mass	3.2 (3.17)
441	Present, but less than mass	13 (69.78)
442	40.0 - 110.0% of mass 198	87.5 (87.48)
443	15.0 - 24.0% of mass 442	18.7 (21.34) 2

Value is % of mass 1) 69 2) 442 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	03/30/23 12:19	03	14DX-0.08
2	MBLK	03/30/23 13:29	05	MBLK-191255
3	LCS	03/30/23 13:47	06	LCS-191255
4	LCSD	03/30/23 14:05	07	LCSD-191255
5	SAMP	03/30/23 15:33	10	LH18/24-SP650_032123
6	CCV	03/30/23 16:22	12	14DX-CCV_END

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Form 6

Initial Calibration Data

Semi-Volatiles by EPA 8270SIM

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID SV-6_427063

ICAL Start Date 10-MAR-2022 1025
ICAL End Date 26-JAN-2023 1909

Calibration Files

Level 1	..SV6.i\230126.b\18.D	**Level 5**	..SV6.i\230126.b\22.D
Level 2	..SV6.i\230126.b\19.D	**Level 6**	..SV6.i\230126.b\23.D
Level 3	..SV6.i\230126.b\20.D	**Level 7**	..SV6.i\230126.b\24.D
Level 4	..SV6.i\230126.b\21.D	**Level 8**	..SV6.i\230126.b\25.D

Compound	Level 1 0.010 Level 7 0.200	Level 2 0.030 Level 8 0.500	Level 3 0.050	Level 4 0.080	Level 5 0.100	Level 6 0.150	Curve	b	m1	m2	%RSD or R^2	Q
1,4-Dioxane	0.46310 0.34382	0.38441 0.32997	0.40793	0.33224	0.32371	0.33309	AVRG		0.36478		13.63385	
	0.34382	0.32997					AVRG		0.36478		13.63385	
----------	----------	----------	----------	----------	----------	----------	-----	----------	----------	----------	----------	
Nitrobenzene-d5	0.25894 0.30550	0.28069 0.29426	0.30421	0.28403	0.28044	0.30017	AVRG		0.28853		5.44076	
2-Fluorobiphenyl	1.34238 1.34111	1.24919 1.36027	1.26097	1.30443	1.30577	1.33599	AVRG		1.31252		3.06364	
158 4-Terphenyl-d14	1097 24628	2568 48596	5479	7348	8150	13832	QUAD	0.15559	0.48409	-0.00721	0.99726	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

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Form 6I

Initial Calibration Verification (ICV)

Semi-Volatiles by EPA 8270SIM

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID SV-6_427063

Instrument ID SV6.i ICAL Date 26-JAN-2023
Lab File ID 26.D ICAL Time 1758
?VAL? ?VAL? Conc Units ug/L
Analysis Type SV Level LOW

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
1,4-Dioxane	0.08000	0.03481	43.51	40-140	
Nitrobenzene-d5	0.08000	0.07196	89.95	40-140	
2-Fluorobiphenyl	0.08000	0.07917	98.96	40-140	
158 4-Terphenyl-d14	0.08000	0.08903	111.29	40-140	

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Form 7

Continuing Calibration Verification (CCV)

Semi-Volatiles by EPA 8270SIM

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

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Phone (281) 530-5656 Fax (281) 530-5887
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Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID SV-6_431416

Instrument ID SV6.i Injection Date 30-MAR-2023 1219
Lab File ID 03.D ICAL Date(s) 10-MAR-2022 26-JAN-2023
Analysis Type WATER ICAL Times 1025 1909
Lab Sample ID 14DX-0.08 Quant Type ISTD

Compound	$\overline{RRF}$ / $\overline{RRF}$ / Amount	RF0.080	CCV RRF0.080	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Nitrobenzene-d5	0.28853	0.29073	0.29073	0.010	0.76475	20.0	Averaged	
2-Fluorobiphenyl	1.31252	1.32736	1.32736	0.010	1.13089	20.0	Averaged	
158 4-Terphenyl-d14	0.08000	0.07693	1.61580	0.010	-3.83794	20.0	Quadratic	
1,4-Dioxane	0.36478	0.31923	0.31923	0.010	-12.48803	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder HS23031291

RunID SV-6_431416

Instrument ID SV6.i
Lab File ID 12.D
Analysis Type WATER
Lab Sample ID 14DX-CCV_END
Injection Date 30-MAR-2023 1622
ICAL Date(s) 10-MAR-2022 26-JAN-2023
ICAL Times 1025 1909
Quant Type ISTD

Compound	$\overline{RRF}$ / $\overline{RRF}$ / Amount	RF0.080	CCV RRF0.080	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Nitrobenzene-d5	0.28853	0.21702	0.21702	0.010	-24.78426	50.0	Averaged	
2-Fluorobiphenyl	1.31252	1.10876	1.10876	0.010	-15.52426	50.0	Averaged	
158 4-Terphenyl-d14	0.08000	0.07980	1.69303	0.010	-0.24673	50.0	Quadratic	
1,4-Dioxane	0.36478	0.30022	0.30022	0.010	-17.69795	50.0	Averaged	

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS23031291

Lab File ID (Standard): 03 Date Analyzed: 03/30/23

Instrument ID: SV6 Time Analyzed: 1219

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	3344	2.33	12606	3.37	7756	4.99
	UPPER LIMIT	6688	2.83	25212	3.87	15512	5.49
	LOWER LIMIT	1672	1.83	6303	2.87	3878	4.49
	CLIENT SAMPLE NO.						
01	MBLK-191255	3205	2.34	12973	3.37	7926	4.99
02	LCS-191255	2698	2.34	10803	3.37	6873	4.99
03	LCSD-191255	2919	2.34	12373	3.37	6643	4.99
04	HS23031291-01	2597	2.34	10637	3.37	7564	4.99
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS23031291

Lab File ID (Standard): 03 Date Analyzed: 03/30/23

Instrument ID: SV6 Time Analyzed: 1219

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	12070	6.39	4808	8.92	2850	10.45
	UPPER LIMIT	24140	6.89	9616	9.42	5700	10.95
	LOWER LIMIT	6035	5.89	2404	8.42	1425	9.95
	CLIENT SAMPLE NO.						
01	MBLK-191255	13311	6.39	4386	8.92	2539	10.44
02	LCS-191255	10959	6.39	3794	8.92	2285	10.44
03	LCSD-191255	13706	6.39	4053	8.92	2291	10.44
04	HS23031291-01	11901	6.39	5045	8.92	2862	10.45
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

01184642

right solutions.
right partner.

Form 12

Preparation Log

Semi-VolatilesEPA 3510

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 12 - Preparation Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

RunID
191255

Semi-VolatilesEPA 3510

Prep Batch 191255 **Prep Method** **Prep Date** 03/24/23

	Matrix	Type	Lab Sample ID	Initial Amt (mL)	Final Amt (mL)	Client Sample ID
1	Aqueous	MBLK	MBLK-191255	1000	1	MBLK-191255
2	Aqueous	LCS	LCS-191255	1000	1	LCS-191255
3	Aqueous	LCSD	LCSD-191255	1000	1	LCSD-191255
4	Water	SAMP	HS23031291-01	1000	1	LH18/24-SP650_032123

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Analysis Run Log

Semi-Volatiles by EPA 8270SIM

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

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Quarterly Effluent Samples

04/04/2023

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10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

RunID
SV-6_427063

Run ID SV-6_427063 **Start Date** 01/26/23 **EndDate** 01/26/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:28	DFTPP	TUNE	DFTPP	01.D	01/26/23	1
17:04	1 4-DX-0.01	ICAL1	1 4-DX-0.01	18.D	01/26/23	1
17:22	1 4-DX-0.03	ICAL2	1 4-DX-0.03	19.D	01/26/23	1
17:40	1 4-DX-0.05	ICAL3	1 4-DX-0.05	20.D	01/26/23	1
17:58	1 4-DX-0.08	ICAL4	1 4-DX-0.08	21.D	01/26/23	1
18:16	1 4-DX-0.1	ICAL5	1 4-DX-0.1	22.D	01/26/23	1
18:34	1 4-DX-0.15	ICAL6	1 4-DX-0.15	23.D	01/26/23	1
18:51	1 4-DX-0.2	ICAL7	1 4-DX-0.2	24.D	01/26/23	1
19:09	1 4-DX-0.5	ICAL8	1 4-DX-0.5	25.D	01/26/23	1
19:27	1 4-DX-ICV	ICV	1 4-DX-ICV	26.D	01/26/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Effluent Samples

Workorder
HS23031291

RunID
SV-6_431416

Run ID SV-6_431416 **Start Date** 03/30/23 **EndDate** 03/30/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:53	DFTPP	TUNE	DFTPP	01.D	03/30/23	1
12:19	14DX-0.08	CCV	14DX-0.08	03.D	03/30/23	1
13:29	MBLK-191255	MBLK	MBLK-191255	05.D	03/30/23	1
13:47	LCS-191255	LCS	LCS-191255	06.D	03/30/23	1
14:05	LCSD-191255	LCSD	LCSD-191255	07.D	03/30/23	1
15:33	LH18/24-SP650_032123	SAMP	HS23031291-01	10.D	03/30/23	10
15:51	ZZZZZZZZZZ	SAMP	HS23031294-01	11.D	03/30/23	10
16:22	14DX-CCV_END	CCV	14DX-CCV_END	12.D	03/30/23	1

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right partner.

Raw Data SV-6 427063

Semi-Volatiles by EPA 8270SIM

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\SV6.i\230126.b\01.D Page 1
Report Date: 26-Jan-2023 10:45

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\SV6.i\230126.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 26-JAN-2023 10:28
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230126.b\DFTPP.m
Meth Date : 27-Sep-2022 15:32 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7053

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.512	6.357	-0.845	198	193536			0.00- 100.00	100.00
5.512	6.357	-0.845	51	129216			10.00- 80.00	66.77
5.512	6.357	-0.845	68	1295			0.00- 2.00	1.46
5.512	6.357	-0.845	69	89000			0.00- 0.00	45.99
5.512	6.357	-0.845	70	442			0.00- 2.00	0.50
5.512	6.357	-0.845	127	99984			10.00- 80.00	51.66
5.512	6.357	-0.845	197	1243			0.00- 2.00	0.64
5.512	6.357	-0.845	199	13064			5.00- 9.00	6.75
5.512	6.357	-0.845	275	43248			10.00- 60.00	22.35
5.512	6.357	-0.845	365	5595			1.00- 100.00	2.89
5.512	6.357	-0.845	441	18955			0.01- 99.99	71.90
5.512	6.357	-0.845	442	127856			50.00- 150.00	66.06
5.512	6.357	-0.845	443	26364			15.00- 24.00	20.62

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	66.77
68	Less than 2.00% of mass 69	0.67 (1.46)
69	Mass 69 relative abundance	45.99
70	Less than 2.00% of mass 69	0.23 (0.50)
127	10.00 - 80.00% of mass 198	51.66
197	Less than 2.00% of mass 198	0.64
199	5.00 - 9.00% of mass 198	6.75
275	10.00 - 60.00% of mass 198	22.35
365	1.00 - 100.00% of mass 198	2.89
441	Present, but less than mass 443	9.79
442	50.00 - 150.00% of mass 198	66.06
443	15.00 - 24.00% of mass 442	13.62 (20.62)

Data File: 01.D
Spectrum: Average Spectrum: 5.507 to 5.513 min. (SUB)
Location of Maximum: 198.00
Number of points: 290

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	217	119.00	229	192.00	2286	275.00	43248
37.00	514	120.00	376	193.00	2572	276.00	5775
38.00	1355	121.00	179	194.00	592	277.00	3723
39.00	8934	122.00	1920	195.00	298	278.00	656
40.00	412	123.00	2801	196.00	5470	279.00	78
41.00	185	124.00	1231	197.00	1243	282.00	81
44.00	120	125.00	1201	198.00	193536	283.00	451
45.00	317	126.00	425	199.00	13064	284.00	151
47.00	16	127.00	99984	200.00	968	285.00	595
48.00	34	128.00	7552	201.00	759	289.00	103
49.00	524	129.00	37992	203.00	1495	290.00	117
50.00	32504	130.00	3182	204.00	7454	292.00	119
51.00	129216	131.00	656	205.00	11707	293.00	847
52.00	6384	132.00	349	206.00	49064	294.00	141
53.00	300	133.00	185	207.00	6667	295.00	152
55.00	505	134.00	959	208.00	1729	296.00	12631
56.00	3218	135.00	3285	209.00	569	297.00	1881
57.00	8074	136.00	1288	210.00	823	298.00	84
58.00	366	137.00	1637	211.00	2069	301.00	93
59.00	160	138.00	313	212.00	111	302.00	145
60.00	93	139.00	94	215.00	452	303.00	1444
61.00	1093	140.00	374	216.00	1121	304.00	374
62.00	1414	141.00	4740	217.00	13752	308.00	182
63.00	4094	142.00	1585	218.00	1740	310.00	122
64.00	617	143.00	1133	219.00	136	313.00	96
65.00	1764	144.00	318	221.00	8835	314.00	596
68.00	1295	145.00	268	222.00	1698	315.00	1450
69.00	89000	146.00	897	223.00	3084	316.00	747
70.00	442	147.00	2321	224.00	28120	317.00	100
73.00	734	148.00	6303	225.00	7126	321.00	402
74.00	9210	149.00	1351	226.00	705	322.00	114
75.00	14469	150.00	311	227.00	11425	323.00	3809
76.00	5296	151.00	788	228.00	1723	324.00	667
77.00	109104	152.00	130	229.00	2473	327.00	745
78.00	7193	153.00	1484	230.00	306	328.00	397
79.00	5737	154.00	1179	231.00	1030	332.00	213
80.00	4513	155.00	2909	232.00	122	333.00	360
81.00	6984	156.00	4204	233.00	200	334.00	2281
82.00	1737	157.00	875	234.00	792	335.00	664
83.00	1608	158.00	888	235.00	804	341.00	420
84.00	100	159.00	574	236.00	604	342.00	94
85.00	1106	160.00	1418	237.00	980	346.00	876
86.00	1911	161.00	2169	239.00	463	347.00	90
87.00	861	162.00	610	240.00	349	352.00	1204
88.00	416	163.00	130	241.00	678	353.00	726

89.00	111	164.00	264	242.00	1520	354.00	1096
91.00	1346	165.00	1722	243.00	1675	355.00	167
92.00	1546	166.00	1430	244.00	21280	365.00	5595
93.00	10758	167.00	11430	245.00	2833	366.00	846
94.00	730	168.00	5437	246.00	4112	371.00	204
95.00	254	169.00	910	247.00	793	372.00	1924
96.00	578	170.00	314	248.00	155	373.00	483
97.00	185	171.00	347	249.00	677	383.00	611
98.00	8469	172.00	876	250.00	96	384.00	89
99.00	6391	173.00	1222	251.00	119	390.00	303
100.00	554	174.00	2109	252.00	140	391.00	101
101.00	3920	175.00	4009	253.00	539	392.00	78
102.00	95	176.00	942	254.00	897	402.00	723
103.00	1112	177.00	1540	255.00	101648	403.00	979
104.00	2172	178.00	586	256.00	15149	404.00	375
105.00	2141	179.00	6883	257.00	1243	421.00	1045
106.00	701	180.00	5020	258.00	6329	422.00	904
107.00	29928	181.00	2480	259.00	1058	423.00	6439
108.00	4427	182.00	418	260.00	95	424.00	1320
109.00	761	183.00	203	261.00	118	425.00	81
110.00	50136	184.00	508	264.00	117	439.00	85
111.00	8075	185.00	3541	265.00	2500	441.00	18952
112.00	1093	186.00	26968	266.00	460	442.00	127856
113.00	321	187.00	7777	270.00	85	443.00	26360
115.00	85	188.00	712	271.00	285	444.00	2474
116.00	1538	189.00	1516	272.00	355	445.00	113
117.00	28128	190.00	294	273.00	3179		
118.00	1966	191.00	810	274.00	7971		

Data File: \\nahstws005\Target\chem\SV6.i\230126.b\01.D

Date : 26-JAN-2023 10:28

Client ID: DFTPP

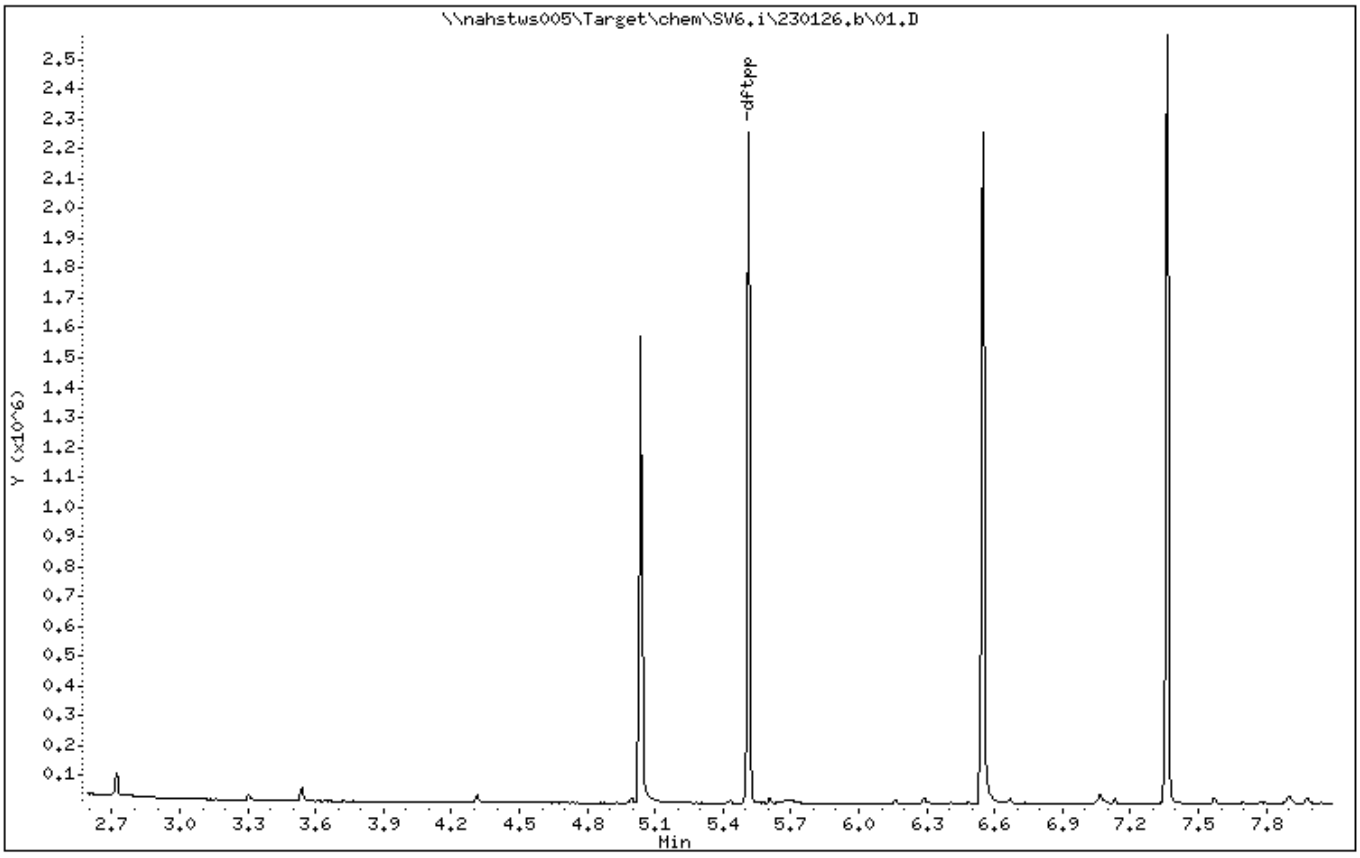
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File : \\nahstws005\Target\chem\SV6.i\230126.b\01.D
Inj Date : 26-JAN-2023 10:28
InstruID : SV6.i
LabSampID : DFTPP

NO MANUAL INTEGRATIONS

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230126.b\18.D
Lab Smp Id: 1 4-DX-0.01 Client Smp ID: 1 4-DX-0.01
Inj Date : 26-JAN-2023 17:04
Operator : LG Inst ID: SV6.i
Smp Info : 1 4-DX-0.01;1 4-DX-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230126.b\DXSIM.m
Meth Date : 27-Jan-2023 11:55 SV6.i Quant Type: ISTD
Cal Date : 26-JAN-2023 19:09 Cal File: 25.D
Als bottle: 17 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.625	3.625	(1.000)	5528	0.10000	(aM)
* 45 Naphthalene-d8	136	4.743	4.743	(1.000)	19696	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.097	4.097	(0.864)	510	0.01000	0.008974(QM)
* 86 Acenaphthene-d10	164	6.424	6.424	(1.000)	10608	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.775	5.775	(0.899)	1424	0.01000	0.01023(QM)
* 126 Phenanthrene-d10	188	7.879	7.879	(1.000)	20838	0.10000	
* 182 Chrysene-d12	240	10.746	10.746	(1.000)	9014	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.482	9.482	(0.882)	1097	0.01000	0.02144(M)
* 198 Perylene-d12	264	12.851	12.851	(1.000)	8255	0.10000	
1 1,4-Dioxane	58	1.865	1.865	(0.515)	256	0.01000	0.01270(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

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Data File: \\NAHSTWS005\Target\chem\SV6.i\230126.b\18.D

Date : 26-JAN-2023 17:04

Client ID: 1 4-DX-0.01

Instrument: SV6.i

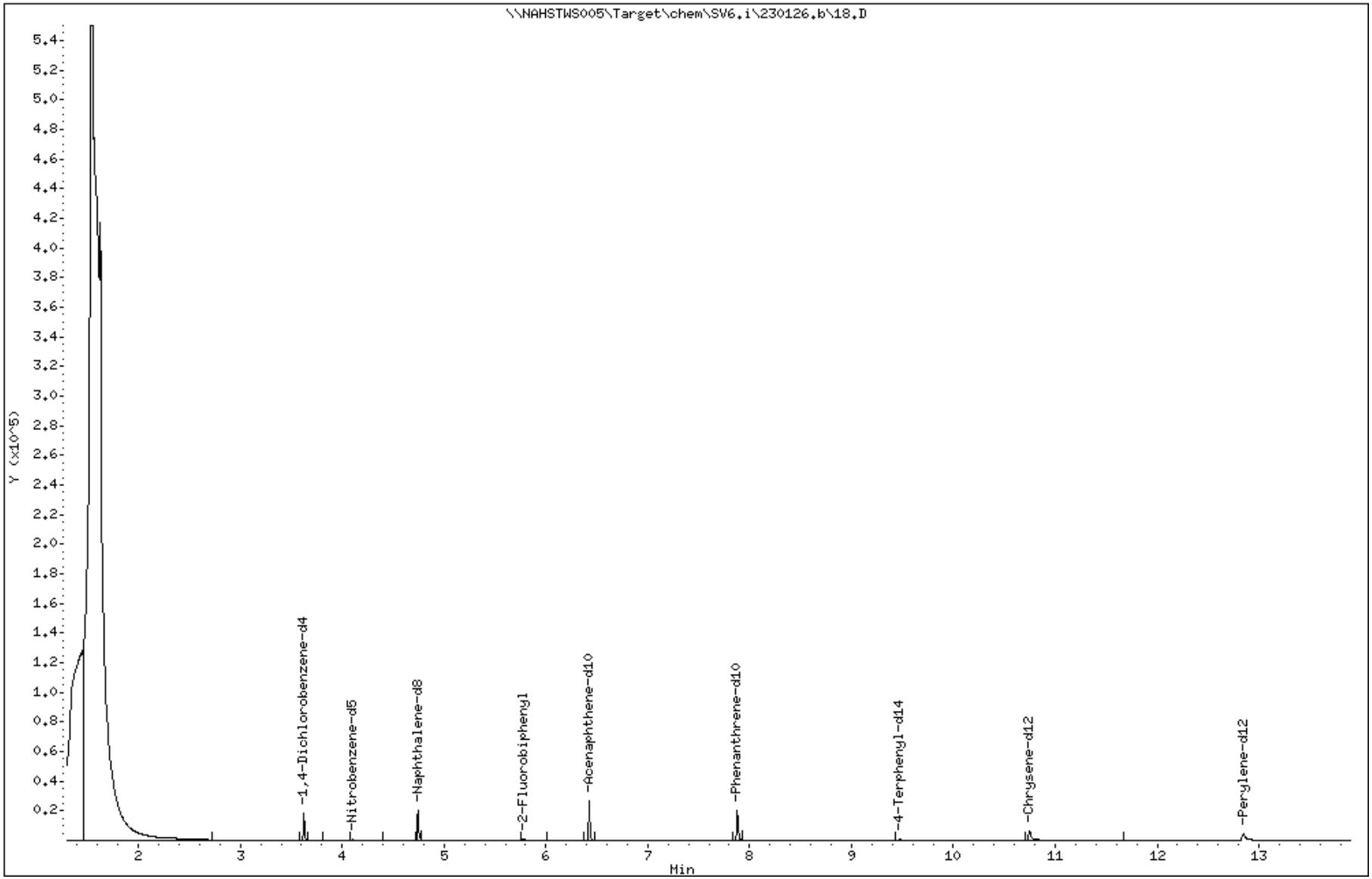
Sample Info: 1 4-DX-0.01;1 4-DX-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

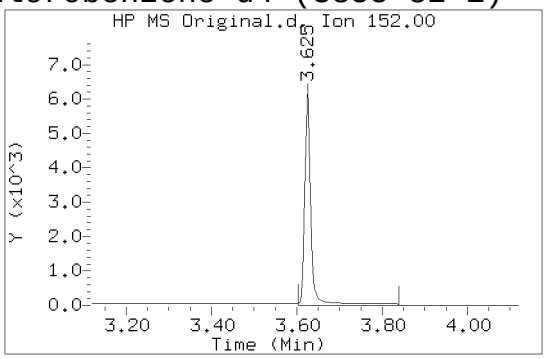


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\18.D
Inj Date : 26-JAN-2023 17:04
InstruID : SV6.i
LabSampID : 1 4-DX-0.01

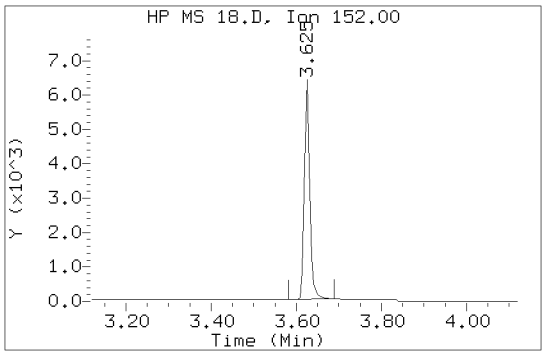
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

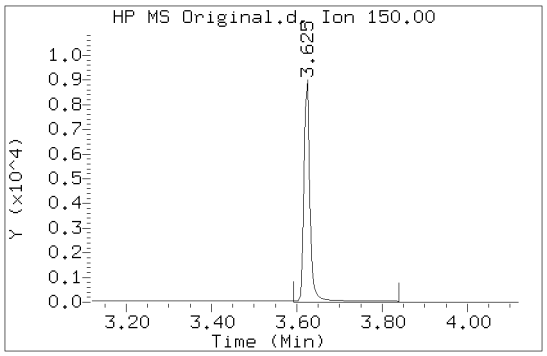
BEFORE
MASS
152
AREA
6387
HEIGHT
6448
26-Jan-2023
17:20
ALSHS
Server



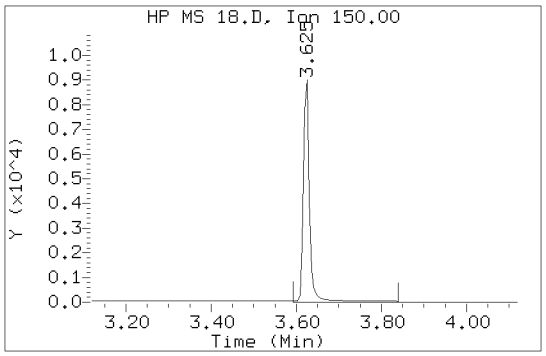
AFTER
MASS
152
AREA
5528
HEIGHT
6387
27-Jan-2023
11:55



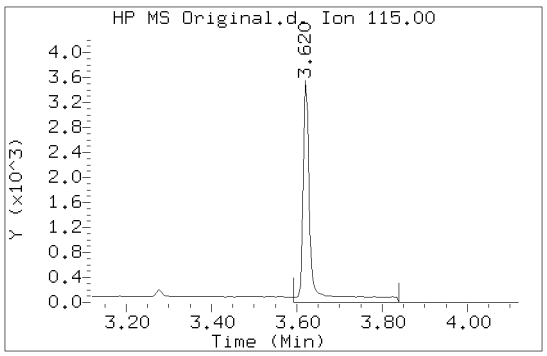
BEFORE
MASS
150
AREA
9160
HEIGHT
9004
26-Jan-2023
17:20
ALSHS
Server



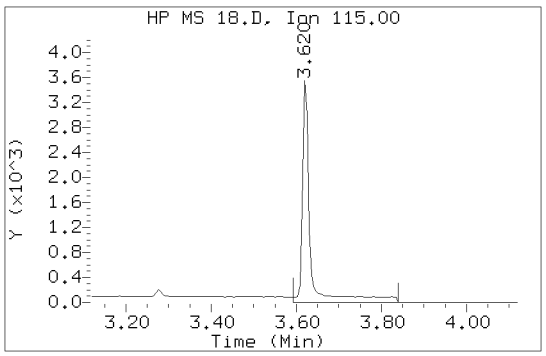
AFTER
MASS
150
AREA
9160
HEIGHT
9004
27-Jan-2023
11:55



BEFORE
MASS
115
AREA
4488
HEIGHT
3548
26-Jan-2023
17:20
ALSHS
Server



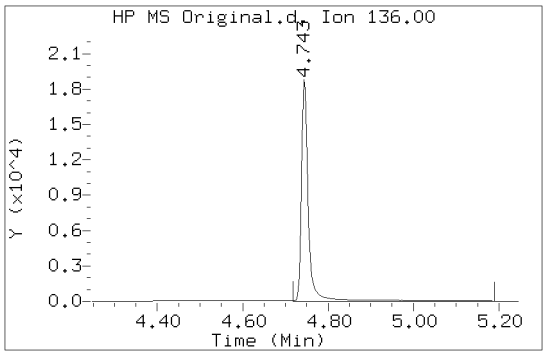
AFTER
MASS
115
AREA
4488
HEIGHT
3548
27-Jan-2023
11:55



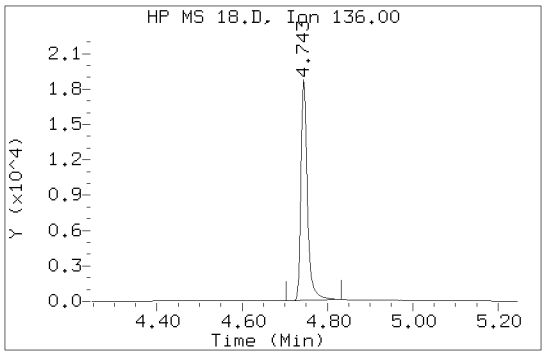
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
22286
HEIGHT
18792
26-Jan-2023
17:20
ALSHS
Server



AFTER
MASS
136
AREA
19696
HEIGHT
18700
27-Jan-2023
11:55

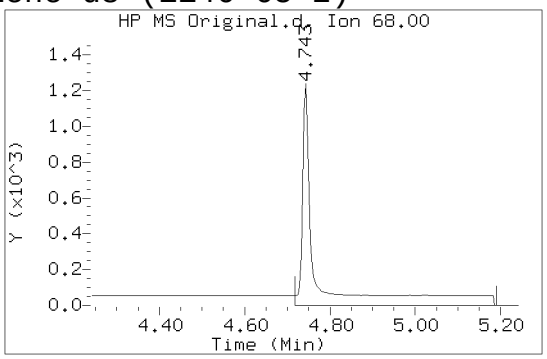


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\18.D
Inj Date : 26-JAN-2023 17:04
InstruID : SV6.i
LabSampID : 1 4-DX-0.01

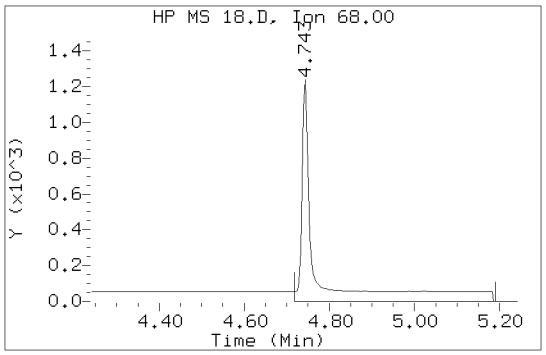
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
2767
HEIGHT
1239
26-Jan-2023
17:20
ALSHS
Server



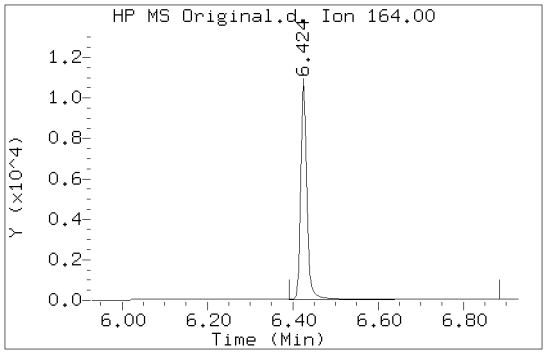
AFTER
MASS
68
AREA
2767
HEIGHT
1239
27-Jan-2023
11:55



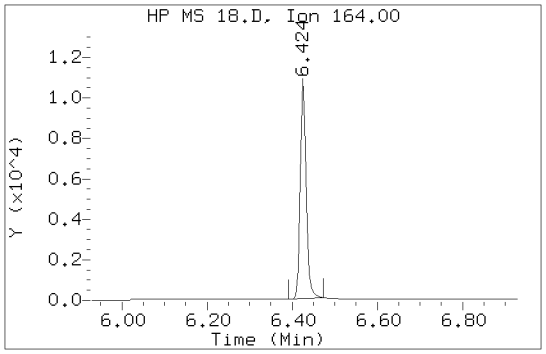
Acenaphthene-d10 (15067-26-2)

Reason Code:

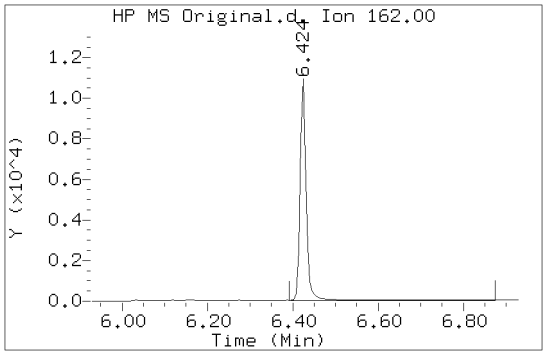
BEFORE
MASS
164
AREA
11469
HEIGHT
10928
26-Jan-2023
17:20
ALSHS
Server



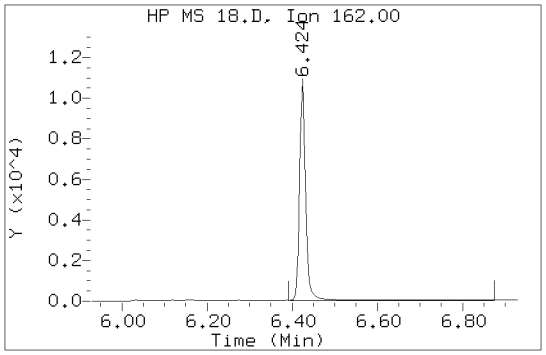
AFTER
MASS
164
AREA
10608
HEIGHT
10870
27-Jan-2023
11:55



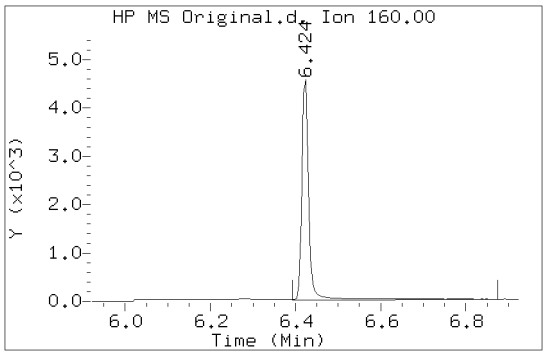
BEFORE
MASS
162
AREA
11331
HEIGHT
10930
26-Jan-2023
17:20
ALSHS
Server



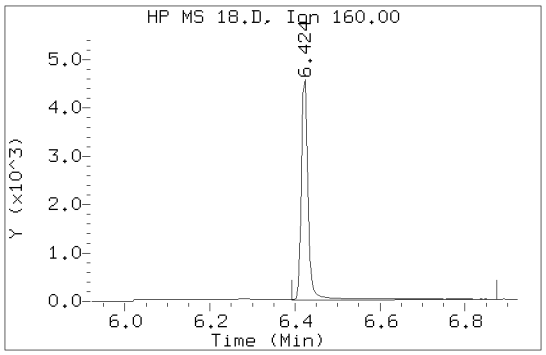
AFTER
MASS
162
AREA
11331
HEIGHT
10930
27-Jan-2023
11:55



BEFORE
MASS
160
AREA
5258
HEIGHT
4564
26-Jan-2023
17:20
ALSHS
Server



AFTER
MASS
160
AREA
5258
HEIGHT
4564
27-Jan-2023
11:55

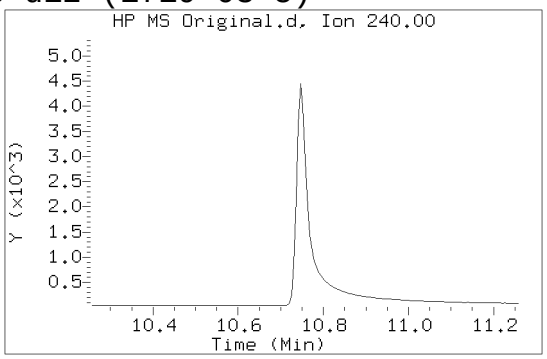


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\18.D
Inj Date : 26-JAN-2023 17:04
InstruID : SV6.i
LabSampID : 1 4-DX-0.01

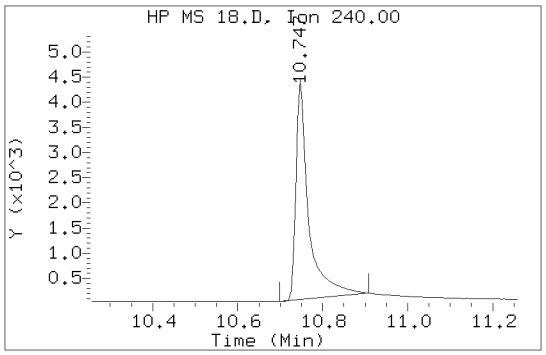
Chrysene-d12 (1719-03-5)

Reason Code:

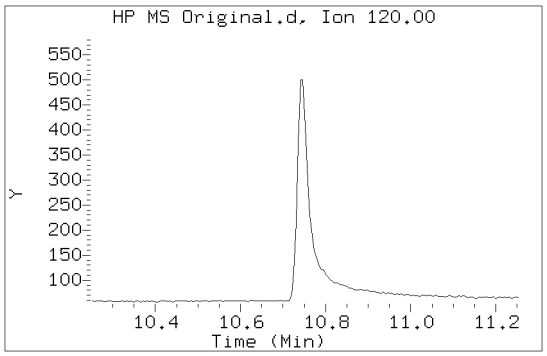
BEFORE
MASS
240
AREA
0
HEIGHT
0
26-Jan-2023
17:20
ALSHS
Server



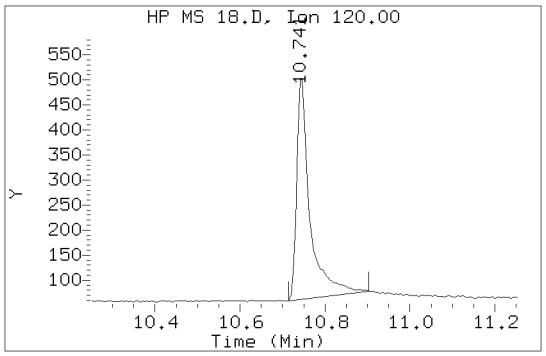
AFTER
MASS
240
AREA
9014
HEIGHT
4367
27-Jan-2023
11:55



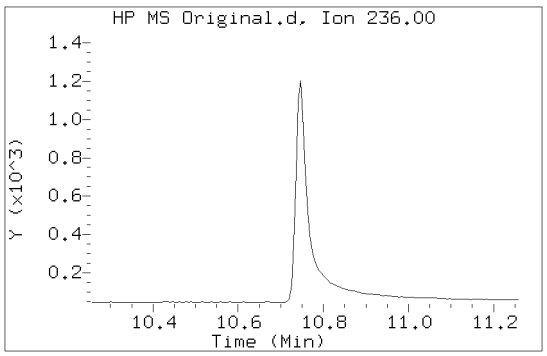
BEFORE
MASS
120
AREA
0
HEIGHT
0
26-Jan-2023
17:20
ALSHS
Server



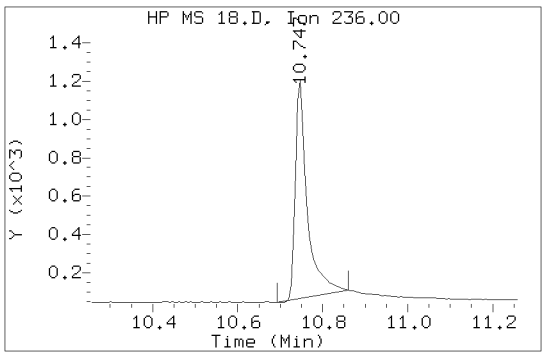
AFTER
MASS
120
AREA
950
HEIGHT
438
27-Jan-2023
11:55



BEFORE
MASS
236
AREA
0
HEIGHT
0
26-Jan-2023
17:20
ALSHS
Server



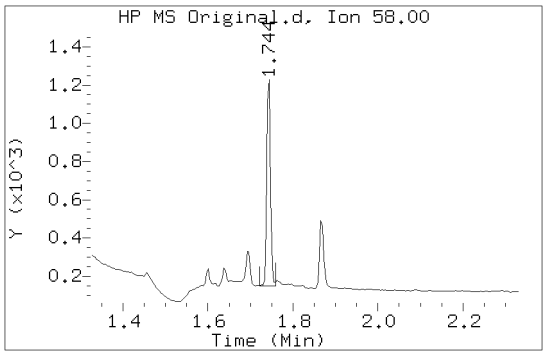
AFTER
MASS
236
AREA
2221
HEIGHT
1136
27-Jan-2023
11:55



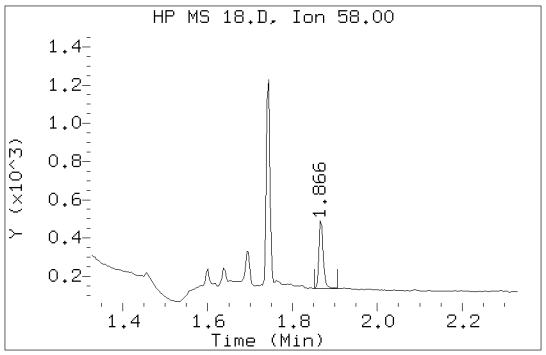
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
58
AREA
659
HEIGHT
1077
26-Jan-2023
17:20
ALSHS
Server



AFTER
MASS
58
AREA
256
HEIGHT
354
27-Jan-2023
11:55



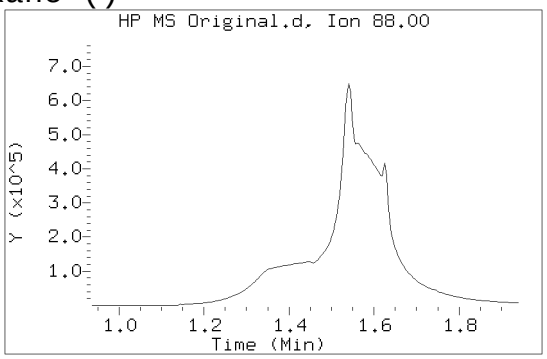
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\18.D
Inj Date : 26-JAN-2023 17:04
InstruID : SV6.i
LabSampID : 1 4-DX-0.01

1,4-Dioxane ()

Reason Code:

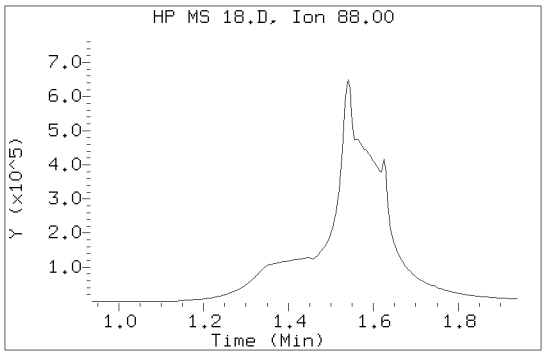
BEFORE

MASS
88
AREA
0
HEIGHT
0
26-Jan-2023
17:20
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
27-Jan-2023
11:55

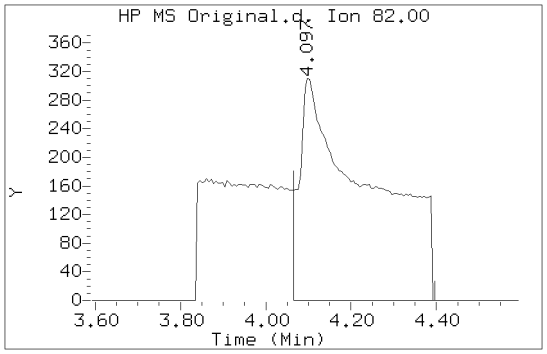


Nitrobenzene-d5 (4165-60-0)

Reason Code:

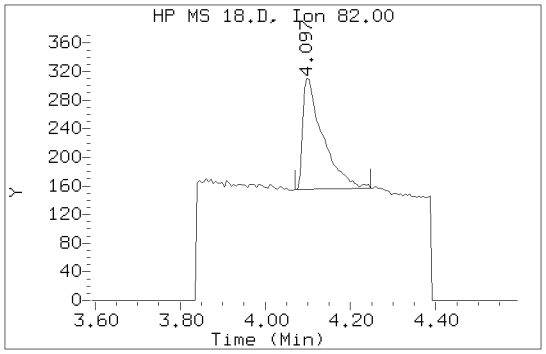
BEFORE

MASS
82
AREA
3499
HEIGHT
310
26-Jan-2023
17:20
ALSHS
Server



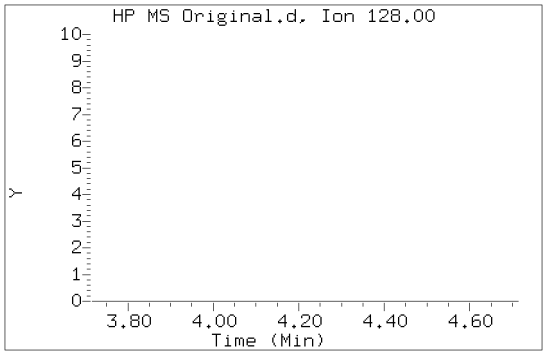
AFTER

MASS
82
AREA
510
HEIGHT
154
27-Jan-2023
11:55



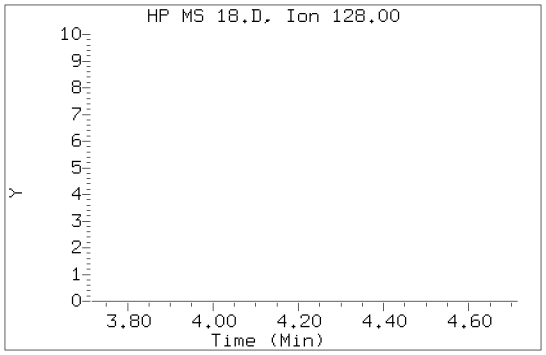
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jan-2023
17:20
ALSHS
Server



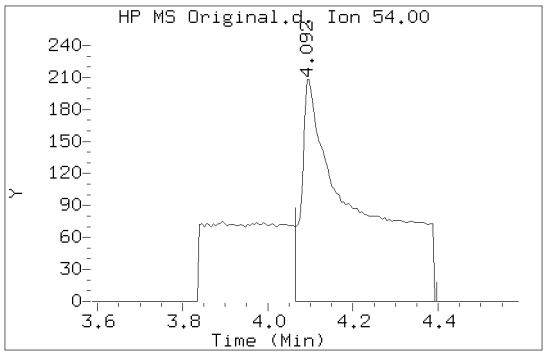
AFTER

MASS
128
AREA
0
HEIGHT
0
27-Jan-2023
11:55



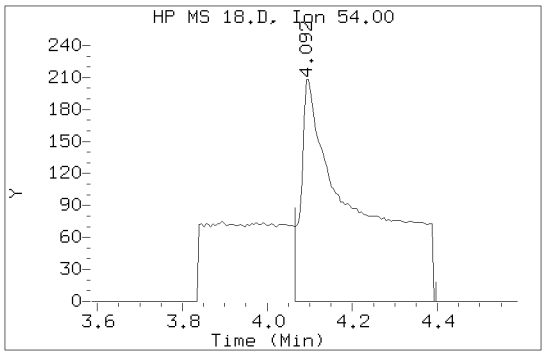
BEFORE

MASS
54
AREA
1900
HEIGHT
208
26-Jan-2023
17:20
ALSHS
Server



AFTER

MASS
54
AREA
1900
HEIGHT
208
27-Jan-2023
11:55



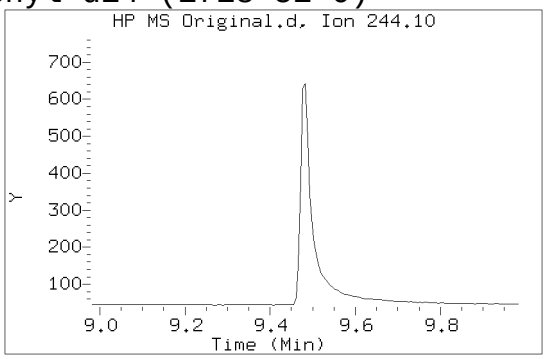
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\18.D
Inj Date : 26-JAN-2023 17:04
InstruID : SV6.i
LabSampID : 1 4-DX-0.01

4-Terphenyl-d14 (1718-51-0)

Reason Code:

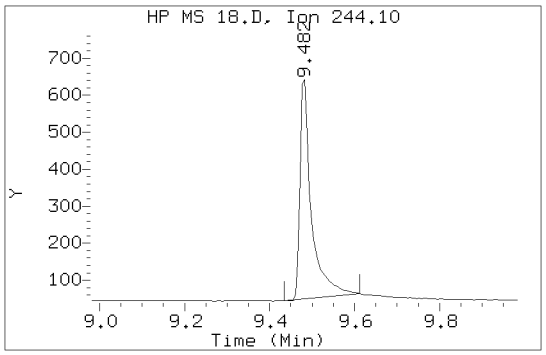
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
26-Jan-2023
17:20
ALSHS
Server



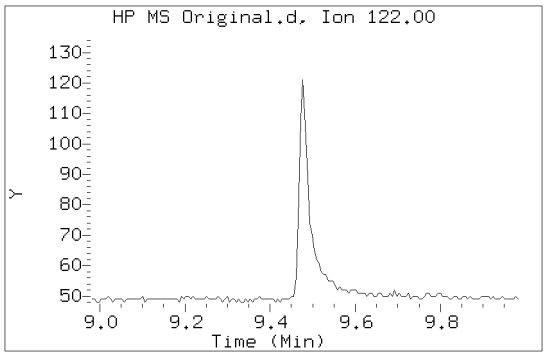
AFTER

MASS
244.1
AREA
1097
HEIGHT
592
27-Jan-2023
11:55



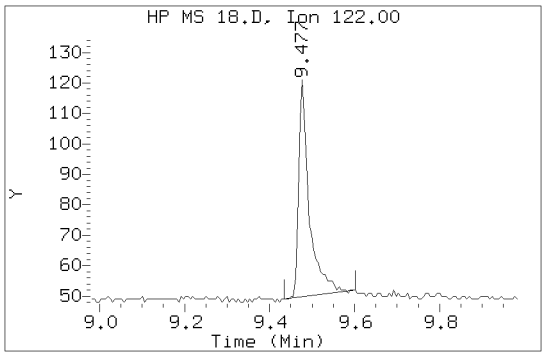
BEFORE

MASS
122
AREA
0
HEIGHT
0
26-Jan-2023
17:20
ALSHS
Server



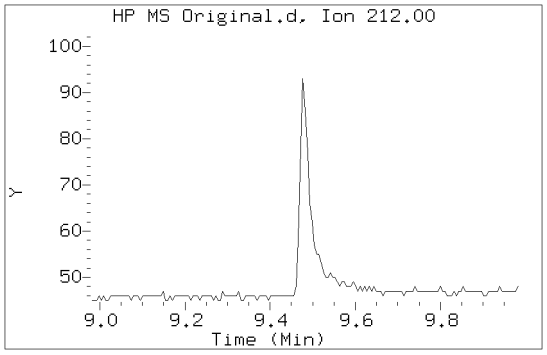
AFTER

MASS
122
AREA
121
HEIGHT
71
27-Jan-2023
11:55



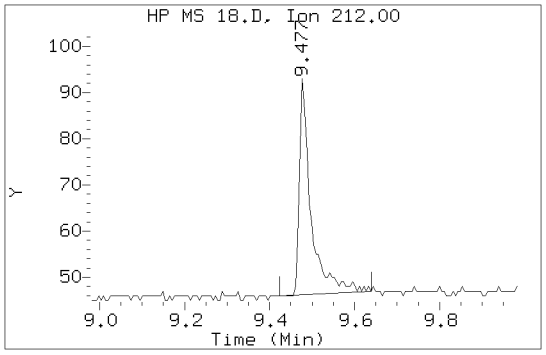
BEFORE

MASS
212
AREA
0
HEIGHT
0
26-Jan-2023
17:20
ALSHS
Server



AFTER

MASS
212
AREA
88
HEIGHT
46
27-Jan-2023
11:55

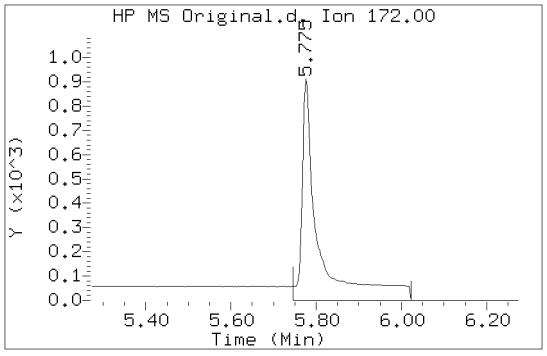


2-Fluorobiphenyl (321-60-8)

Reason Code:

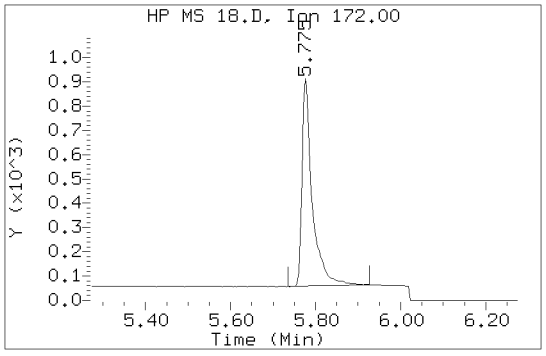
BEFORE

MASS
172
AREA
2433
HEIGHT
913
26-Jan-2023
17:20
ALSHS
Server



AFTER

MASS
172
AREA
1424
HEIGHT
854
27-Jan-2023
11:55



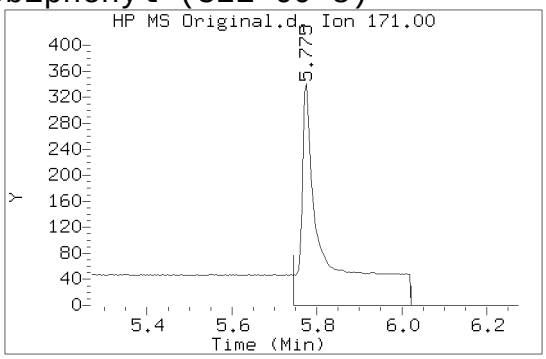
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\18.D
Inj Date : 26-JAN-2023 17:04
InstruID : SV6.i
LabSampID : 1 4-DX-0.01

2-Fluorobiphenyl (321-60-8)

Reason Code:

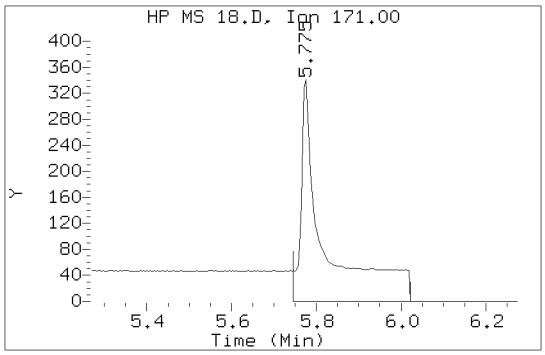
BEFORE

MASS
171
AREA
1276
HEIGHT
341
26-Jan-2023
17:20
ALSHS
Server



AFTER

MASS
171
AREA
1276
HEIGHT
341
27-Jan-2023
11:55



Data File: \\NAHSTWS005\Target\chem\SV6.i\230126.b\19.D Page 1
Report Date: 27-Jan-2023 11:55

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230126.b\19.D
Lab Smp Id: 1 4-DX-0.03 Client Smp ID: 1 4-DX-0.03
Inj Date : 26-JAN-2023 17:22
Operator : LG Inst ID: SV6.i
Smp Info : 1 4-DX-0.03;1 4-DX-0.03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230126.b\DXSIM.m
Meth Date : 27-Jan-2023 11:55 SV6.i Quant Type: ISTD
Cal Date : 26-JAN-2023 17:04 Cal File: 18.D
Als bottle: 18 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.625	3.625	(1.000)	4353	0.10000	(aM)
* 45 Naphthalene-d8	136	4.746	4.746	(1.000)	15379	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.097	4.097	(0.863)	1295	0.03000	0.02918(QM)
* 86 Acenaphthene-d10	164	6.424	6.424	(1.000)	8264	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.775	5.775	(0.899)	3097	0.03000	0.02855(M)
* 126 Phenanthrene-d10	188	7.879	7.879	(1.000)	15308	0.10000	(M)
* 182 Chrysene-d12	240	10.752	10.752	(1.000)	5688	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.482	9.482	(0.882)	2568	0.03000	0.03727(M)
* 198 Perylene-d12	264	12.851	12.851	(1.000)	5361	0.10000	
1 1,4-Dioxane	58	1.847	1.847	(0.510)	502	0.03000	0.03161(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

01184663

Data File: \\NAHSTWS005\Target\chem\SV6.i\230126.b\19.D

Date : 26-JAN-2023 17:22

Client ID: 1 4-DX-0.03

Instrument: SV6.i

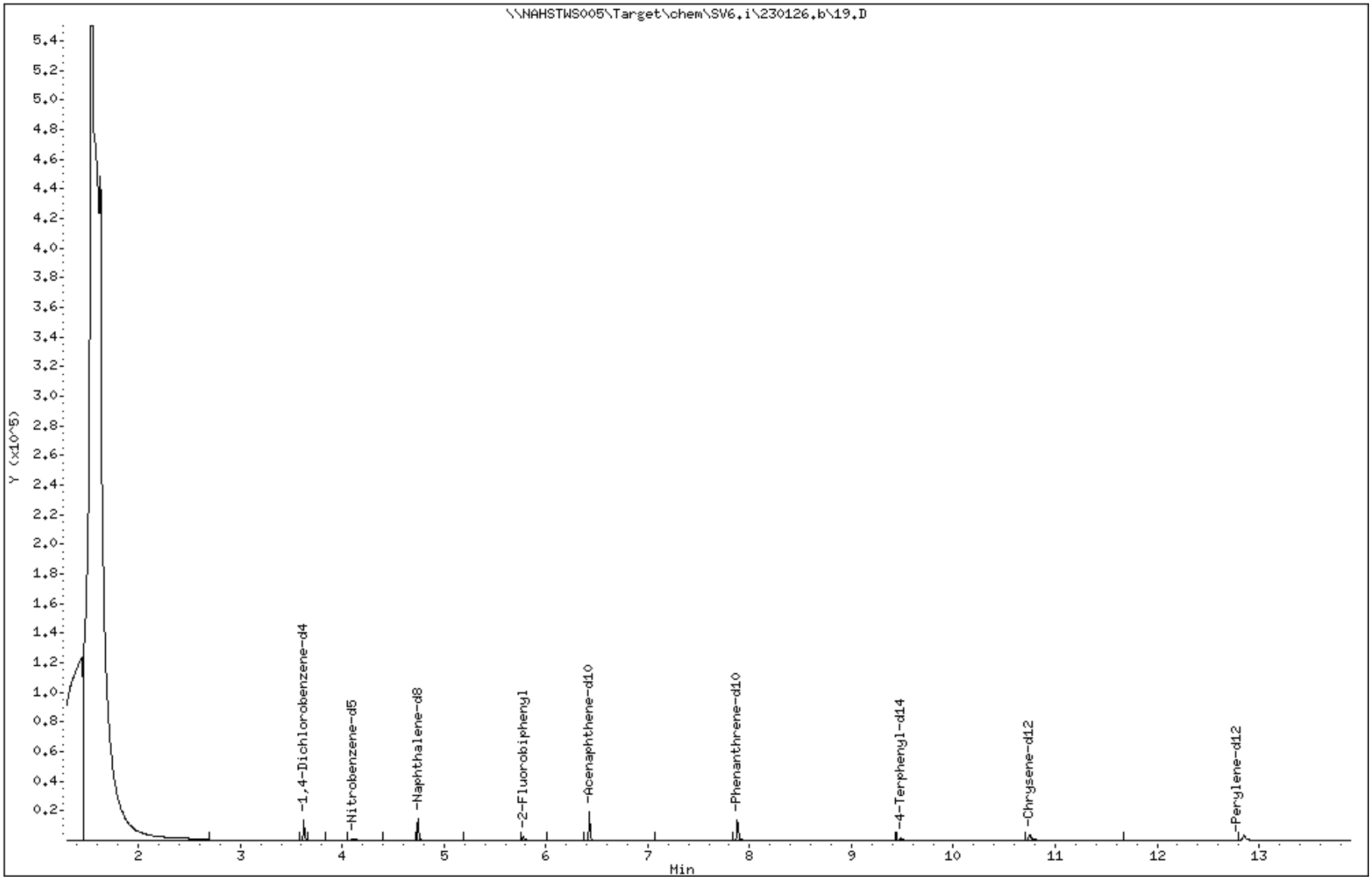
Sample Info: 1 4-DX-0.03;1 4-DX-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

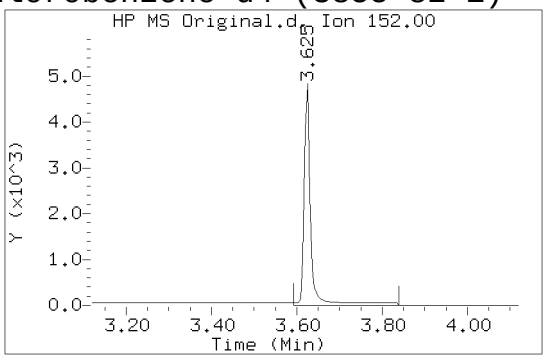


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\19.D
Inj Date : 26-JAN-2023 17:22
InstruID : SV6.i
LabSampID : 1 4-DX-0.03

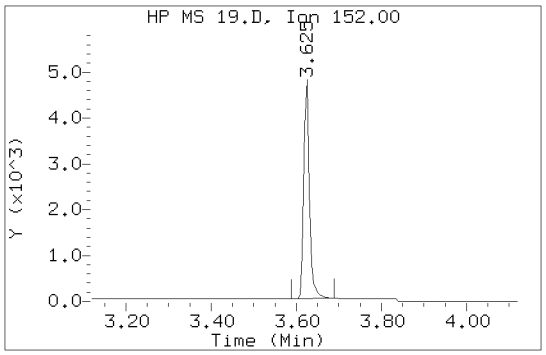
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

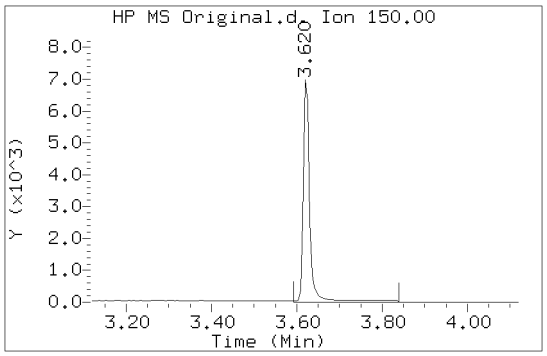
BEFORE
MASS
152
AREA
5196
HEIGHT
4837
26-Jan-2023
17:37
ALSHS
Server



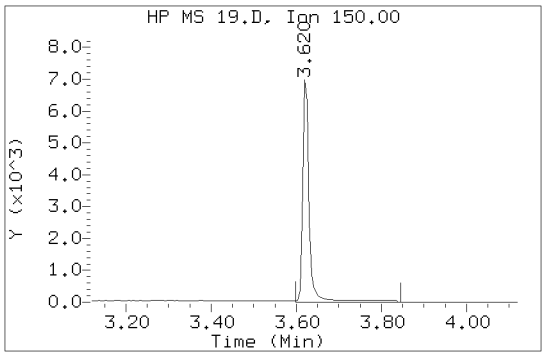
AFTER
MASS
152
AREA
4353
HEIGHT
4780
27-Jan-2023
11:55



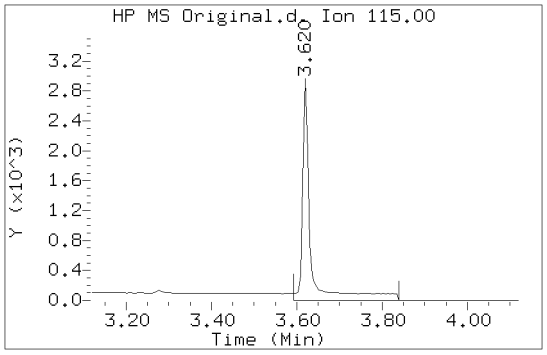
BEFORE
MASS
150
AREA
7408
HEIGHT
6977
26-Jan-2023
17:37
ALSHS
Server



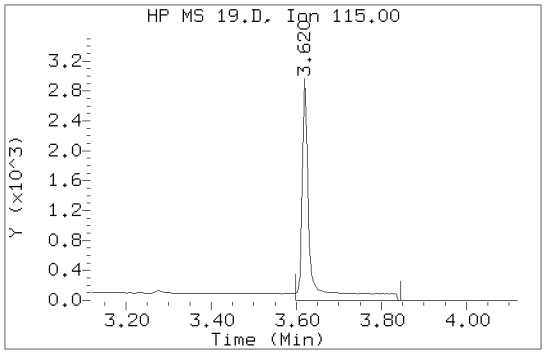
AFTER
MASS
150
AREA
7392
HEIGHT
6977
27-Jan-2023
11:55



BEFORE
MASS
115
AREA
3884
HEIGHT
2965
26-Jan-2023
17:37
ALSHS
Server



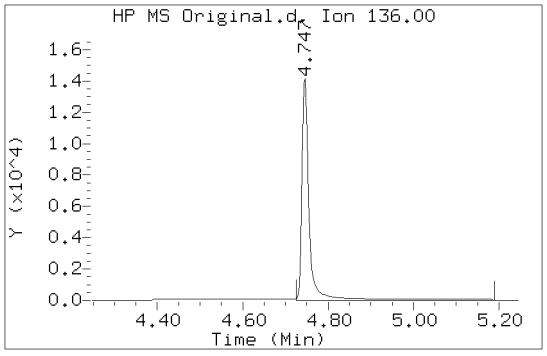
AFTER
MASS
115
AREA
3855
HEIGHT
2965
27-Jan-2023
11:55



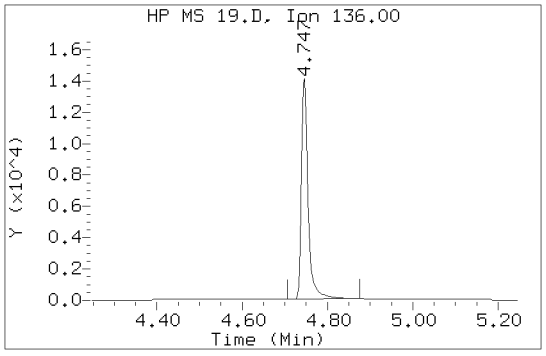
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
17657
HEIGHT
14146
26-Jan-2023
17:37
ALSHS
Server



AFTER
MASS
136
AREA
15379
HEIGHT
14070
27-Jan-2023
11:55



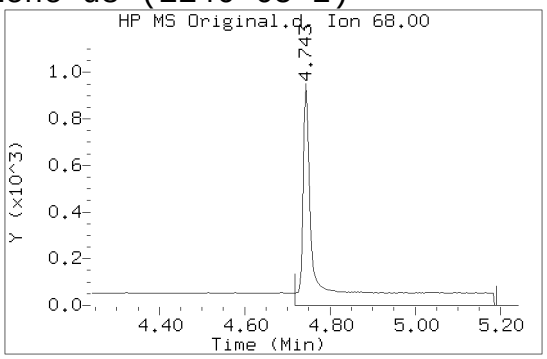
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\19.D
Inj Date : 26-JAN-2023 17:22
InstruID : SV6.i
LabSampID : 1 4-DX-0.03

Naphthalene-d8 (1146-65-2)

Reason Code:

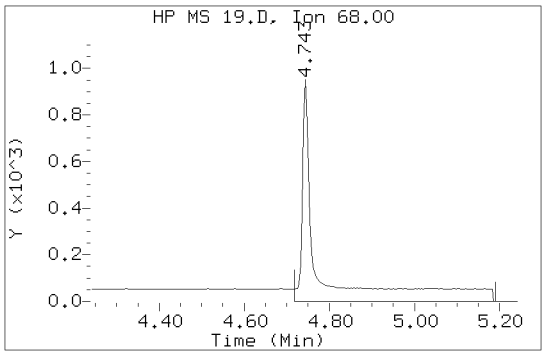
BEFORE

MASS
68
AREA
2456
HEIGHT
951
26-Jan-2023
17:37
ALSHS
Server



AFTER

MASS
68
AREA
2456
HEIGHT
951
27-Jan-2023
11:55

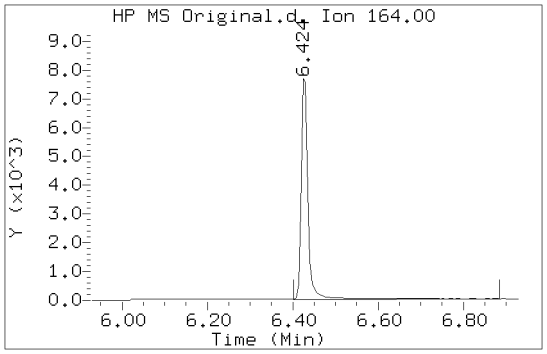


Acenaphthene-d10 (15067-26-2)

Reason Code:

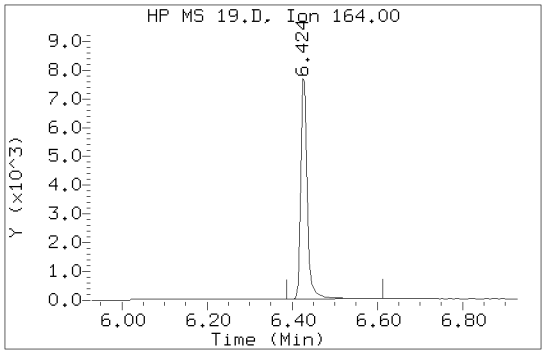
BEFORE

MASS
164
AREA
8776
HEIGHT
7674
26-Jan-2023
17:37
ALSHS
Server



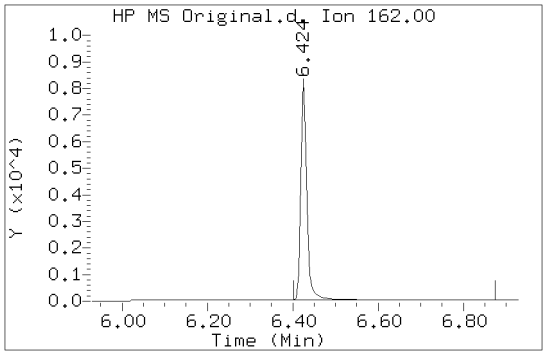
AFTER

MASS
164
AREA
8264
HEIGHT
7645
27-Jan-2023
11:55



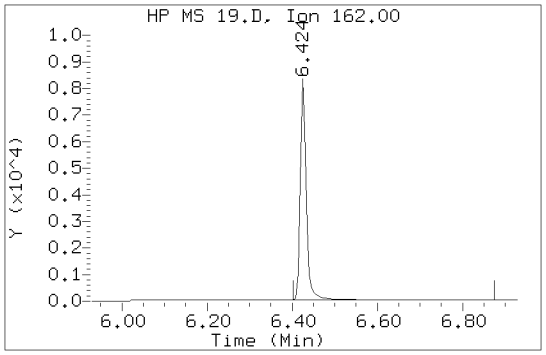
BEFORE

MASS
162
AREA
8262
HEIGHT
8311
26-Jan-2023
17:37
ALSHS
Server



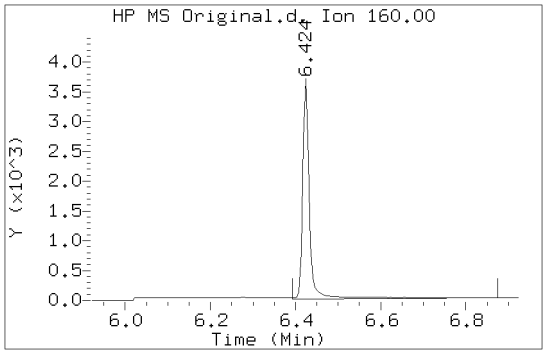
AFTER

MASS
162
AREA
8262
HEIGHT
8311
27-Jan-2023
11:55



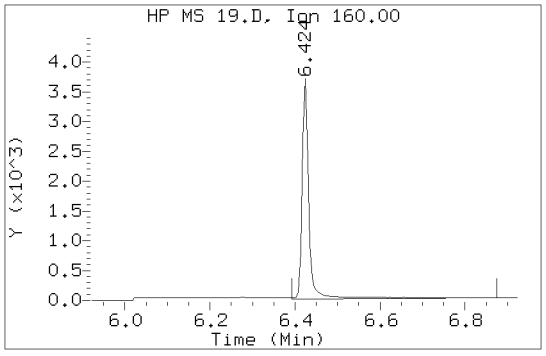
BEFORE

MASS
160
AREA
4094
HEIGHT
3698
26-Jan-2023
17:37
ALSHS
Server



AFTER

MASS
160
AREA
4094
HEIGHT
3698
27-Jan-2023
11:55



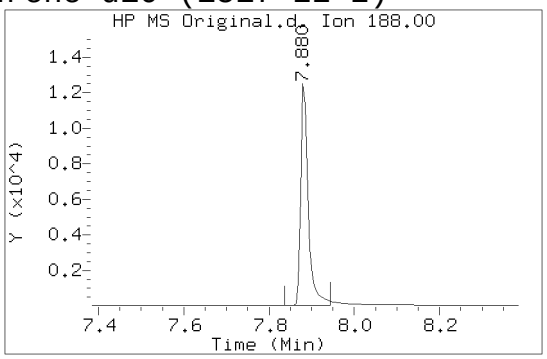
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\19.D
Inj Date : 26-JAN-2023 17:22
InstruID : SV6.i
LabSampID : 1 4-DX-0.03

Phenanthrene-d10 (1517-22-2)

Reason Code:

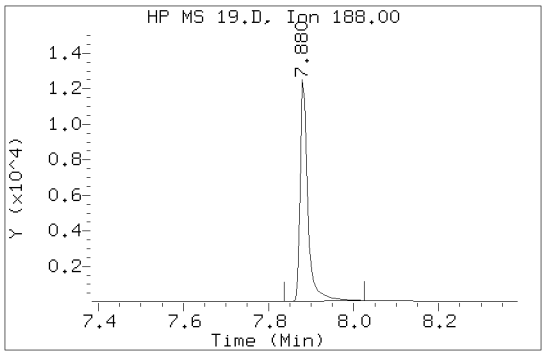
BEFORE

MASS
188
AREA
15125
HEIGHT
12466
26-Jan-2023
17:37
ALSHS
Server



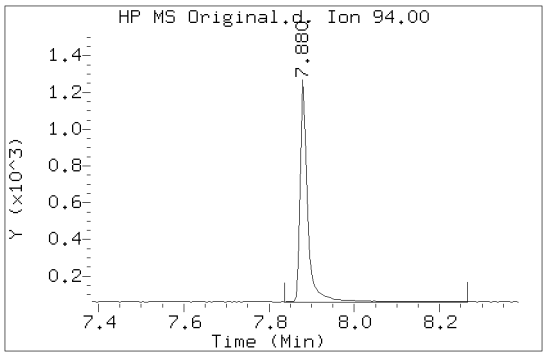
AFTER

MASS
188
AREA
15308
HEIGHT
12454
27-Jan-2023
11:55



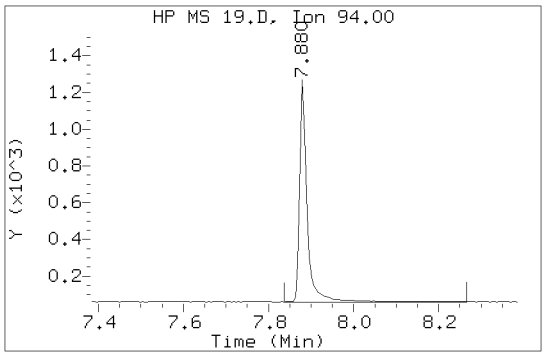
BEFORE

MASS
94
AREA
1509
HEIGHT
1209
26-Jan-2023
17:37
ALSHS
Server



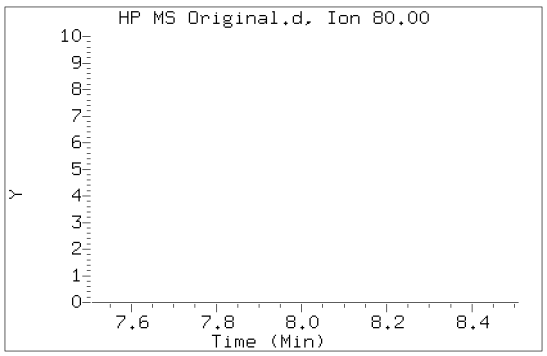
AFTER

MASS
94
AREA
1509
HEIGHT
1209
27-Jan-2023
11:55



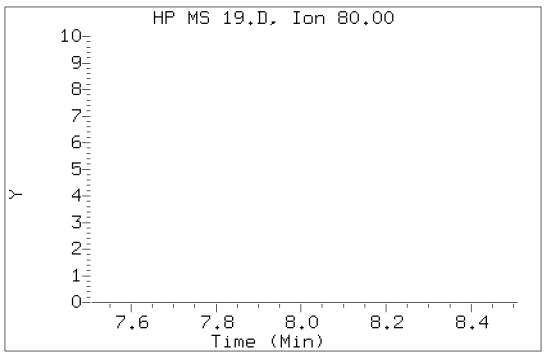
BEFORE

MASS
80
AREA
0
HEIGHT
0
26-Jan-2023
17:37
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
27-Jan-2023
11:55

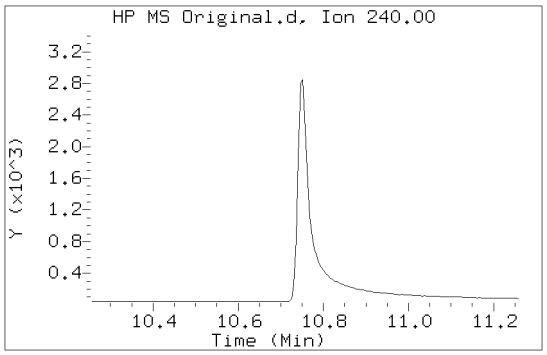


Chrysene-d12 (1719-03-5)

Reason Code:

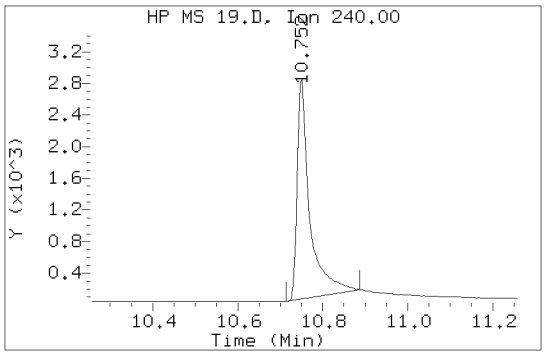
BEFORE

MASS
240
AREA
0
HEIGHT
0
26-Jan-2023
17:37
ALSHS
Server



AFTER

MASS
240
AREA
5688
HEIGHT
2769
27-Jan-2023
11:55



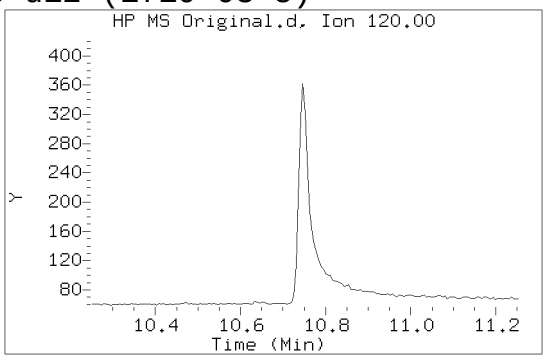
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\19.D
Inj Date : 26-JAN-2023 17:22
InstruID : SV6.i
LabSampID : 1 4-DX-0.03

Chrysene-d12 (1719-03-5)

Reason Code:

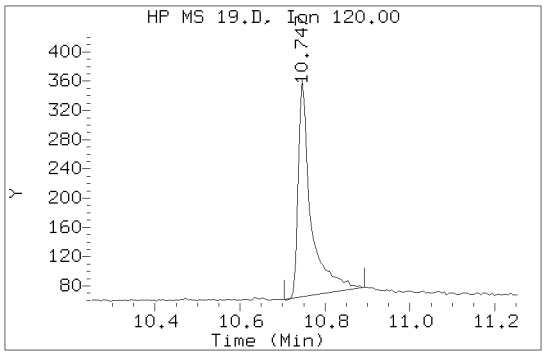
BEFORE

MASS
120
AREA
0
HEIGHT
0
26-Jan-2023
17:37
ALSHS
Server



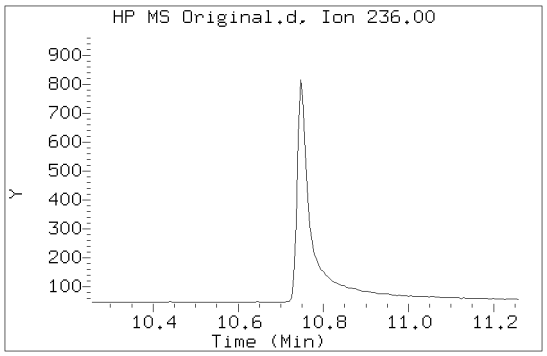
AFTER

MASS
120
AREA
608
HEIGHT
296
27-Jan-2023
11:55



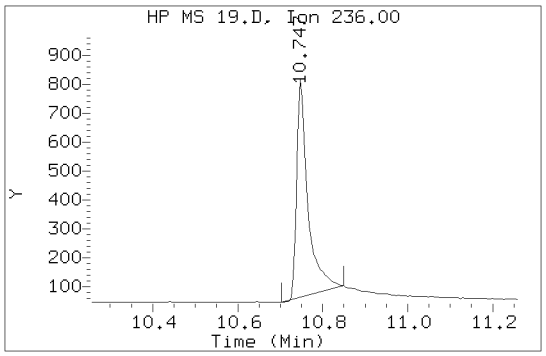
BEFORE

MASS
236
AREA
0
HEIGHT
0
26-Jan-2023
17:37
ALSHS
Server



AFTER

MASS
236
AREA
1382
HEIGHT
752
27-Jan-2023
11:55

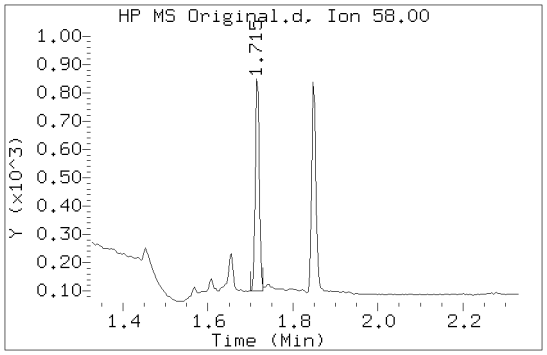


1,4-Dioxane ()

Reason Code:

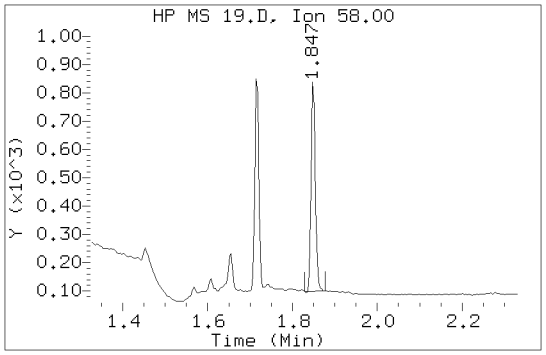
BEFORE

MASS
58
AREA
485
HEIGHT
748
26-Jan-2023
17:37
ALSHS
Server



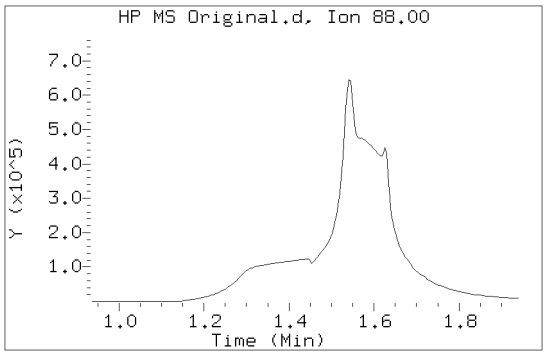
AFTER

MASS
58
AREA
502
HEIGHT
737
27-Jan-2023
11:55



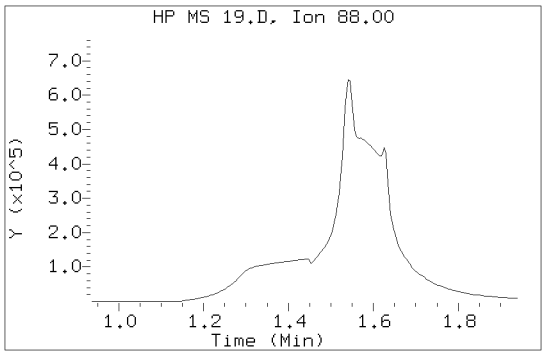
BEFORE

MASS
88
AREA
0
HEIGHT
0
26-Jan-2023
17:37
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
27-Jan-2023
11:55



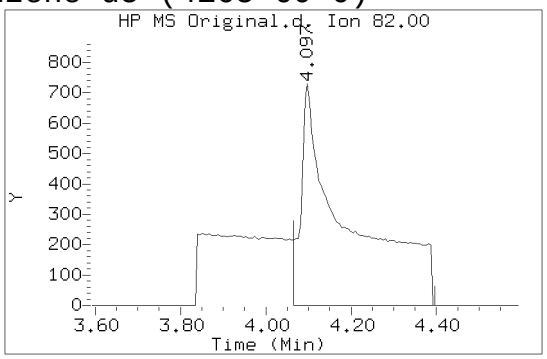
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\19.D
Inj Date : 26-JAN-2023 17:22
InstruID : SV6.i
LabSampID : 1 4-DX-0.03

Nitrobenzene-d5 (4165-60-0)

Reason Code:

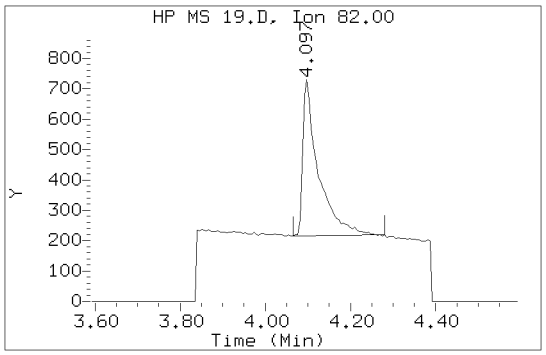
BEFORE

MASS
82
AREA
5467
HEIGHT
730
26-Jan-2023
17:37
ALSHS
Server



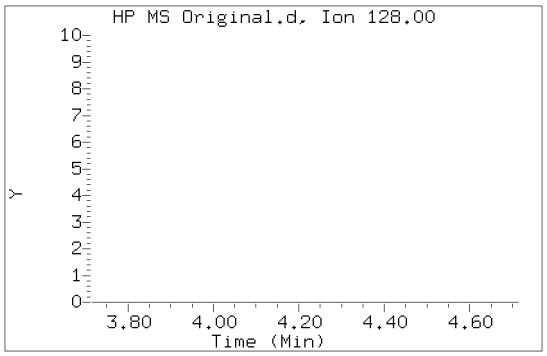
AFTER

MASS
82
AREA
1295
HEIGHT
513
27-Jan-2023
11:55



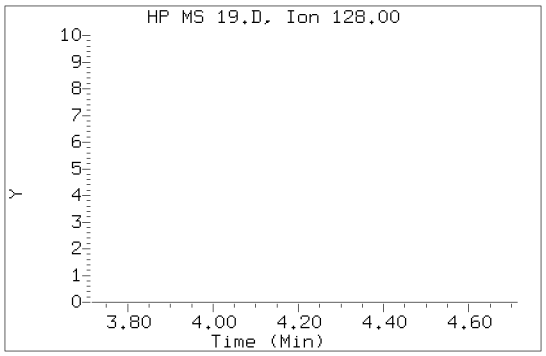
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jan-2023
17:37
ALSHS
Server



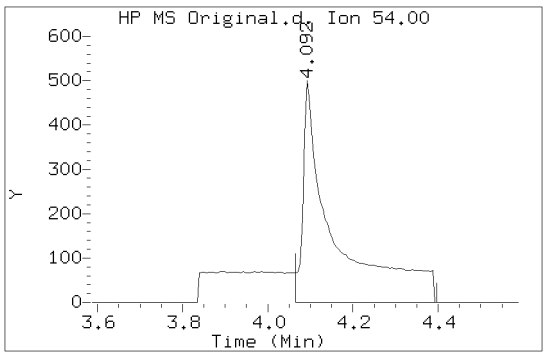
AFTER

MASS
128
AREA
0
HEIGHT
0
27-Jan-2023
11:55



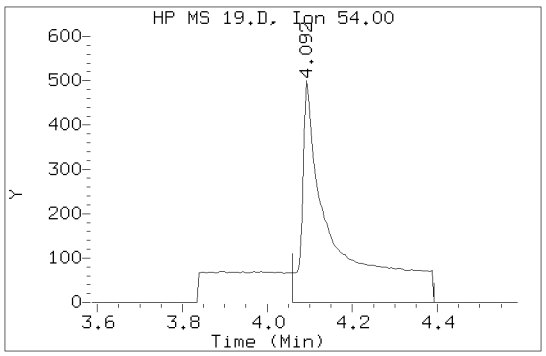
BEFORE

MASS
54
AREA
2509
HEIGHT
500
26-Jan-2023
17:37
ALSHS
Server



AFTER

MASS
54
AREA
2544
HEIGHT
500
27-Jan-2023
11:55

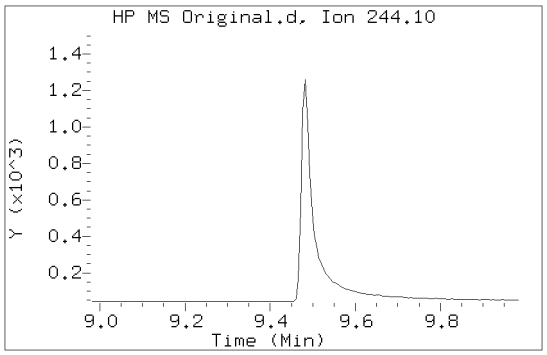


4-Terphenyl-d14 (1718-51-0)

Reason Code:

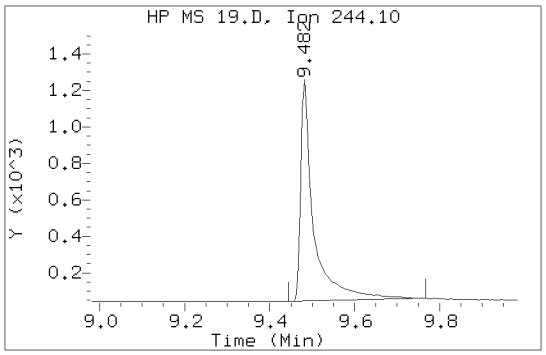
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
26-Jan-2023
17:37
ALSHS
Server



AFTER

MASS
244.1
AREA
2568
HEIGHT
1213
27-Jan-2023
11:55

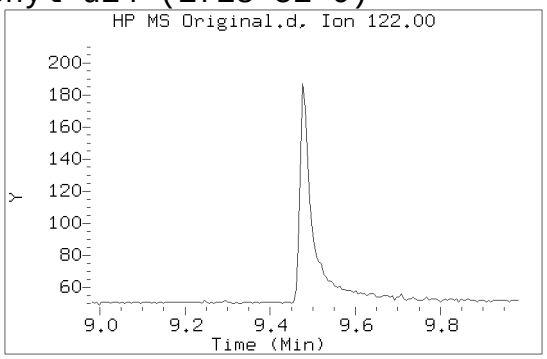


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\19.D
Inj Date : 26-JAN-2023 17:22
InstruID : SV6.i
LabSampID : 1 4-DX-0.03

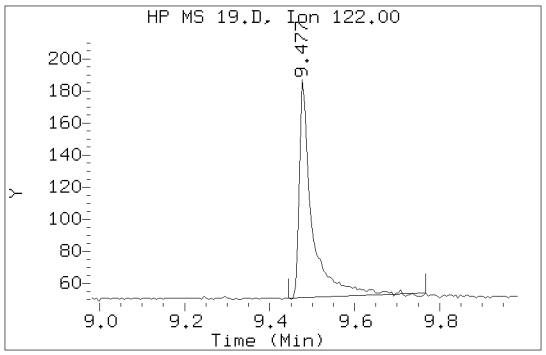
4-Terphenyl-d14 (1718-51-0)

Reason Code:

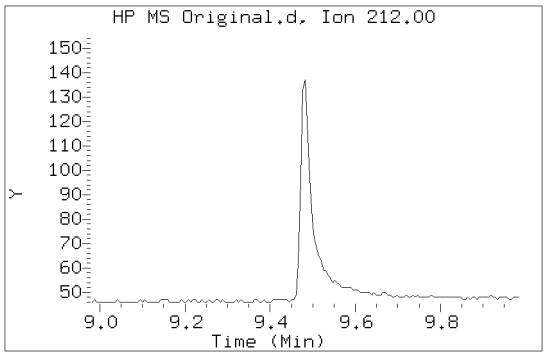
BEFORE
MASS
122
AREA
0
HEIGHT
0
26-Jan-2023
17:37
ALSHS
Server



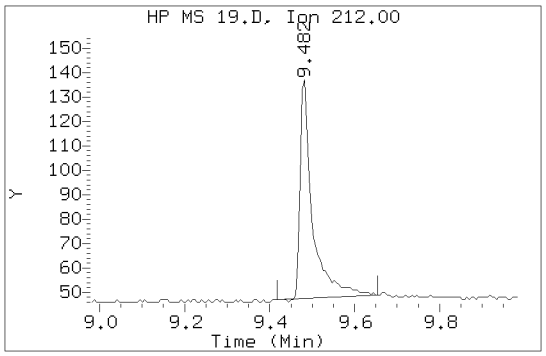
AFTER
MASS
122
AREA
277
HEIGHT
135
27-Jan-2023
11:55



BEFORE
MASS
212
AREA
0
HEIGHT
0
26-Jan-2023
17:37
ALSHS
Server



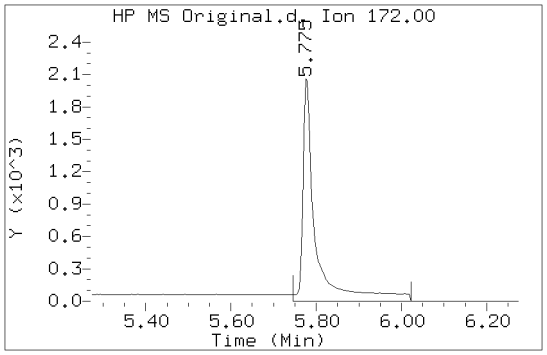
AFTER
MASS
212
AREA
180
HEIGHT
89
27-Jan-2023
11:55



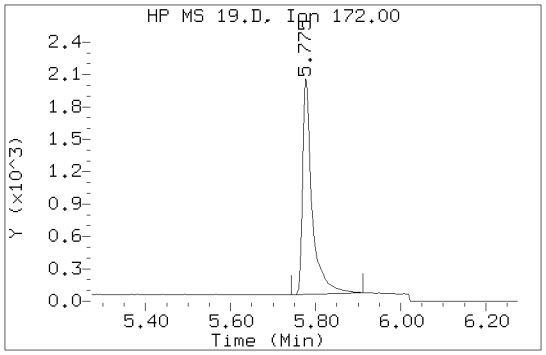
2-Fluorobiphenyl (321-60-8)

Reason Code:

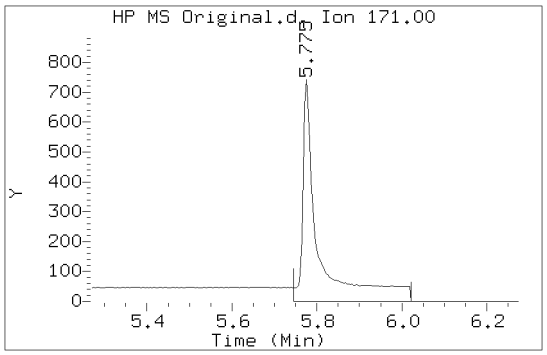
BEFORE
MASS
172
AREA
4259
HEIGHT
2059
26-Jan-2023
17:37
ALSHS
Server



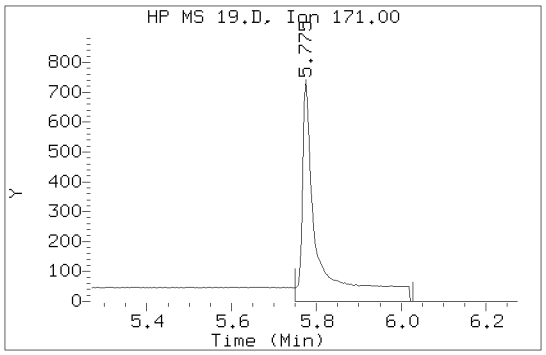
AFTER
MASS
172
AREA
3097
HEIGHT
1996
27-Jan-2023
11:55



BEFORE
MASS
171
AREA
1881
HEIGHT
742
26-Jan-2023
17:37
ALSHS
Server



AFTER
MASS
171
AREA
1882
HEIGHT
742
27-Jan-2023
11:55



Data File: \\NAHSTWS005\Target\chem\SV6.i\230126.b\20.D Page 1
Report Date: 27-Jan-2023 11:55

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230126.b\20.D
Lab Smp Id: 1 4-DX-0.05 Client Smp ID: 1 4-DX-0.05
Inj Date : 26-JAN-2023 17:40
Operator : LG Inst ID: SV6.i
Smp Info : 1 4-DX-0.05;1 4-DX-0.05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230126.b\DXSIM.m
Meth Date : 27-Jan-2023 11:55 SV6.i Quant Type: ISTD
Cal Date : 26-JAN-2023 17:22 Cal File: 19.D
Als bottle: 19 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.625	3.625	(1.000)	6207	0.10000	(aM)
* 45 Naphthalene-d8	136	4.743	4.743	(1.000)	21643	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.097	4.097	(0.864)	3292	0.05000	0.05272(QM)
* 86 Acenaphthene-d10	164	6.424	6.424	(1.000)	12005	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.775	5.775	(0.899)	7569	0.05000	0.04804(M)
* 126 Phenanthrene-d10	188	7.879	7.879	(1.000)	22930	0.10000	(M)
* 182 Chrysene-d12	240	10.746	10.746	(1.000)	10096	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.476	9.476	(0.882)	5479	0.05000	0.04162(M)
* 198 Perylene-d12	264	12.851	12.851	(1.000)	8682	0.10000	
1 1,4-Dioxane	58	1.873	1.873	(0.517)	1266	0.05000	0.05591(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

01184671

Data File: \\NAHSTWS005\Target\chem\SV6.i\230126.b\20.D

Date : 26-JAN-2023 17:40

Client ID: 1 4-DX-0.05

Instrument: SV6.i

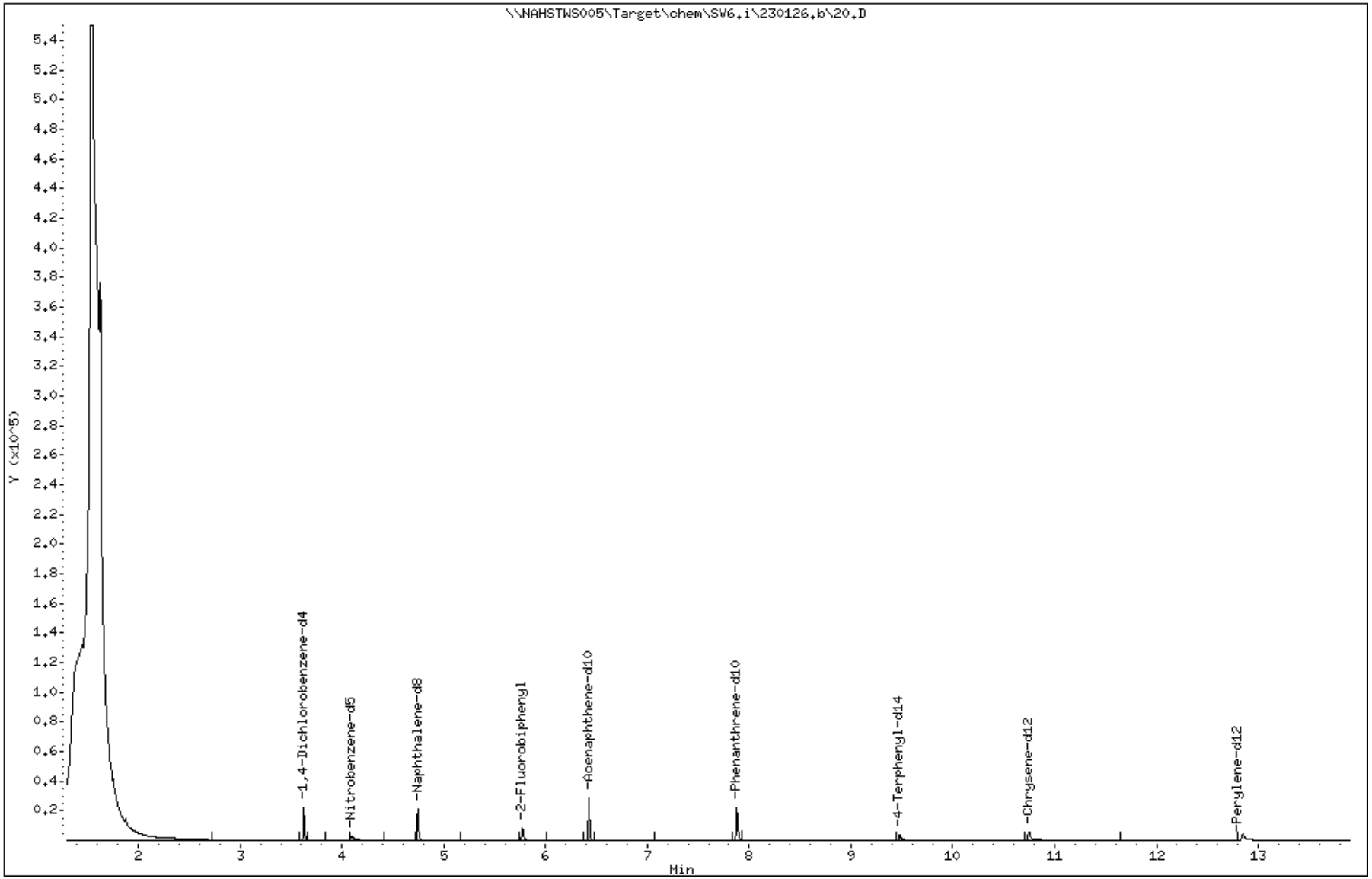
Sample Info: 1 4-DX-0.05;1 4-DX-0.05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

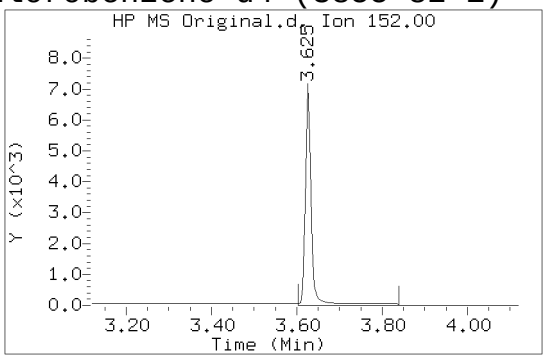


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\20.D
Inj Date : 26-JAN-2023 17:40
InstruID : SV6.i
LabSampID : 1 4-DX-0.05

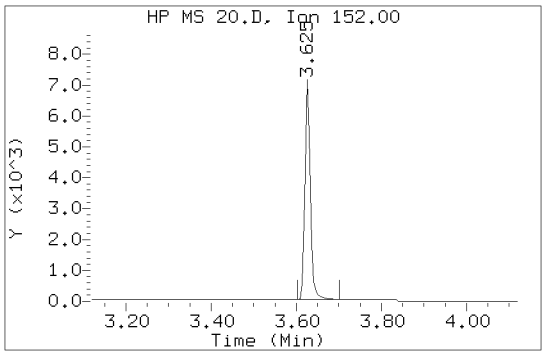
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

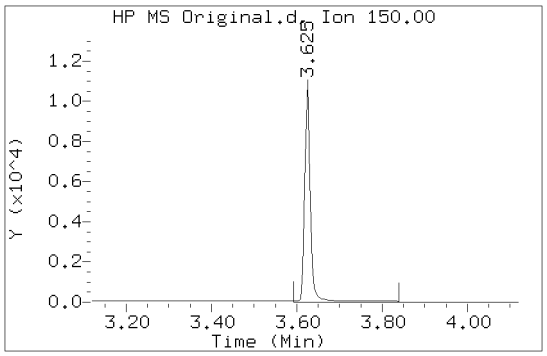
BEFORE
MASS
152
AREA
7036
HEIGHT
7174
26-Jan-2023
17:55
ALSHS
Server



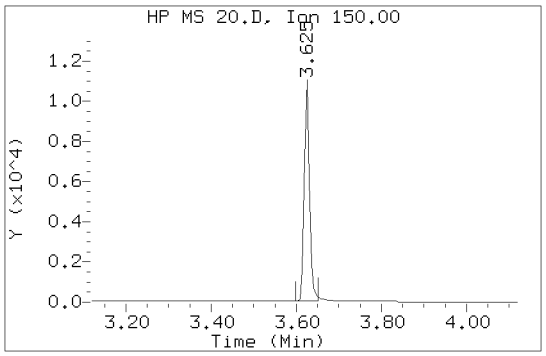
AFTER
MASS
152
AREA
6207
HEIGHT
7117
27-Jan-2023
11:55



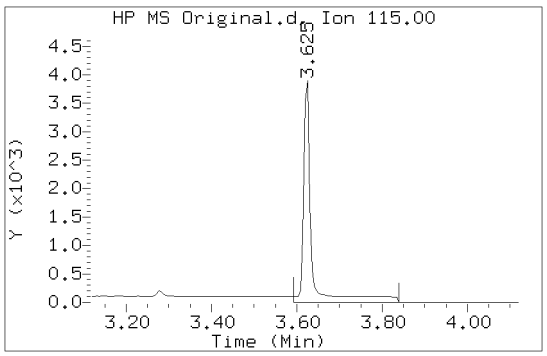
BEFORE
MASS
150
AREA
10220
HEIGHT
11063
26-Jan-2023
17:55
ALSHS
Server



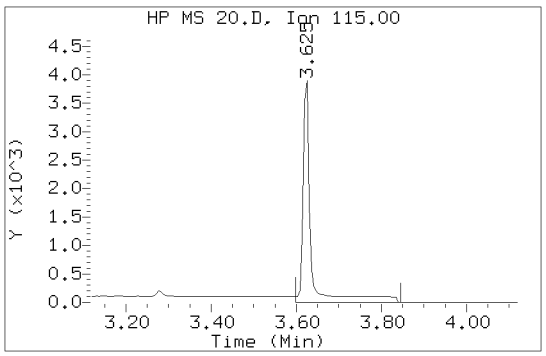
AFTER
MASS
150
AREA
9269
HEIGHT
11013
27-Jan-2023
11:55



BEFORE
MASS
115
AREA
5002
HEIGHT
3896
26-Jan-2023
17:55
ALSHS
Server



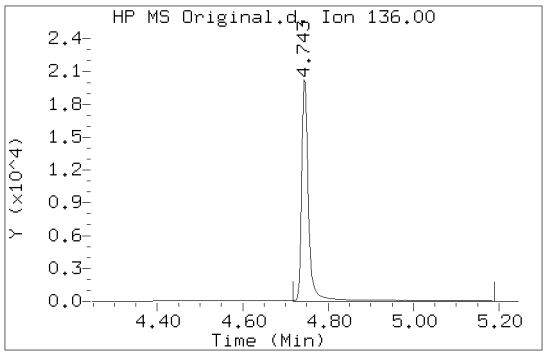
AFTER
MASS
115
AREA
4971
HEIGHT
3896
27-Jan-2023
11:55



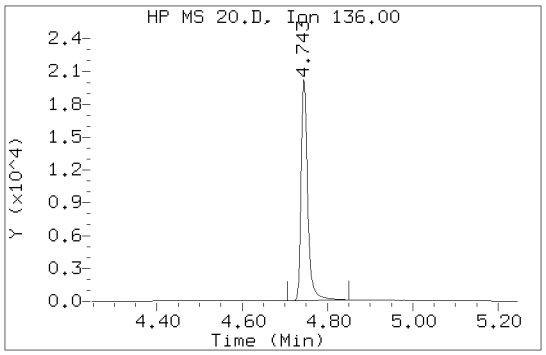
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
24227
HEIGHT
20256
26-Jan-2023
17:55
ALSHS
Server



AFTER
MASS
136
AREA
21643
HEIGHT
20170
27-Jan-2023
11:55



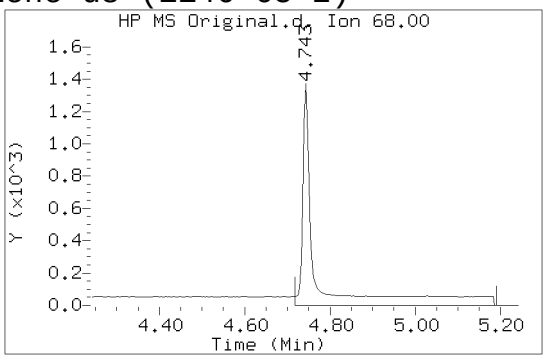
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\20.D
Inj Date : 26-JAN-2023 17:40
InstruID : SV6.i
LabSampID : 1 4-DX-0.05

Naphthalene-d8 (1146-65-2)

Reason Code:

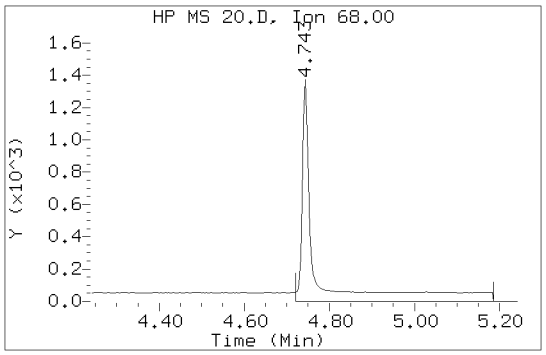
BEFORE

MASS
68
AREA
2898
HEIGHT
1372
26-Jan-2023
17:55
ALSHS
Server



AFTER

MASS
68
AREA
2886
HEIGHT
1372
27-Jan-2023
11:55

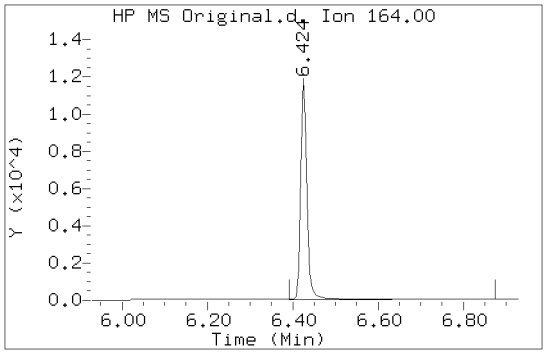


Acenaphthene-d10 (15067-26-2)

Reason Code:

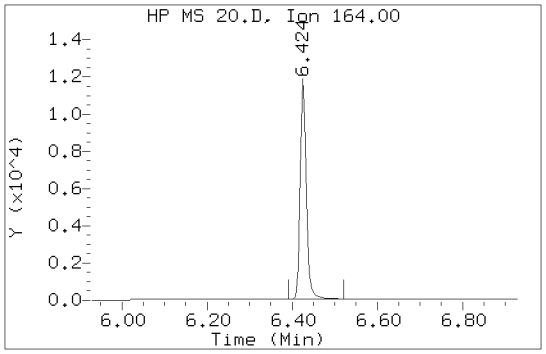
BEFORE

MASS
164
AREA
12674
HEIGHT
11880
26-Jan-2023
17:55
ALSHS
Server



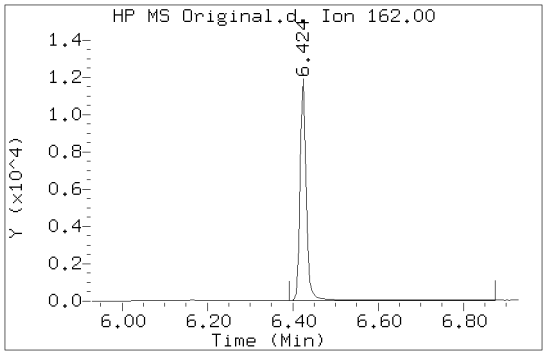
AFTER

MASS
164
AREA
12005
HEIGHT
11845
27-Jan-2023
11:55



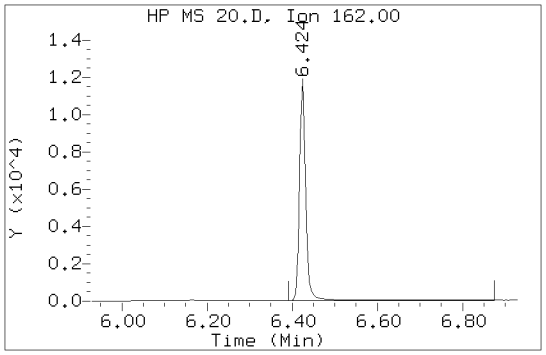
BEFORE

MASS
162
AREA
12561
HEIGHT
11898
26-Jan-2023
17:55
ALSHS
Server



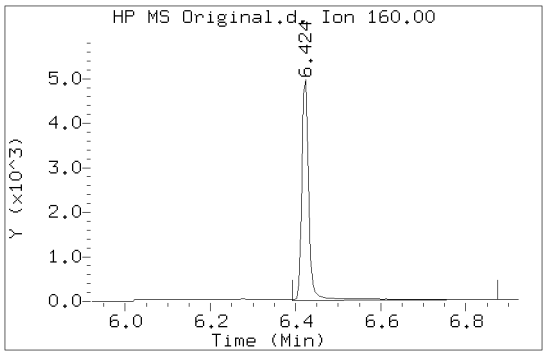
AFTER

MASS
162
AREA
12561
HEIGHT
11898
27-Jan-2023
11:55



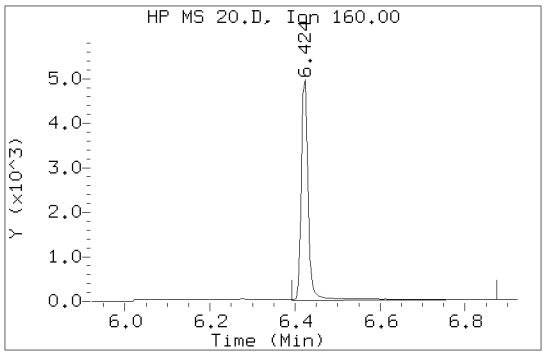
BEFORE

MASS
160
AREA
5755
HEIGHT
4956
26-Jan-2023
17:55
ALSHS
Server



AFTER

MASS
160
AREA
5755
HEIGHT
4956
27-Jan-2023
11:55



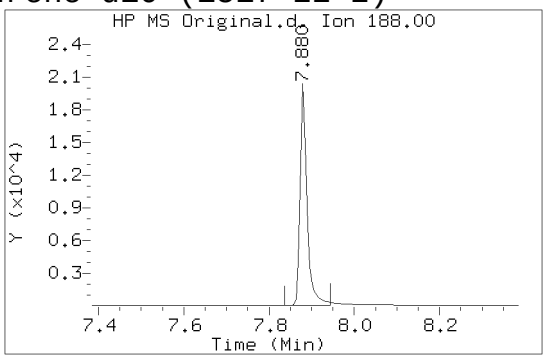
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\20.D
Inj Date : 26-JAN-2023 17:40
InstruID : SV6.i
LabSampID : 1 4-DX-0.05

Phenanthrene-d10 (1517-22-2)

Reason Code:

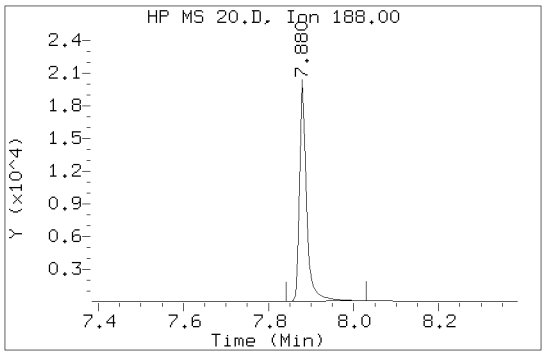
BEFORE

MASS
188
AREA
22670
HEIGHT
20338
26-Jan-2023
17:55
ALSHS
Server



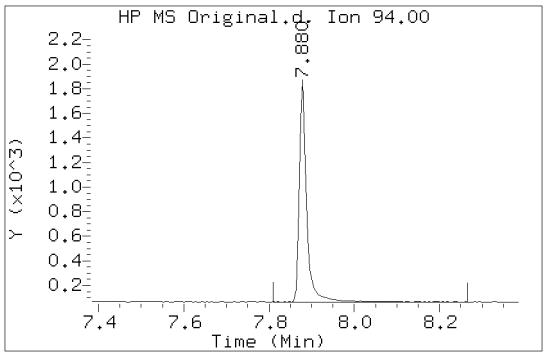
AFTER

MASS
188
AREA
22930
HEIGHT
20327
27-Jan-2023
11:55



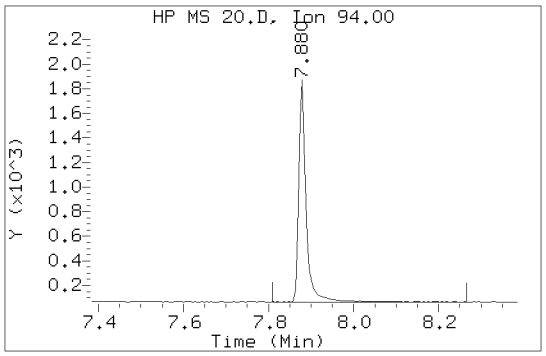
BEFORE

MASS
94
AREA
2147
HEIGHT
1806
26-Jan-2023
17:55
ALSHS
Server



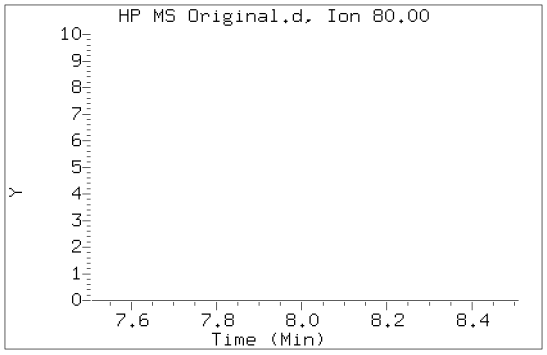
AFTER

MASS
94
AREA
2147
HEIGHT
1806
27-Jan-2023
11:55



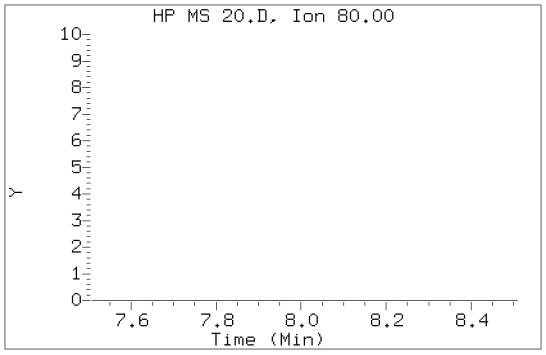
BEFORE

MASS
80
AREA
0
HEIGHT
0
26-Jan-2023
17:55
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
27-Jan-2023
11:55

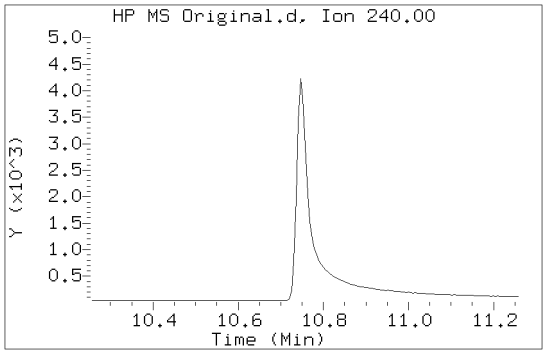


Chrysene-d12 (1719-03-5)

Reason Code:

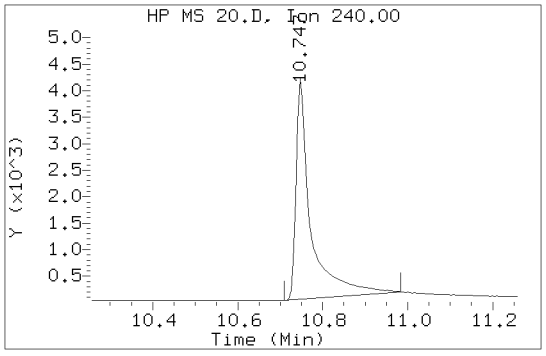
BEFORE

MASS
240
AREA
0
HEIGHT
0
26-Jan-2023
17:55
ALSHS
Server



AFTER

MASS
240
AREA
10096
HEIGHT
4158
27-Jan-2023
11:55



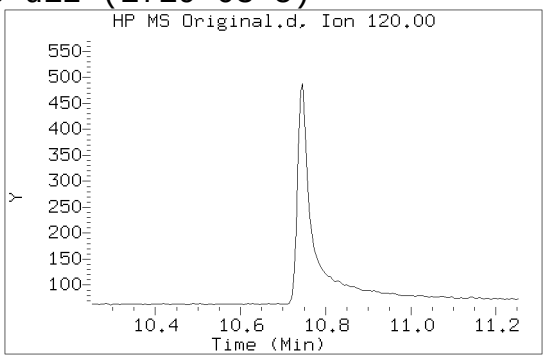
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\20.D
Inj Date : 26-JAN-2023 17:40
InstruID : SV6.i
LabSampID : 1 4-DX-0.05

Chrysene-d12 (1719-03-5)

Reason Code:

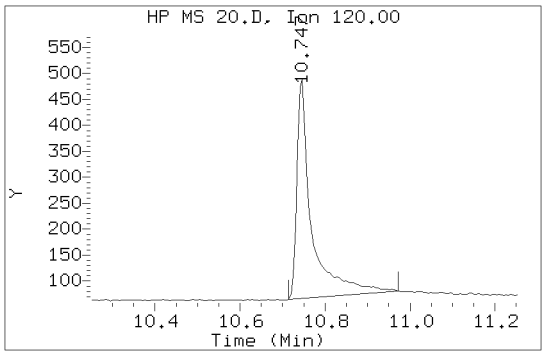
BEFORE

MASS
120
AREA
0
HEIGHT
0
26-Jan-2023
17:55
ALSHS
Server



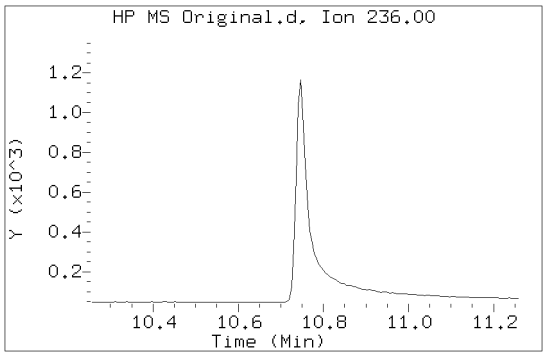
AFTER

MASS
120
AREA
1018
HEIGHT
420
27-Jan-2023
11:55



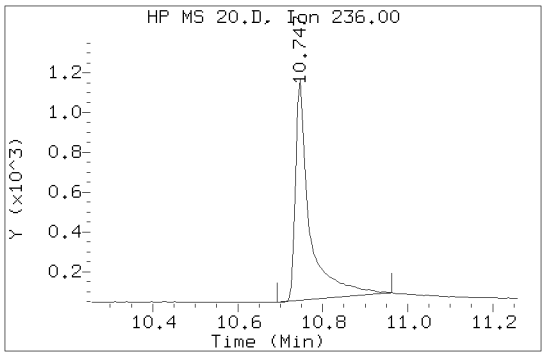
BEFORE

MASS
236
AREA
0
HEIGHT
0
26-Jan-2023
17:55
ALSHS
Server



AFTER

MASS
236
AREA
2566
HEIGHT
1106
27-Jan-2023
11:55

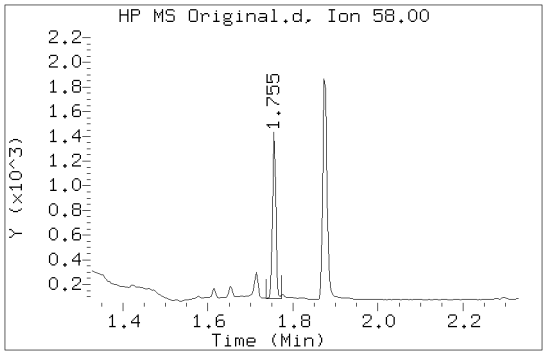


1,4-Dioxane ()

Reason Code:

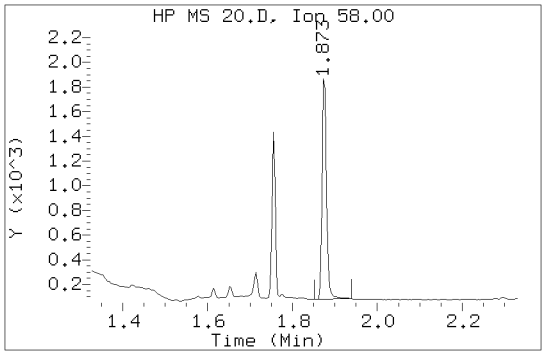
BEFORE

MASS
58
AREA
732
HEIGHT
1346
26-Jan-2023
17:55
ALSHS
Server



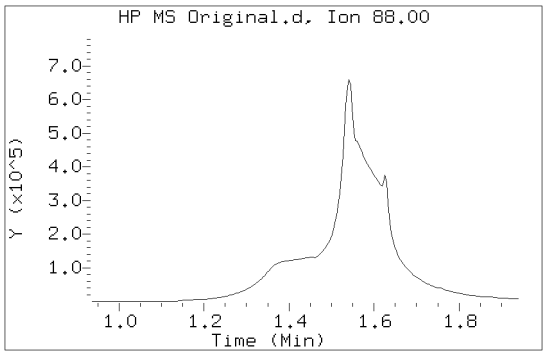
AFTER

MASS
58
AREA
1266
HEIGHT
1783
27-Jan-2023
11:55



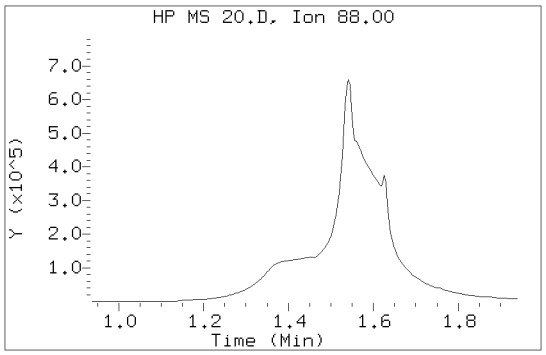
BEFORE

MASS
88
AREA
0
HEIGHT
0
26-Jan-2023
17:55
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
27-Jan-2023
11:55



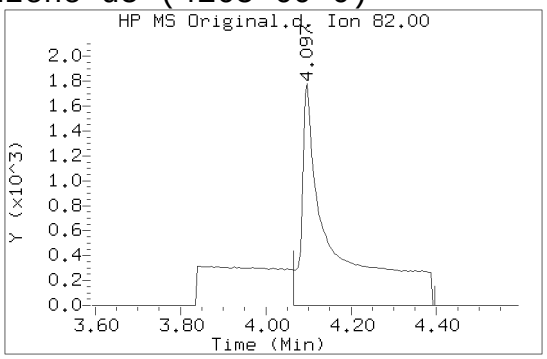
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\20.D
Inj Date : 26-JAN-2023 17:40
InstruID : SV6.i
LabSampID : 1 4-DX-0.05

Nitrobenzene-d5 (4165-60-0)

Reason Code:

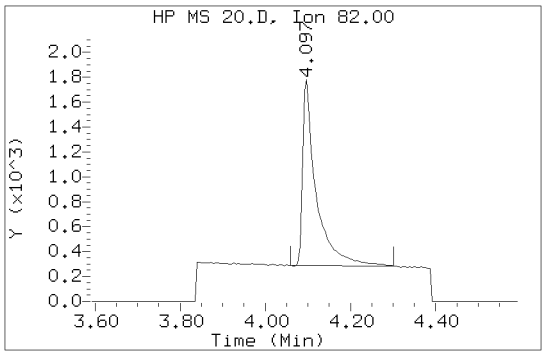
BEFORE

MASS
82
AREA
8797
HEIGHT
1780
26-Jan-2023
17:55
ALSHS
Server



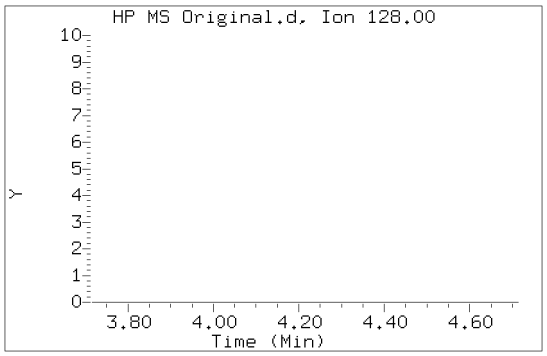
AFTER

MASS
82
AREA
3292
HEIGHT
1493
27-Jan-2023
11:55



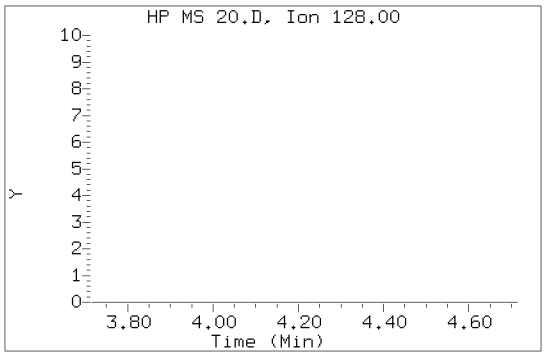
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jan-2023
17:55
ALSHS
Server



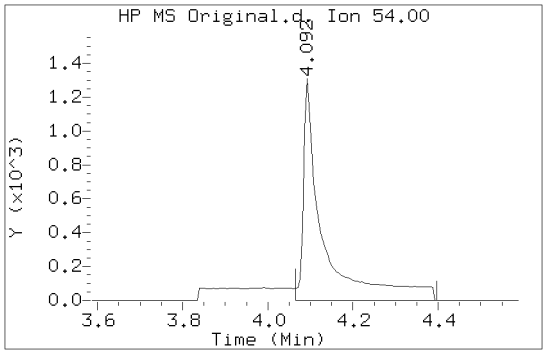
AFTER

MASS
128
AREA
0
HEIGHT
0
27-Jan-2023
11:55



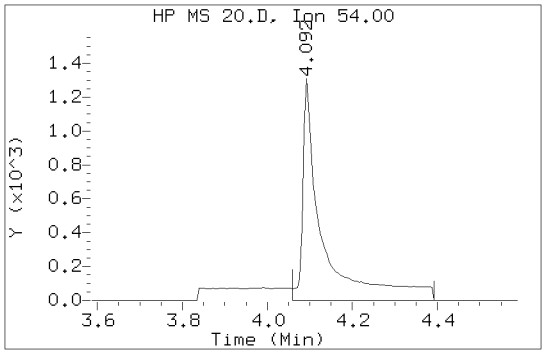
BEFORE

MASS
54
AREA
4158
HEIGHT
1309
26-Jan-2023
17:55
ALSHS
Server



AFTER

MASS
54
AREA
4202
HEIGHT
1309
27-Jan-2023
11:55

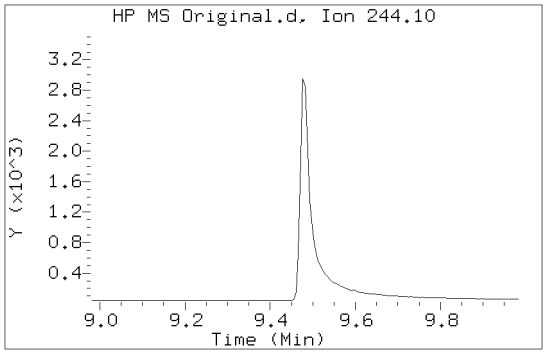


4-Terphenyl-d14 (1718-51-0)

Reason Code:

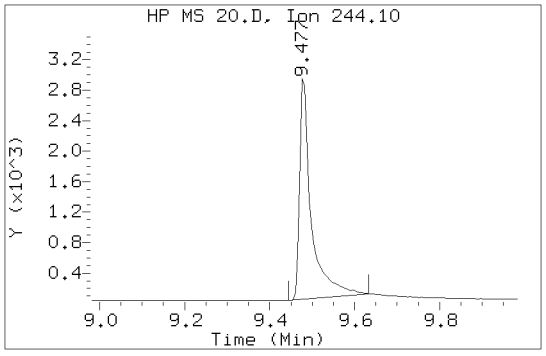
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
26-Jan-2023
17:55
ALSHS
Server



AFTER

MASS
244.1
AREA
5479
HEIGHT
2890
27-Jan-2023
11:55

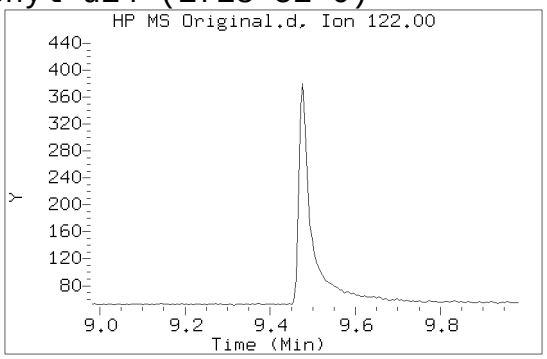


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\20.D
Inj Date : 26-JAN-2023 17:40
InstruID : SV6.i
LabSampID : 1 4-DX-0.05

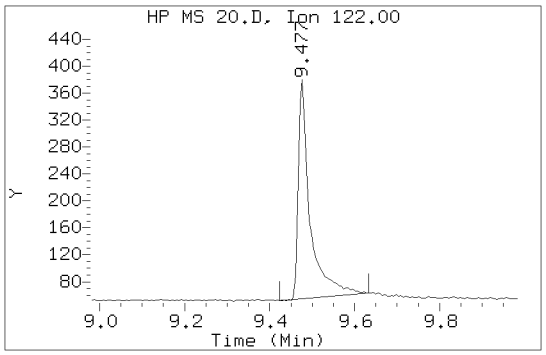
4-Terphenyl-d14 (1718-51-0)

Reason Code:

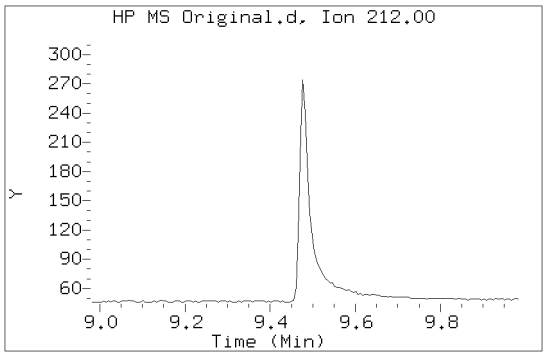
BEFORE
MASS
122
AREA
0
HEIGHT
0
26-Jan-2023
17:55
ALSHS
Server



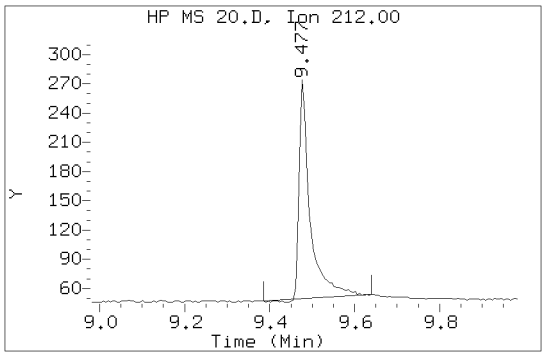
AFTER
MASS
122
AREA
621
HEIGHT
325
27-Jan-2023
11:55



BEFORE
MASS
212
AREA
0
HEIGHT
0
26-Jan-2023
17:55
ALSHS
Server



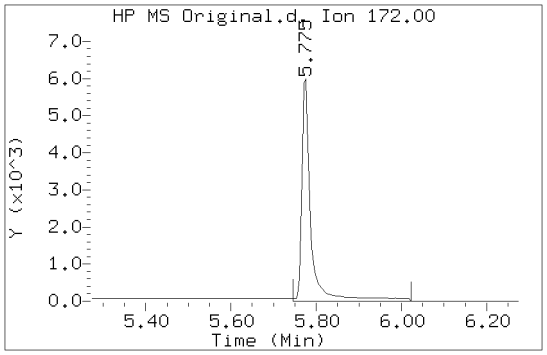
AFTER
MASS
212
AREA
394
HEIGHT
224
27-Jan-2023
11:55



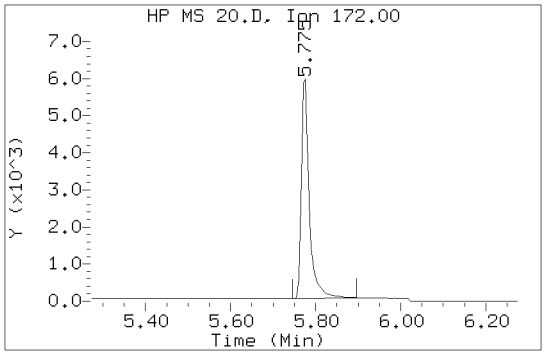
2-Fluorobiphenyl (321-60-8)

Reason Code:

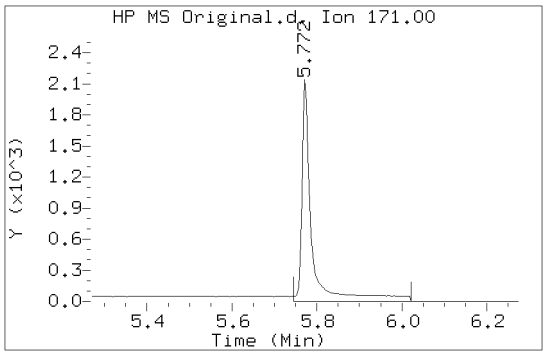
BEFORE
MASS
172
AREA
8878
HEIGHT
5991
26-Jan-2023
17:55
ALSHS
Server



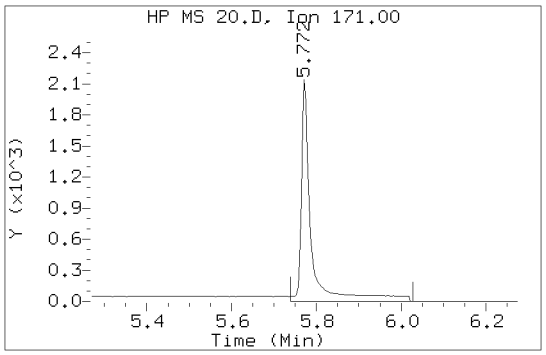
AFTER
MASS
172
AREA
7569
HEIGHT
5923
27-Jan-2023
11:55



BEFORE
MASS
171
AREA
3461
HEIGHT
2140
26-Jan-2023
17:55
ALSHS
Server



AFTER
MASS
171
AREA
3502
HEIGHT
2140
27-Jan-2023
11:55



Data File: \\NAHSTWS005\Target\chem\SV6.i\230126.b\21.D Page 1
Report Date: 27-Jan-2023 11:55

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230126.b\21.D
Lab Smp Id: 1 4-DX-0.08 Client Smp ID: 1 4-DX-0.08
Inj Date : 26-JAN-2023 17:58
Operator : LG Inst ID: SV6.i
Smp Info : 1 4-DX-0.08;1 4-DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230126.b\DXSIM.m
Meth Date : 27-Jan-2023 11:55 SV6.i Quant Type: ISTD
Cal Date : 26-JAN-2023 17:40 Cal File: 20.D
Als bottle: 20 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.619	3.619	(1.000)	4575	0.10000	(aM)
* 45 Naphthalene-d8	136	4.747	4.747	(1.000)	15544	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.092	4.092	(0.862)	3532	0.08000	0.07875(M)
* 86 Acenaphthene-d10	164	6.429	6.429	(1.000)	8772	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.775	5.775	(0.898)	9154	0.08000	0.07951(M)
* 126 Phenanthrene-d10	188	7.885	7.885	(1.000)	17186	0.10000	(M)
* 182 Chrysene-d12	240	10.752	10.752	(1.000)	6062	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.482	9.482	(0.882)	7348	0.08000	0.07318(M)
* 198 Perylene-d12	264	12.852	12.852	(1.000)	5003	0.10000	
1 1,4-Dioxane	58	1.843	1.843	(0.509)	1216	0.08000	0.07286(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

01184679

Data File: \\NAHSTWS005\Target\chem\SV6.i\230126.b\21.D

Date : 26-JAN-2023 17:58

Client ID: 1 4-DX-0.08

Instrument: SV6.i

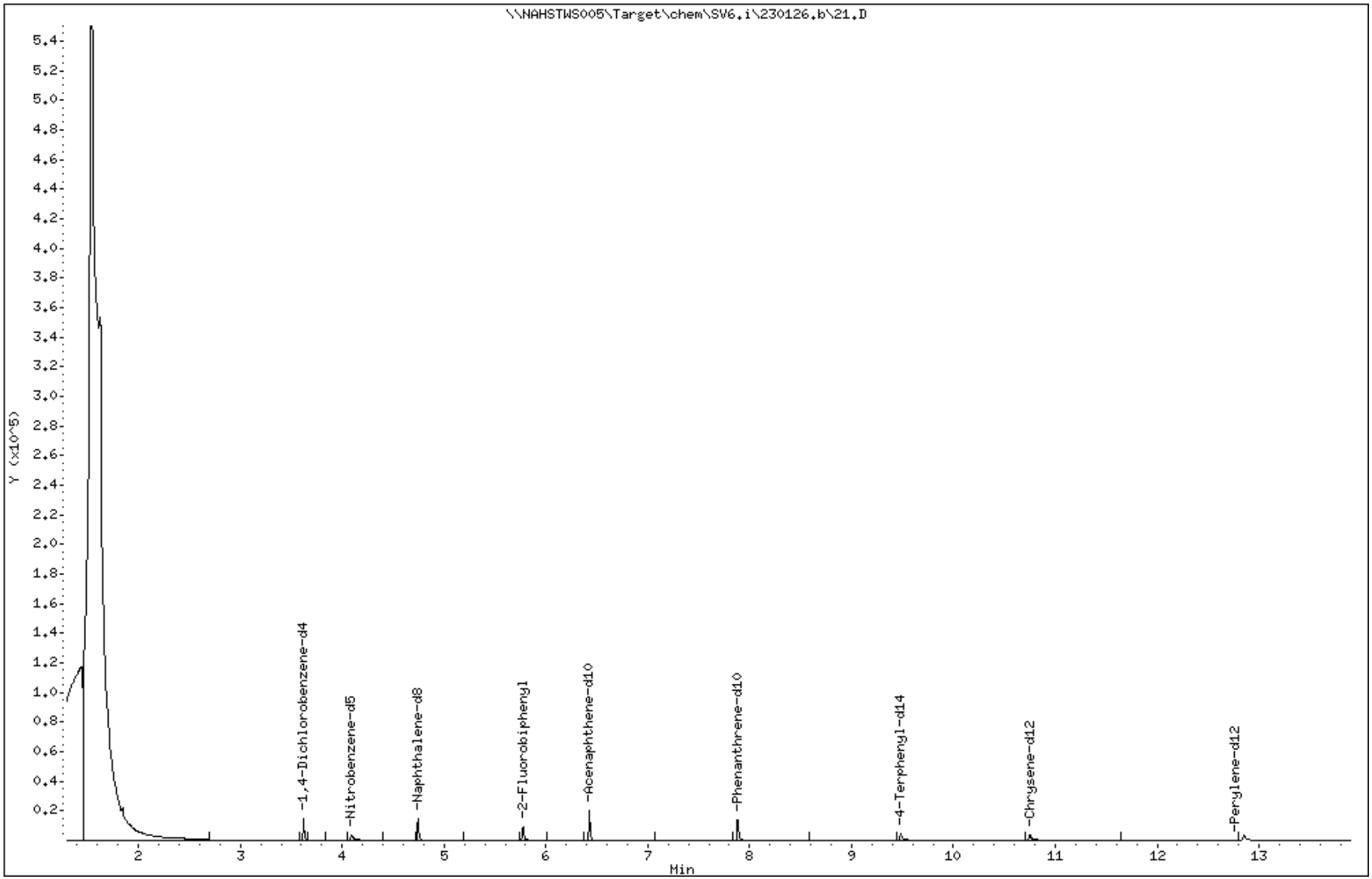
Sample Info: 1 4-DX-0.08;1 4-DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



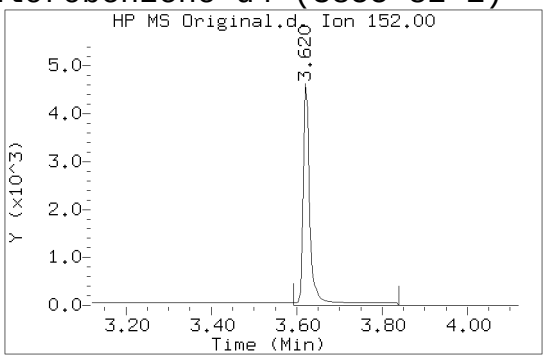
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\21.D
Inj Date : 26-JAN-2023 17:58
InstruID : SV6.i
LabSampID : 1 4-DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

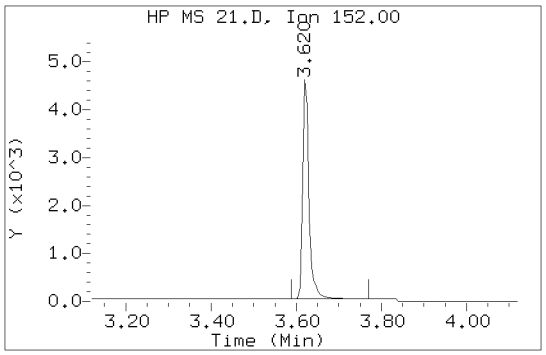
BEFORE

MASS
152
AREA
5358
HEIGHT
4629
26-Jan-2023
18:12
ALSHS
Server



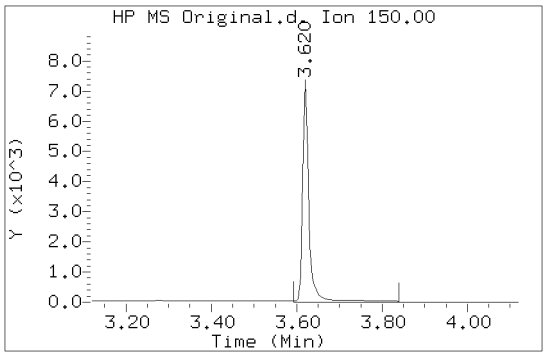
AFTER

MASS
152
AREA
4575
HEIGHT
4577
27-Jan-2023
11:55



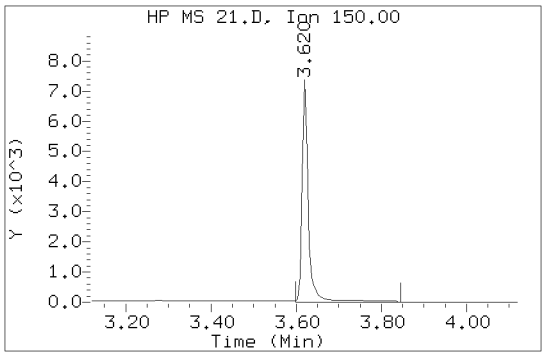
BEFORE

MASS
150
AREA
7614
HEIGHT
7372
26-Jan-2023
18:12
ALSHS
Server



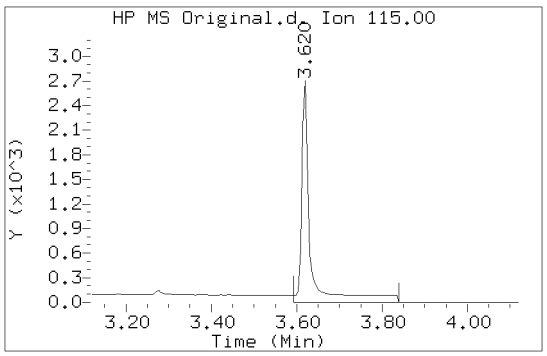
AFTER

MASS
150
AREA
7598
HEIGHT
7372
27-Jan-2023
11:55



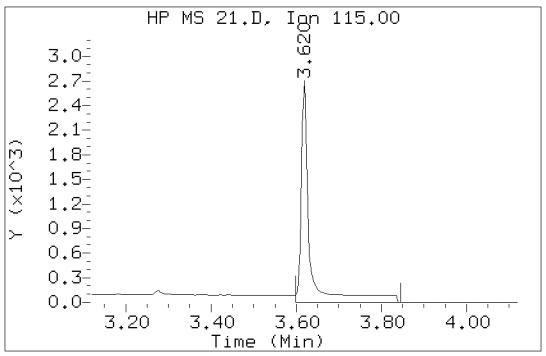
BEFORE

MASS
115
AREA
3820
HEIGHT
2704
26-Jan-2023
18:12
ALSHS
Server



AFTER

MASS
115
AREA
3792
HEIGHT
2704
27-Jan-2023
11:55

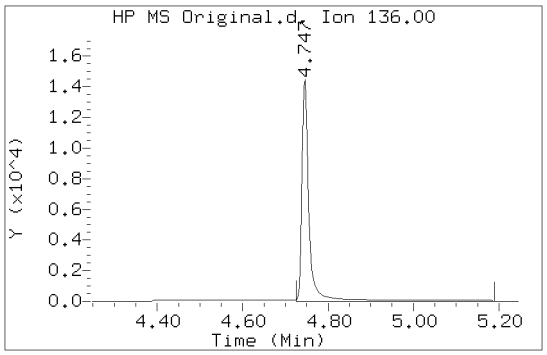


Naphthalene-d8 (1146-65-2)

Reason Code:

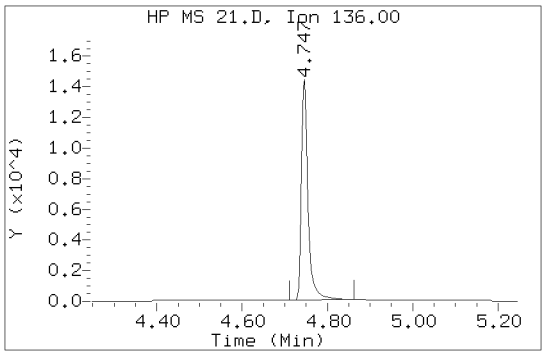
BEFORE

MASS
136
AREA
17931
HEIGHT
14466
26-Jan-2023
18:12
ALSHS
Server



AFTER

MASS
136
AREA
15544
HEIGHT
14387
27-Jan-2023
11:55



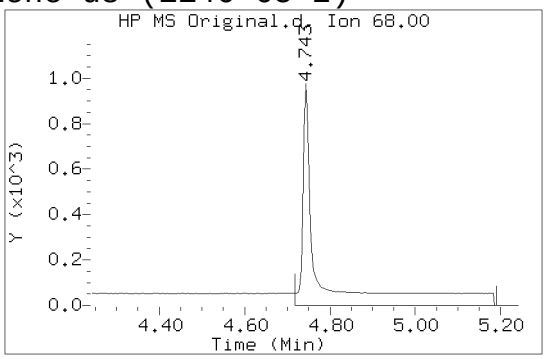
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\21.D
Inj Date : 26-JAN-2023 17:58
InstruID : SV6.i
LabSampID : 1 4-DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

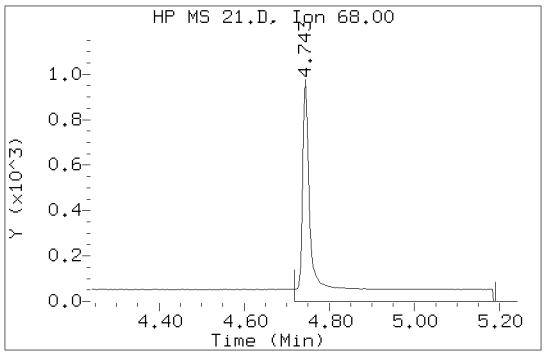
BEFORE

MASS
68
AREA
2481
HEIGHT
976
26-Jan-2023
18:12
ALSHS
Server



AFTER

MASS
68
AREA
2481
HEIGHT
976
27-Jan-2023
11:55

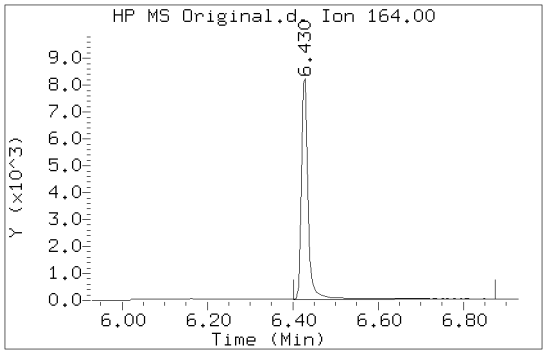


Acenaphthene-d10 (15067-26-2)

Reason Code:

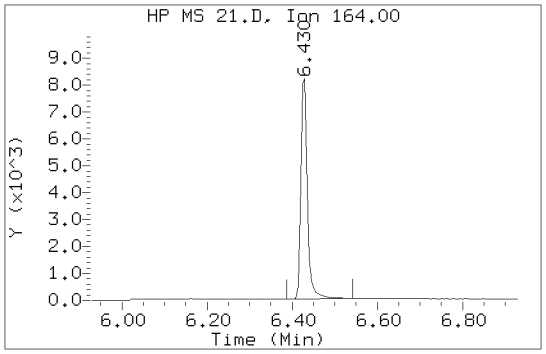
BEFORE

MASS
164
AREA
9409
HEIGHT
8212
26-Jan-2023
18:12
ALSHS
Server



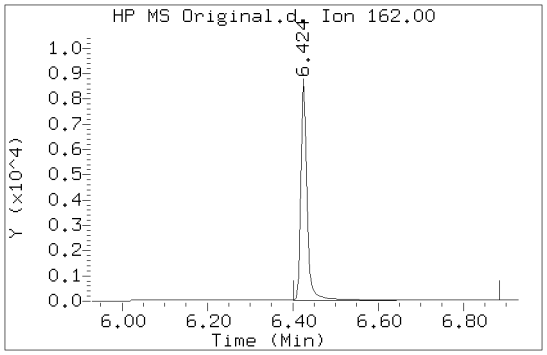
AFTER

MASS
164
AREA
8772
HEIGHT
8177
27-Jan-2023
11:55



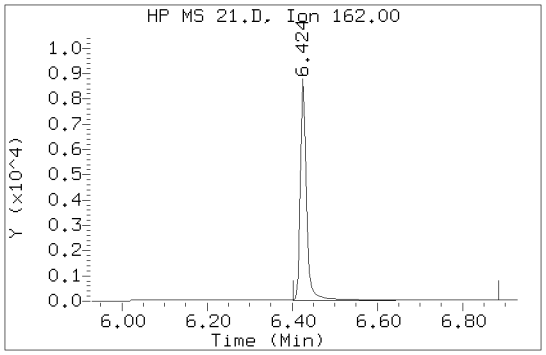
BEFORE

MASS
162
AREA
9264
HEIGHT
8767
26-Jan-2023
18:12
ALSHS
Server



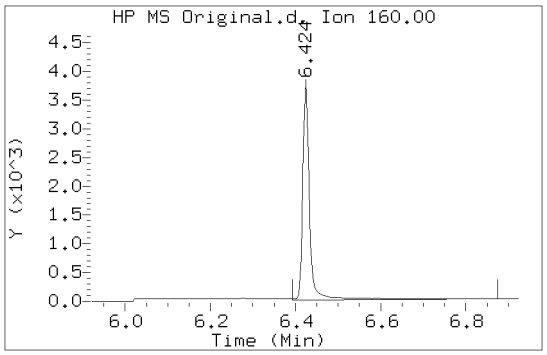
AFTER

MASS
162
AREA
9264
HEIGHT
8767
27-Jan-2023
11:55



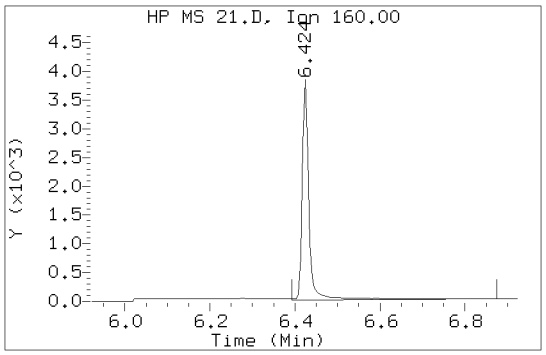
BEFORE

MASS
160
AREA
4244
HEIGHT
3833
26-Jan-2023
18:12
ALSHS
Server



AFTER

MASS
160
AREA
4244
HEIGHT
3833
27-Jan-2023
11:55



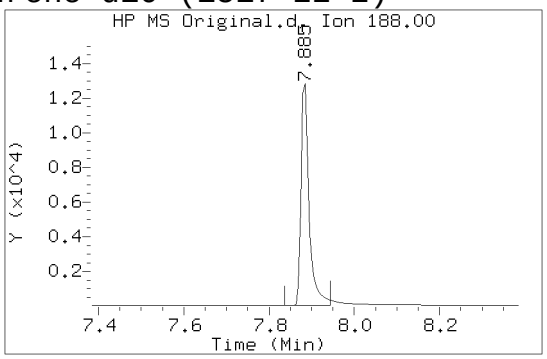
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\21.D
Inj Date : 26-JAN-2023 17:58
InstruID : SV6.i
LabSampID : 1 4-DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

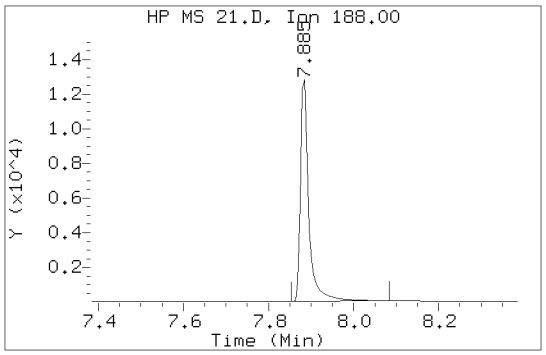
BEFORE

MASS
188
AREA
16671
HEIGHT
12786
26-Jan-2023
18:12
ALSHS
Server



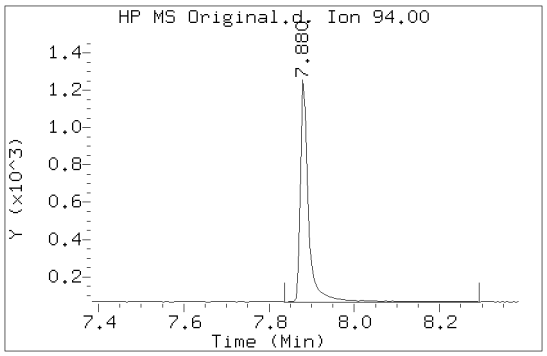
AFTER

MASS
188
AREA
17186
HEIGHT
12781
27-Jan-2023
11:55



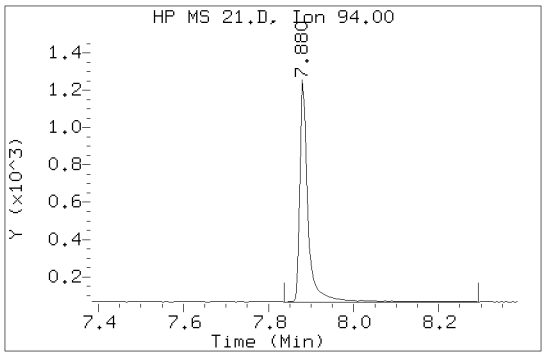
BEFORE

MASS
94
AREA
1592
HEIGHT
1191
26-Jan-2023
18:12
ALSHS
Server



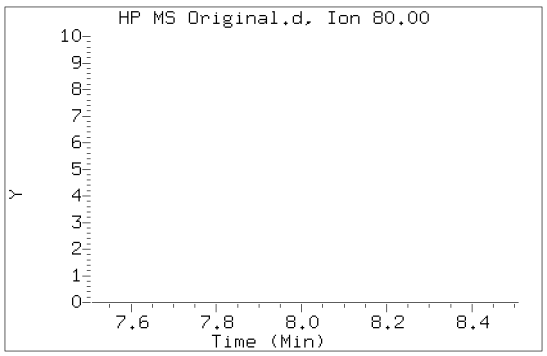
AFTER

MASS
94
AREA
1592
HEIGHT
1191
27-Jan-2023
11:55



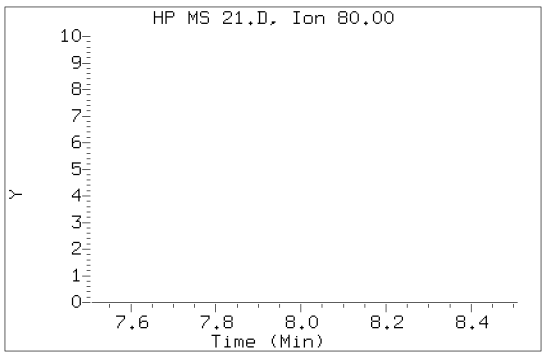
BEFORE

MASS
80
AREA
0
HEIGHT
0
26-Jan-2023
18:12
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
27-Jan-2023
11:55

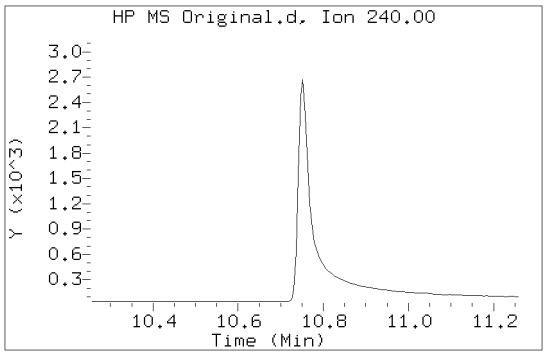


Chrysene-d12 (1719-03-5)

Reason Code:

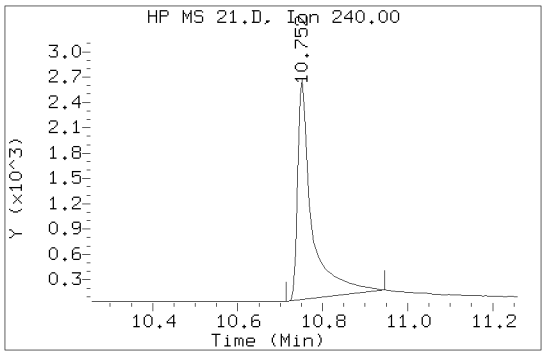
BEFORE

MASS
240
AREA
0
HEIGHT
0
26-Jan-2023
18:12
ALSHS
Server



AFTER

MASS
240
AREA
6062
HEIGHT
2601
27-Jan-2023
11:55

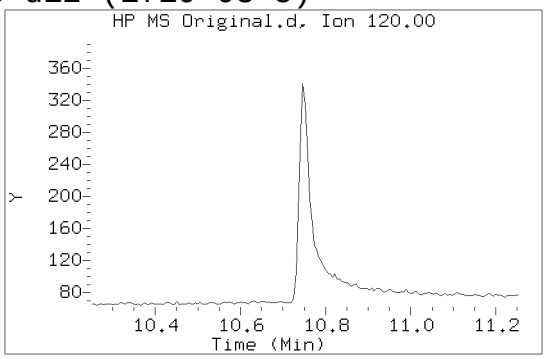


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\21.D
Inj Date : 26-JAN-2023 17:58
InstruID : SV6.i
LabSampID : 1 4-DX-0.08

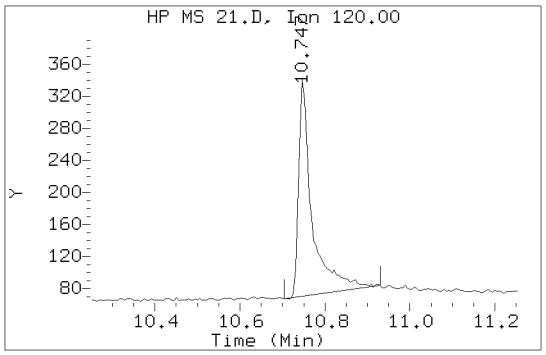
Chrysene-d12 (1719-03-5)

Reason Code:

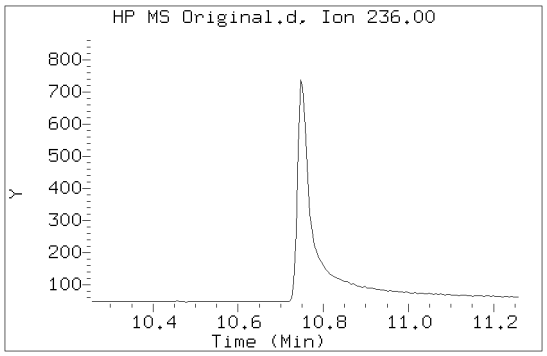
BEFORE
MASS
120
AREA
0
HEIGHT
0
26-Jan-2023
18:12
ALSHS
Server



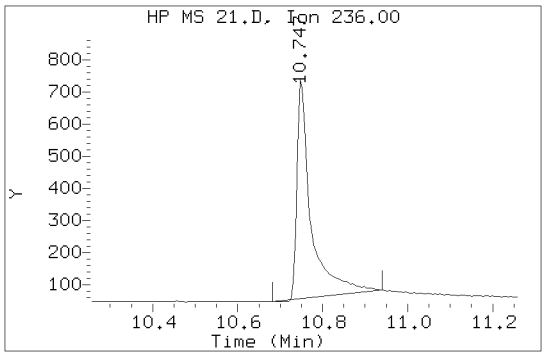
AFTER
MASS
120
AREA
595
HEIGHT
270
27-Jan-2023
11:55



BEFORE
MASS
236
AREA
0
HEIGHT
0
26-Jan-2023
18:12
ALSHS
Server



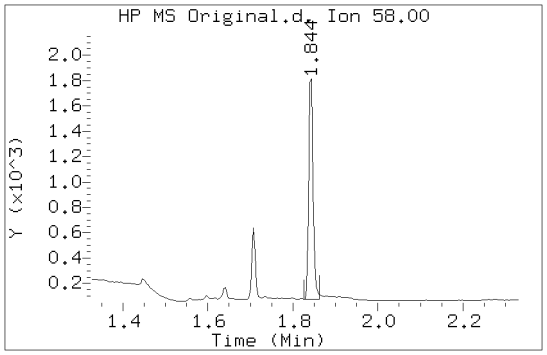
AFTER
MASS
236
AREA
1567
HEIGHT
680
27-Jan-2023
11:55



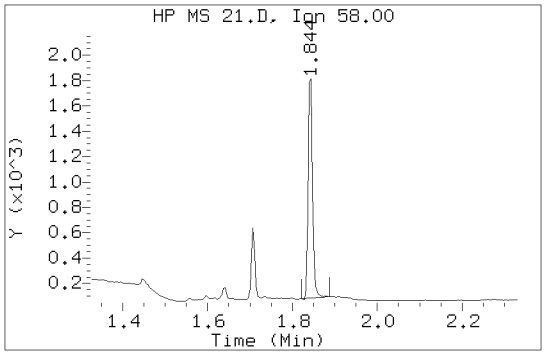
1,4-Dioxane ()

Reason Code:

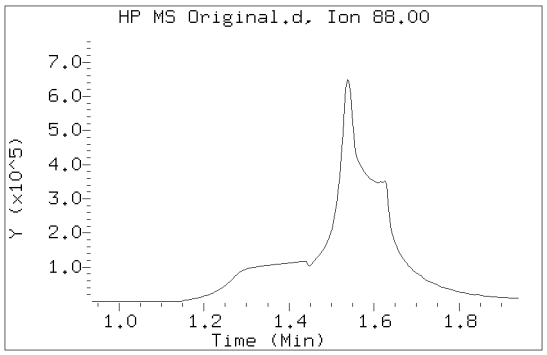
BEFORE
MASS
58
AREA
1228
HEIGHT
1738
26-Jan-2023
18:12
ALSHS
Server



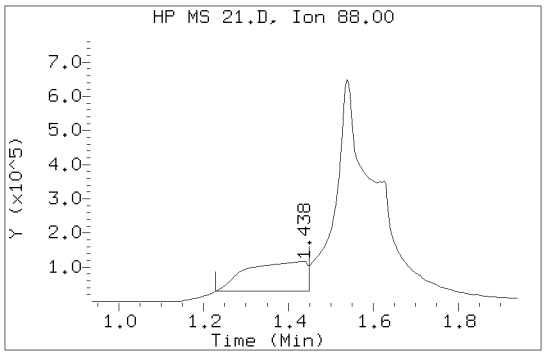
AFTER
MASS
58
AREA
1216
HEIGHT
1728
27-Jan-2023
11:55



BEFORE
MASS
88
AREA
0
HEIGHT
0
26-Jan-2023
18:12
ALSHS
Server



AFTER
MASS
88
AREA
856918
HEIGHT
87976
27-Jan-2023
11:55



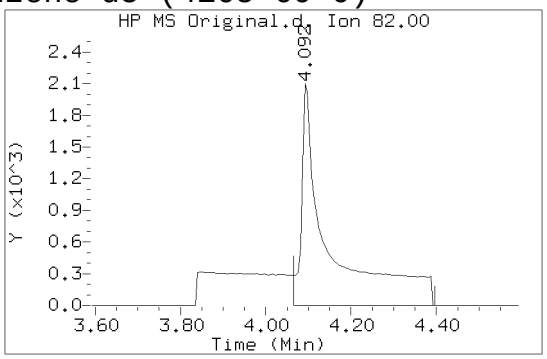
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\21.D
Inj Date : 26-JAN-2023 17:58
InstruID : SV6.i
LabSampID : 1 4-DX-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

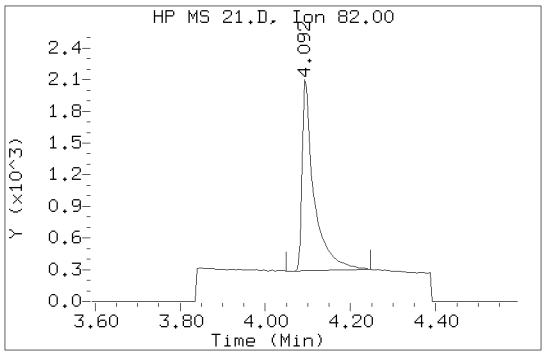
BEFORE

MASS
82
AREA
9169
HEIGHT
2100
26-Jan-2023
18:12
ALSHS
Server



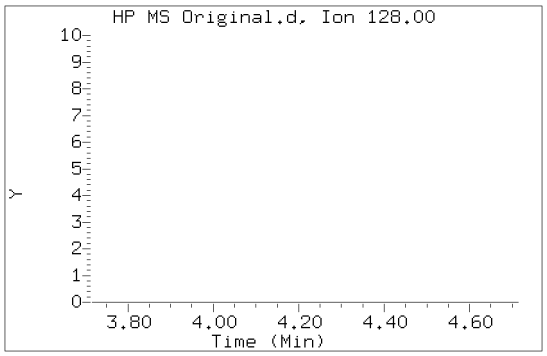
AFTER

MASS
82
AREA
3532
HEIGHT
1809
27-Jan-2023
11:55



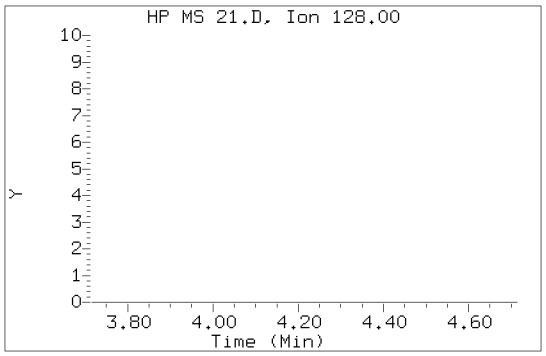
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jan-2023
18:12
ALSHS
Server



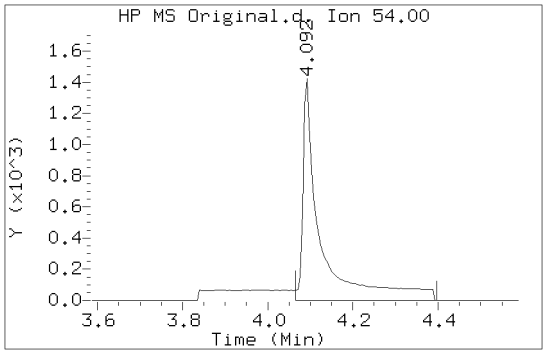
AFTER

MASS
128
AREA
0
HEIGHT
0
27-Jan-2023
11:55



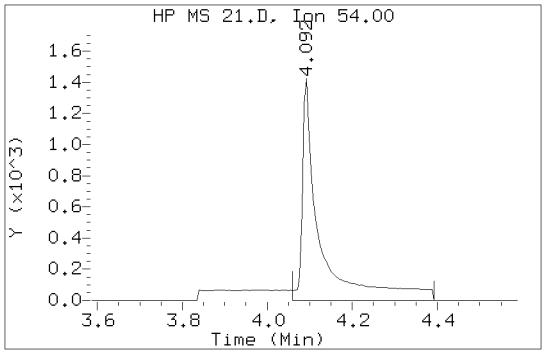
BEFORE

MASS
54
AREA
4059
HEIGHT
1423
26-Jan-2023
18:12
ALSHS
Server



AFTER

MASS
54
AREA
4100
HEIGHT
1423
27-Jan-2023
11:55

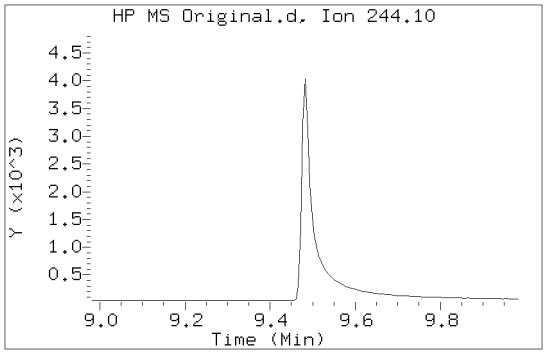


4-Terphenyl-d14 (1718-51-0)

Reason Code:

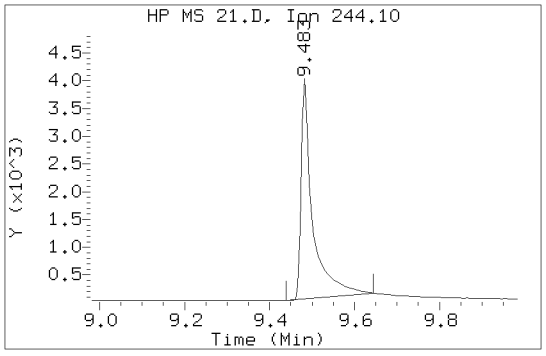
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
26-Jan-2023
18:12
ALSHS
Server



AFTER

MASS
244.1
AREA
7348
HEIGHT
3964
27-Jan-2023
11:55

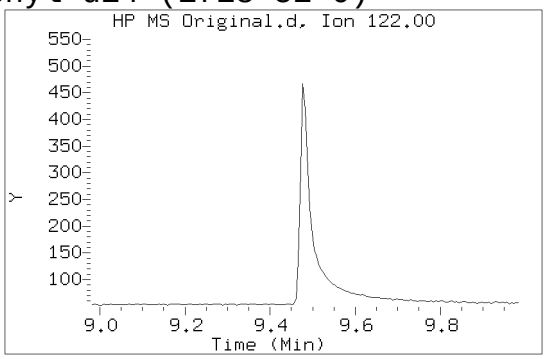


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\21.D
Inj Date : 26-JAN-2023 17:58
InstruID : SV6.i
LabSampID : 1 4-DX-0.08

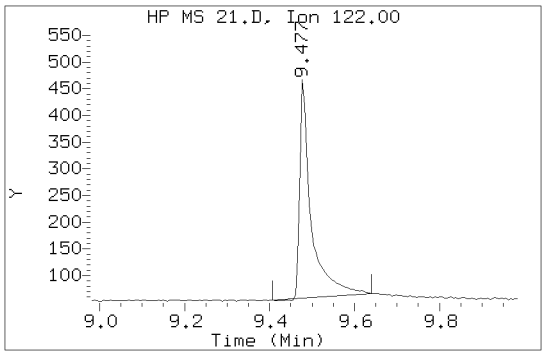
4-Terphenyl-d14 (1718-51-0)

Reason Code:

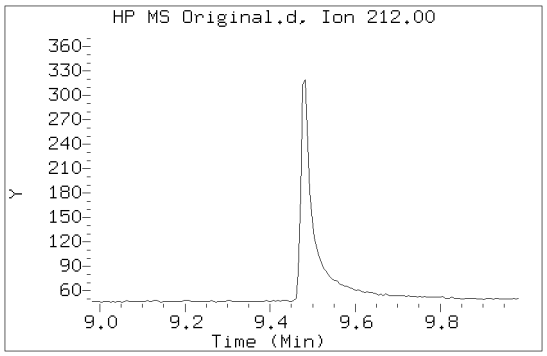
BEFORE
MASS
122
AREA
0
HEIGHT
0
26-Jan-2023
18:12
ALSHS
Server



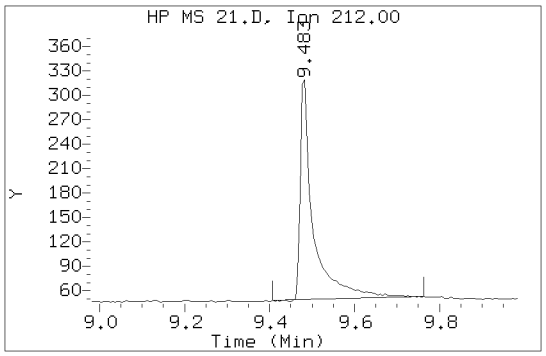
AFTER
MASS
122
AREA
760
HEIGHT
409
27-Jan-2023
11:55



BEFORE
MASS
212
AREA
0
HEIGHT
0
26-Jan-2023
18:12
ALSHS
Server



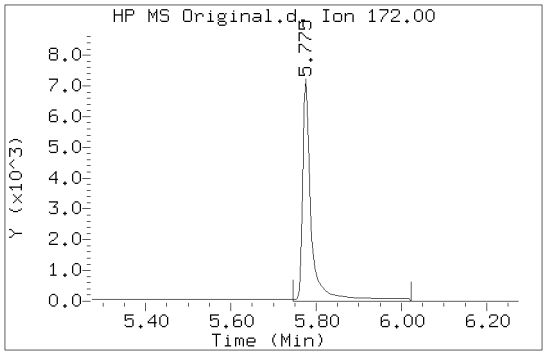
AFTER
MASS
212
AREA
569
HEIGHT
269
27-Jan-2023
11:55



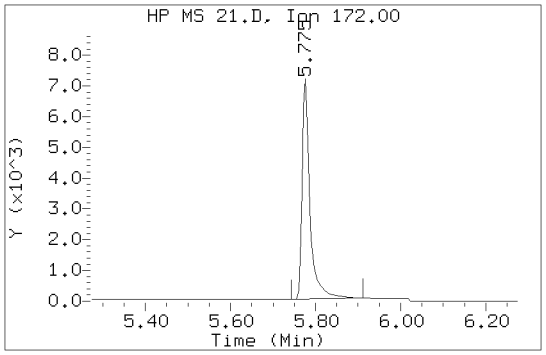
2-Fluorobiphenyl (321-60-8)

Reason Code:

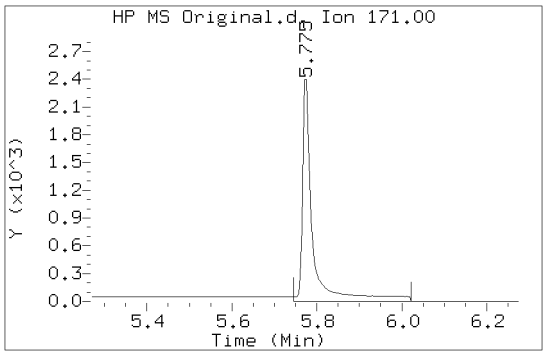
BEFORE
MASS
172
AREA
10503
HEIGHT
7226
26-Jan-2023
18:12
ALSHS
Server



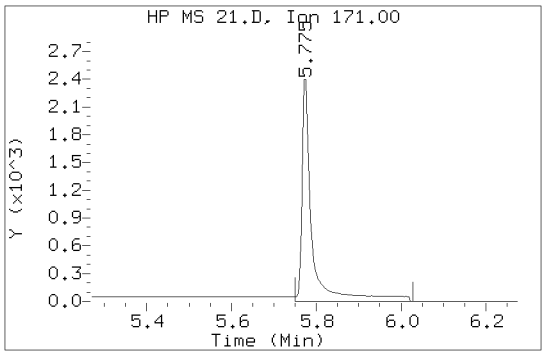
AFTER
MASS
172
AREA
9154
HEIGHT
7158
27-Jan-2023
11:55



BEFORE
MASS
171
AREA
4003
HEIGHT
2395
26-Jan-2023
18:12
ALSHS
Server



AFTER
MASS
171
AREA
4016
HEIGHT
2395
27-Jan-2023
11:55



Data File: \\NAHSTWS005\Target\chem\SV6.i\230126.b\22.D Page 1
Report Date: 27-Jan-2023 11:55

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230126.b\22.D
Lab Smp Id: 1 4-DX-0.1 Client Smp ID: 1 4-DX-0.1
Inj Date : 26-JAN-2023 18:16
Operator : LG Inst ID: SV6.i
Smp Info : 1 4-DX-0.1;1 4-DX-0.1
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230126.b\DXSIM.m
Meth Date : 27-Jan-2023 11:55 SV6.i Quant Type: ISTD
Cal Date : 26-JAN-2023 17:58 Cal File: 21.D
Als bottle: 21 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.619	3.619	(1.000)	4328	0.10000	(aM)
* 45 Naphthalene-d8	136	4.746	4.746	(1.000)	14841	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.092	4.092	(0.862)	4162	0.10000	0.09720(M)
* 86 Acenaphthene-d10	164	6.429	6.429	(1.000)	8212	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.775	5.775	(0.898)	10723	0.10000	0.09949(M)
* 126 Phenanthrene-d10	188	7.884	7.884	(1.000)	15031	0.10000	(M)
* 182 Chrysene-d12	240	10.752	10.752	(1.000)	5170	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.482	9.482	(0.882)	8150	0.10000	0.09008(M)
* 198 Perylene-d12	264	12.857	12.857	(1.000)	4432	0.10000	
1 1,4-Dioxane	58	1.836	1.836	(0.507)	1401	0.10000	0.08874(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

01184687

Data File: \\NAHSTWS005\Target\chem\SV6.i\230126.b\22.D

Page 1

Date : 26-JAN-2023 18:16

Client ID: 1 4-DX-0.1

Instrument: SV6.i

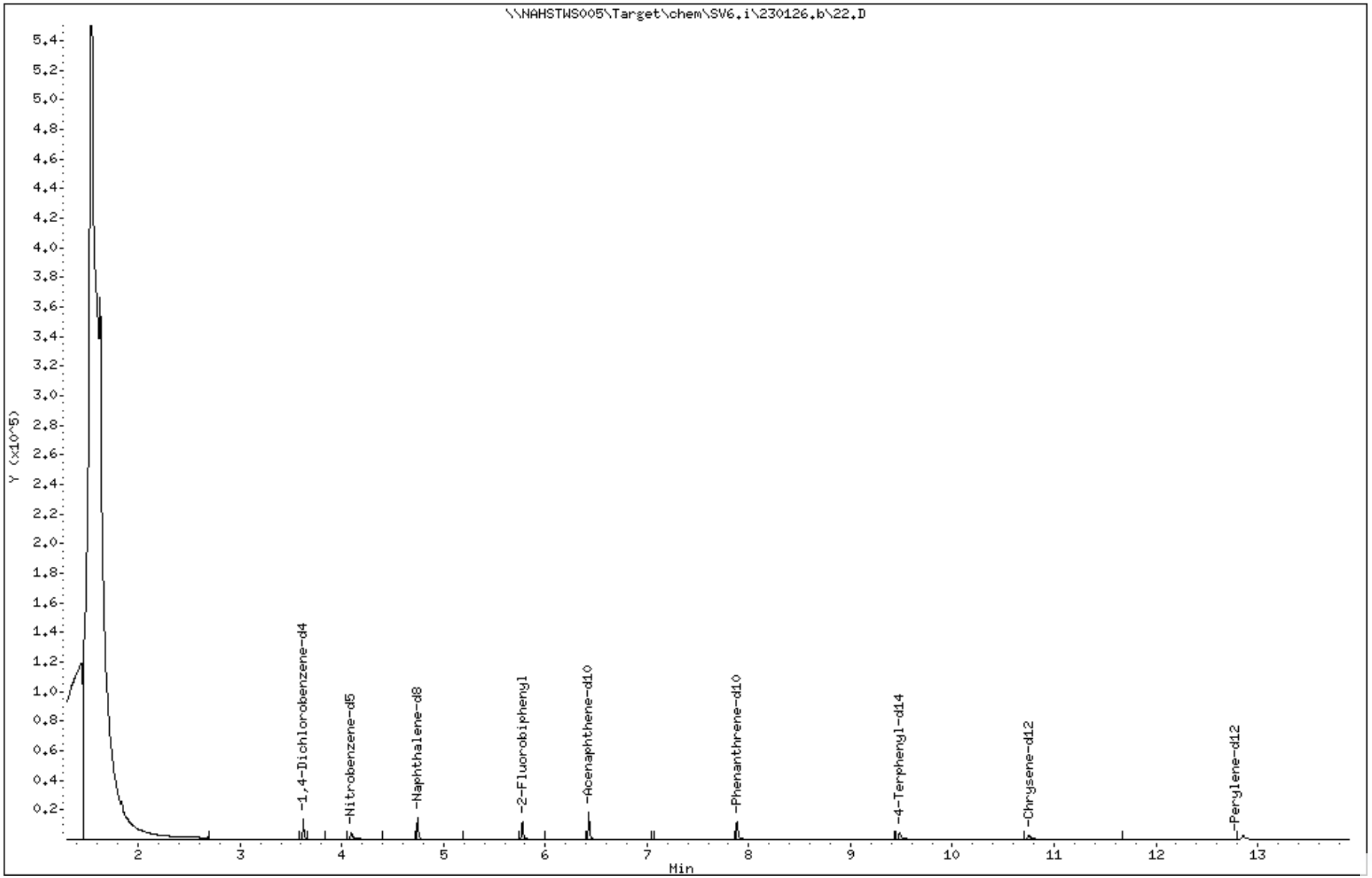
Sample Info: 1 4-DX-0.1;1 4-DX-0.1

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



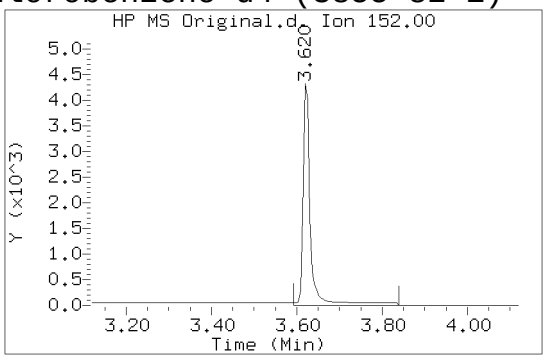
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\22.D
Inj Date : 26-JAN-2023 18:16
InstruID : SV6.i
LabSampID : 1 4-DX-0.1

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

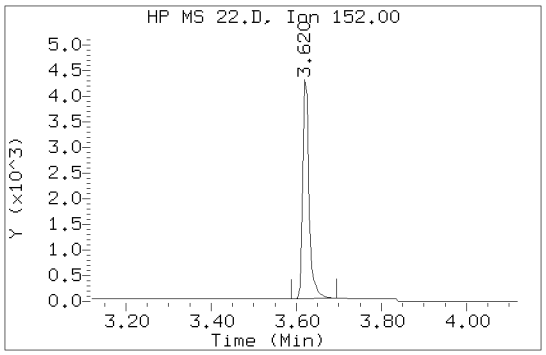
BEFORE

MASS
152
AREA
5152
HEIGHT
4327
26-Jan-2023
18:32
ALSHS
Server



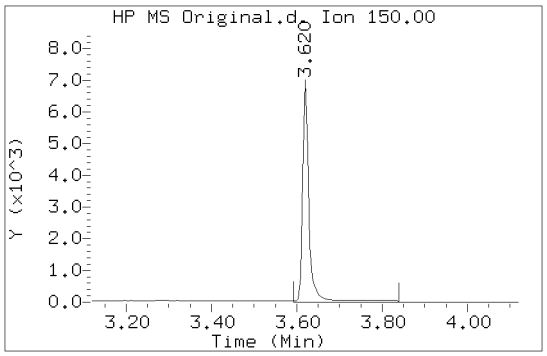
AFTER

MASS
152
AREA
4328
HEIGHT
4273
27-Jan-2023
11:55



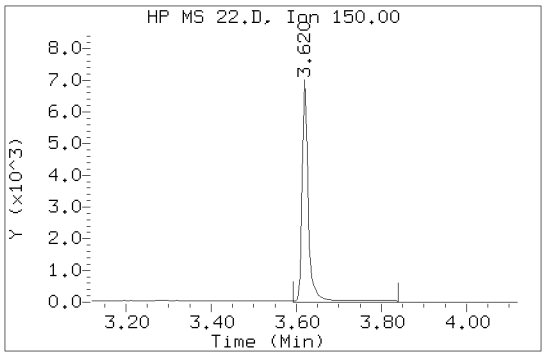
BEFORE

MASS
150
AREA
7314
HEIGHT
7012
26-Jan-2023
18:32
ALSHS
Server



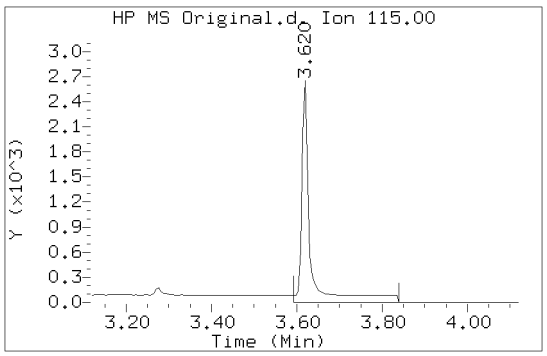
AFTER

MASS
150
AREA
7314
HEIGHT
7012
27-Jan-2023
11:55



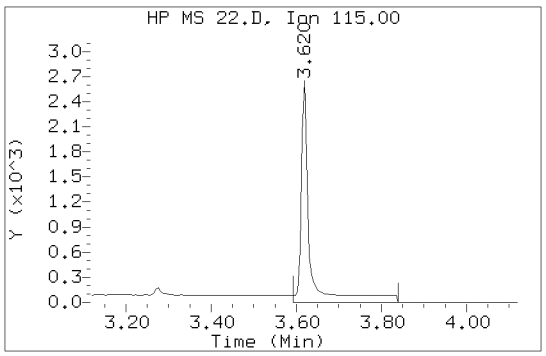
BEFORE

MASS
115
AREA
3675
HEIGHT
2651
26-Jan-2023
18:32
ALSHS
Server



AFTER

MASS
115
AREA
3675
HEIGHT
2651
27-Jan-2023
11:55

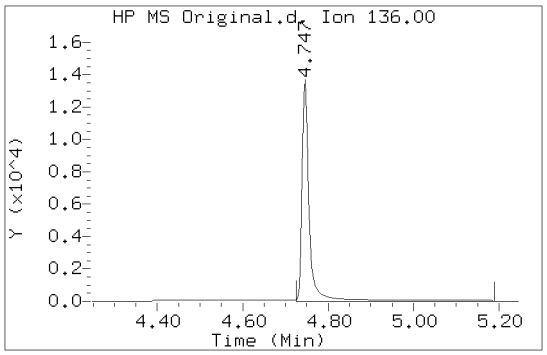


Naphthalene-d8 (1146-65-2)

Reason Code:

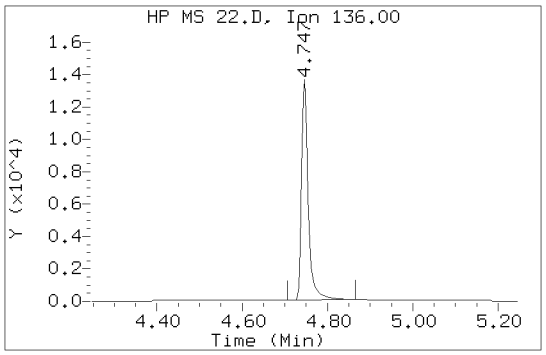
BEFORE

MASS
136
AREA
17167
HEIGHT
13688
26-Jan-2023
18:32
ALSHS
Server



AFTER

MASS
136
AREA
14841
HEIGHT
13609
27-Jan-2023
11:55



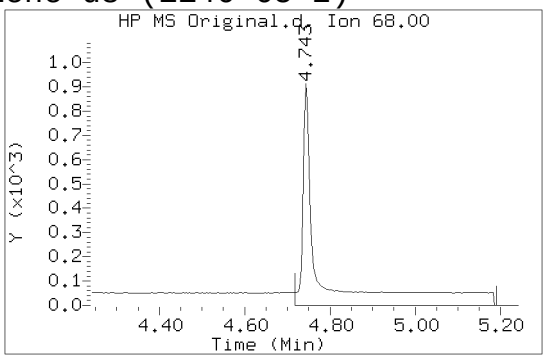
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\22.D
Inj Date : 26-JAN-2023 18:16
InstruID : SV6.i
LabSampID : 1 4-DX-0.1

Naphthalene-d8 (1146-65-2)

Reason Code:

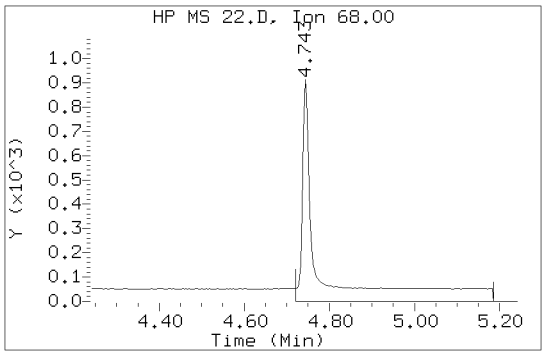
BEFORE

MASS
68
AREA
2417
HEIGHT
913
26-Jan-2023
18:32
ALSHS
Server



AFTER

MASS
68
AREA
2405
HEIGHT
913
27-Jan-2023
11:55

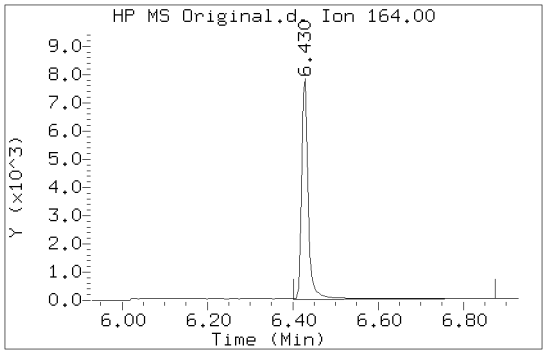


Acenaphthene-d10 (15067-26-2)

Reason Code:

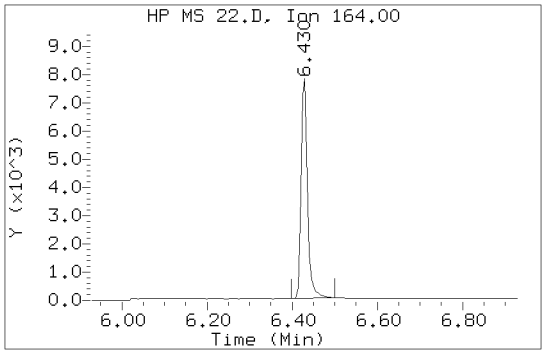
BEFORE

MASS
164
AREA
8927
HEIGHT
7829
26-Jan-2023
18:32
ALSHS
Server



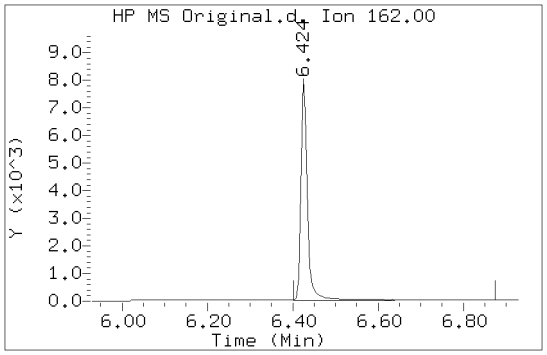
AFTER

MASS
164
AREA
8212
HEIGHT
7787
27-Jan-2023
11:55



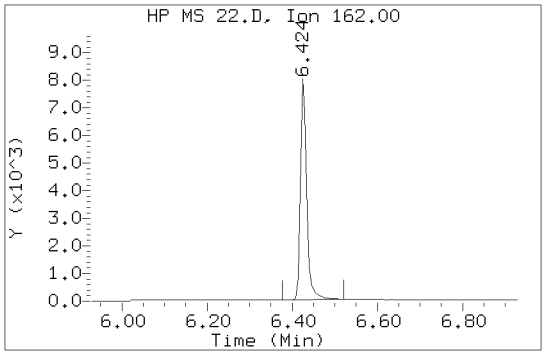
BEFORE

MASS
162
AREA
8833
HEIGHT
8026
26-Jan-2023
18:32
ALSHS
Server



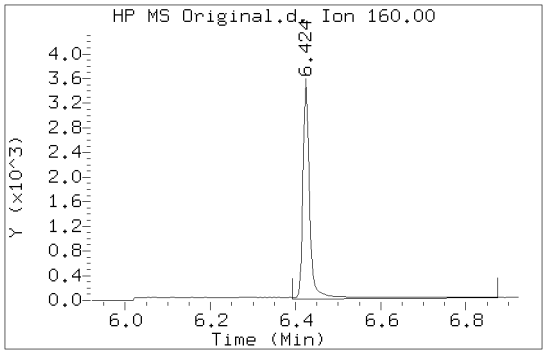
AFTER

MASS
162
AREA
8207
HEIGHT
7991
27-Jan-2023
11:55



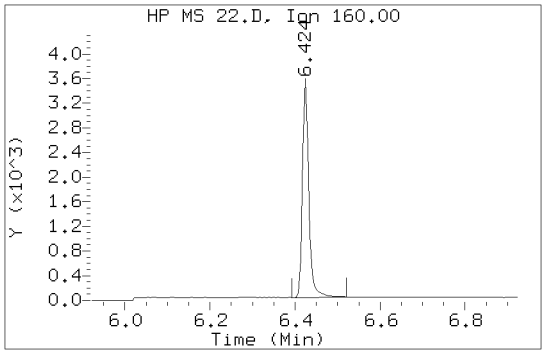
BEFORE

MASS
160
AREA
4049
HEIGHT
3576
26-Jan-2023
18:32
ALSHS
Server



AFTER

MASS
160
AREA
3560
HEIGHT
3549
27-Jan-2023
11:55



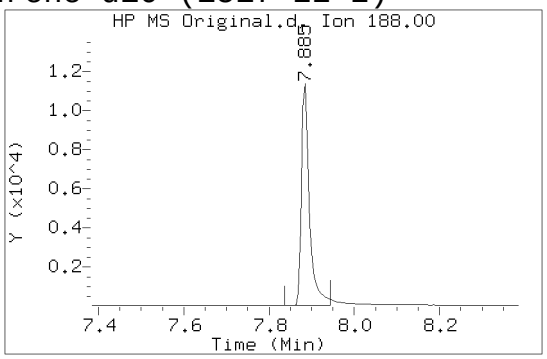
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\22.D
Inj Date : 26-JAN-2023 18:16
InstruID : SV6.i
LabSampID : 1 4-DX-0.1

Phenanthrene-d10 (1517-22-2)

Reason Code:

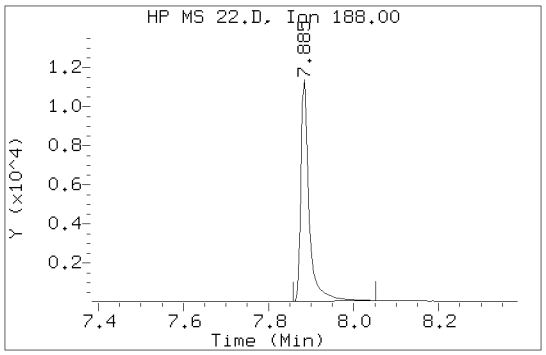
BEFORE

MASS
188
AREA
14633
HEIGHT
11338
26-Jan-2023
18:32
ALSHS
Server



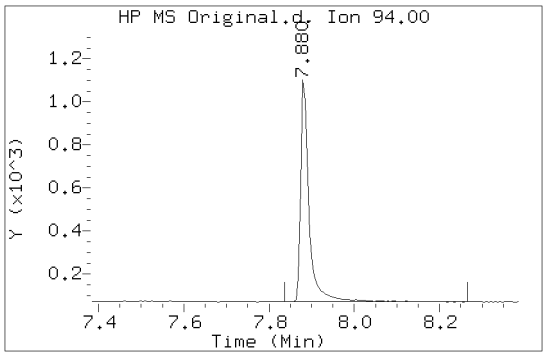
AFTER

MASS
188
AREA
15031
HEIGHT
11331
27-Jan-2023
11:55



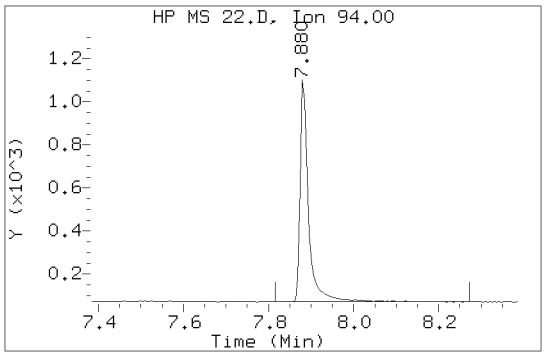
BEFORE

MASS
94
AREA
1412
HEIGHT
1030
26-Jan-2023
18:32
ALSHS
Server



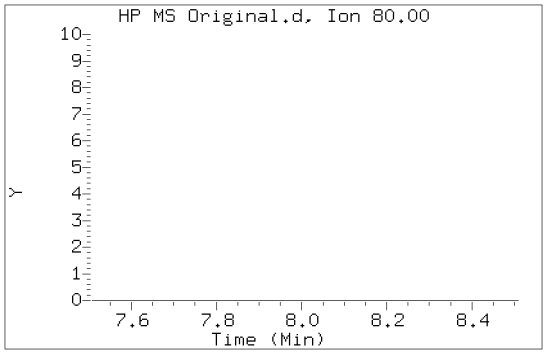
AFTER

MASS
94
AREA
1413
HEIGHT
1030
27-Jan-2023
11:55



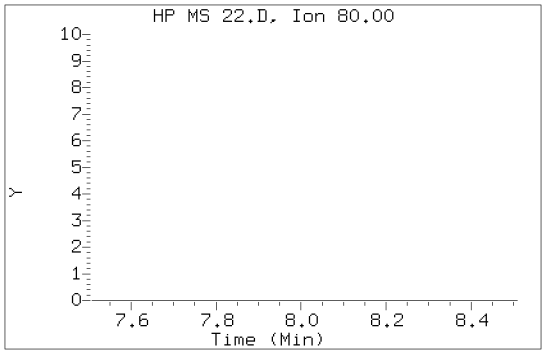
BEFORE

MASS
80
AREA
0
HEIGHT
0
26-Jan-2023
18:32
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
27-Jan-2023
11:55

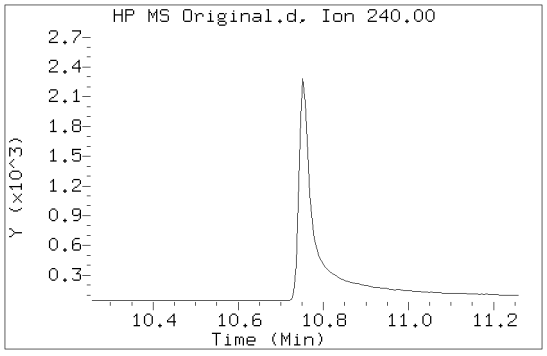


Chrysene-d12 (1719-03-5)

Reason Code:

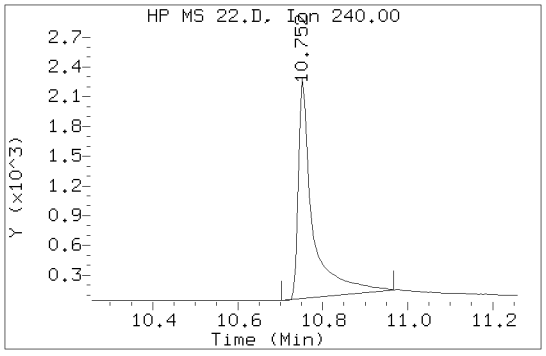
BEFORE

MASS
240
AREA
0
HEIGHT
0
26-Jan-2023
18:32
ALSHS
Server



AFTER

MASS
240
AREA
5170
HEIGHT
2215
27-Jan-2023
11:55

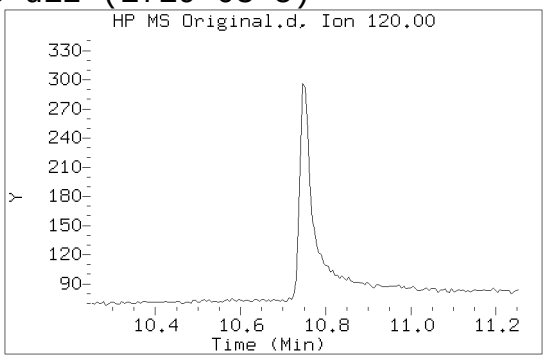


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\22.D
Inj Date : 26-JAN-2023 18:16
InstruID : SV6.i
LabSampID : 1 4-DX-0.1

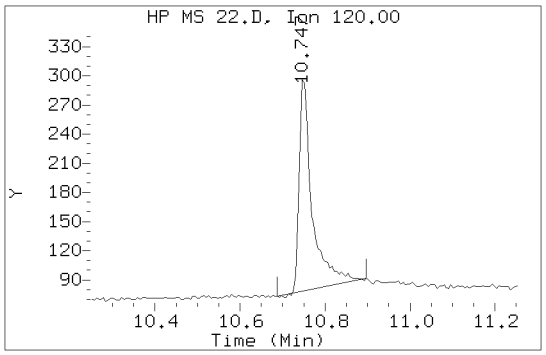
Chrysene-d12 (1719-03-5)

Reason Code:

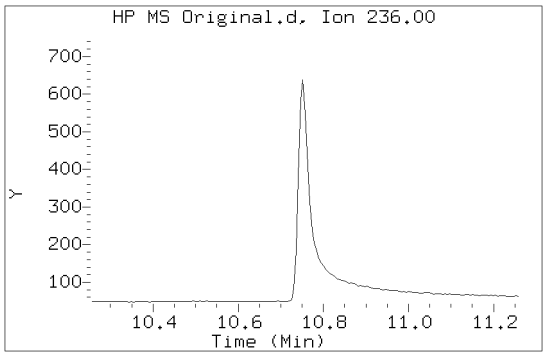
BEFORE
MASS
120
AREA
0
HEIGHT
0
26-Jan-2023
18:32
ALSHS
Server



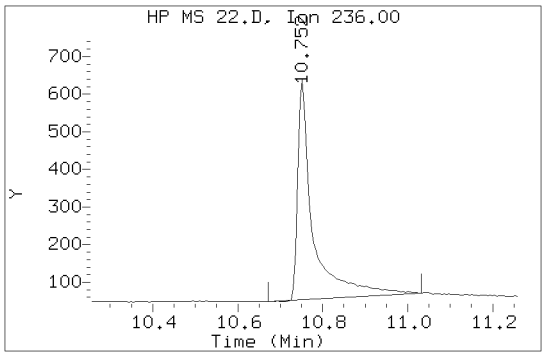
AFTER
MASS
120
AREA
457
HEIGHT
217
27-Jan-2023
11:55



BEFORE
MASS
236
AREA
0
HEIGHT
0
26-Jan-2023
18:32
ALSHS
Server



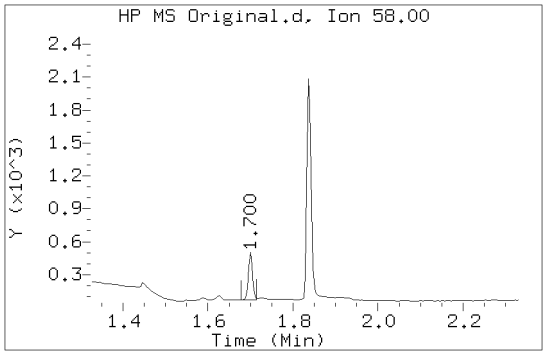
AFTER
MASS
236
AREA
1462
HEIGHT
584
27-Jan-2023
11:55



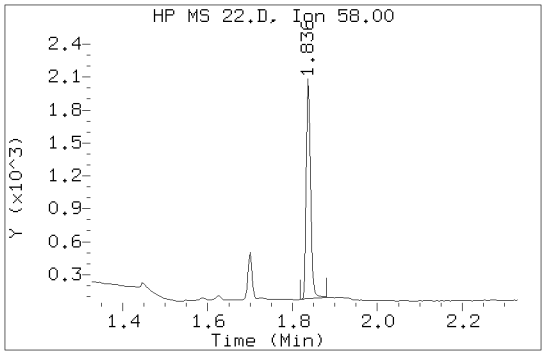
1,4-Dioxane ()

Reason Code:

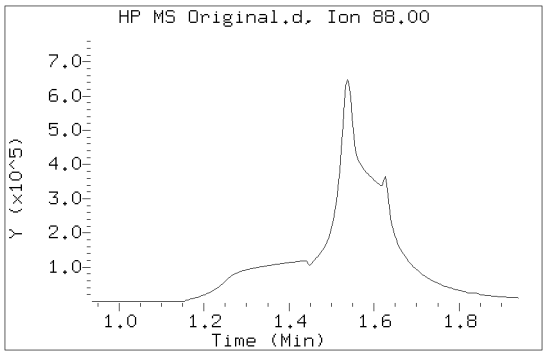
BEFORE
MASS
58
AREA
298
HEIGHT
432
26-Jan-2023
18:32
ALSHS
Server



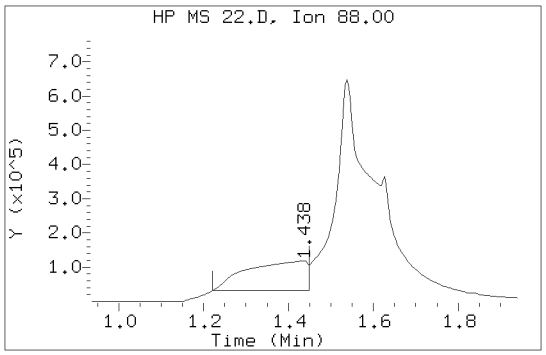
AFTER
MASS
58
AREA
1401
HEIGHT
2002
27-Jan-2023
11:55



BEFORE
MASS
88
AREA
0
HEIGHT
0
26-Jan-2023
18:32
ALSHS
Server



AFTER
MASS
88
AREA
862672
HEIGHT
87864
27-Jan-2023
11:55



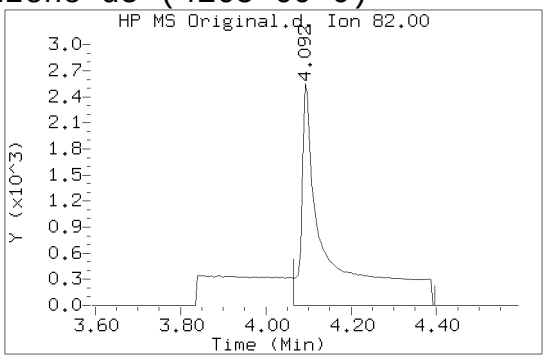
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\22.D
Inj Date : 26-JAN-2023 18:16
InstruID : SV6.i
LabSampID : 1 4-DX-0.1

Nitrobenzene-d5 (4165-60-0)

Reason Code:

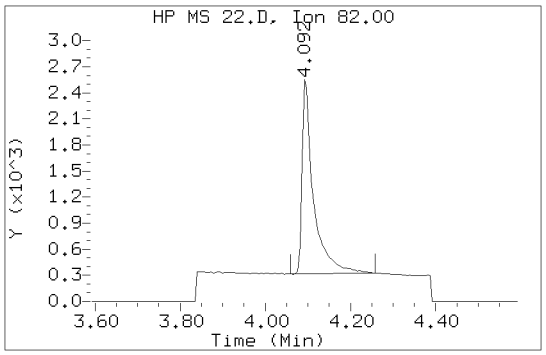
BEFORE

MASS
82
AREA
10301
HEIGHT
2551
26-Jan-2023
18:32
ALSHS
Server



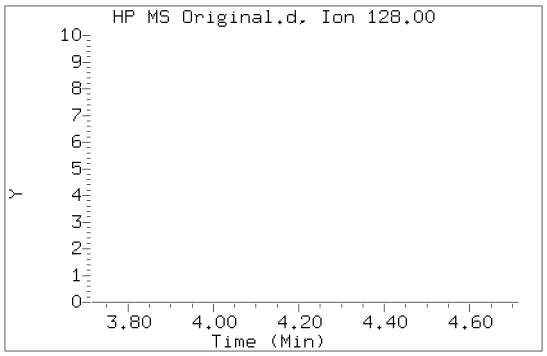
AFTER

MASS
82
AREA
4162
HEIGHT
2234
27-Jan-2023
11:55



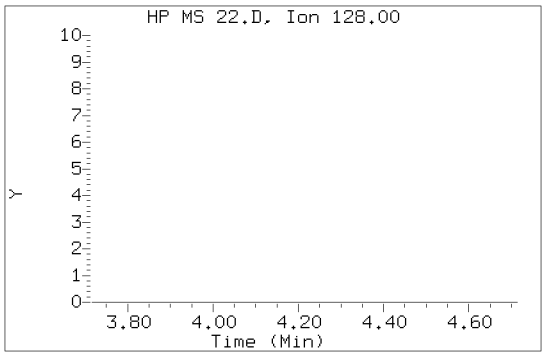
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jan-2023
18:32
ALSHS
Server



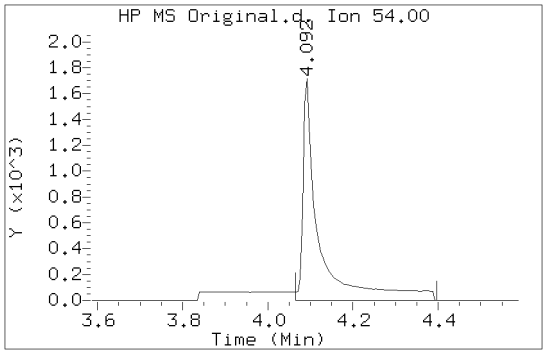
AFTER

MASS
128
AREA
0
HEIGHT
0
27-Jan-2023
11:55



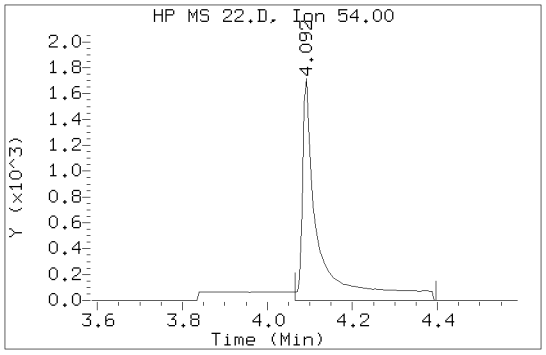
BEFORE

MASS
54
AREA
4483
HEIGHT
1715
26-Jan-2023
18:32
ALSHS
Server



AFTER

MASS
54
AREA
4483
HEIGHT
1715
27-Jan-2023
11:55

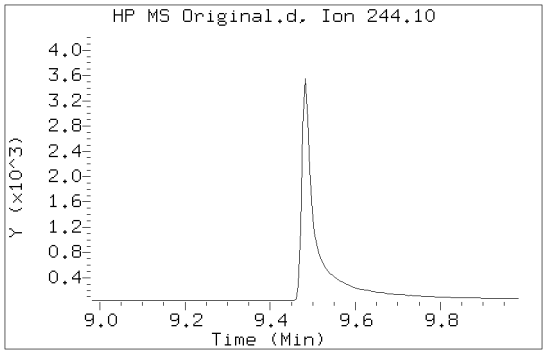


4-Terphenyl-d14 (1718-51-0)

Reason Code:

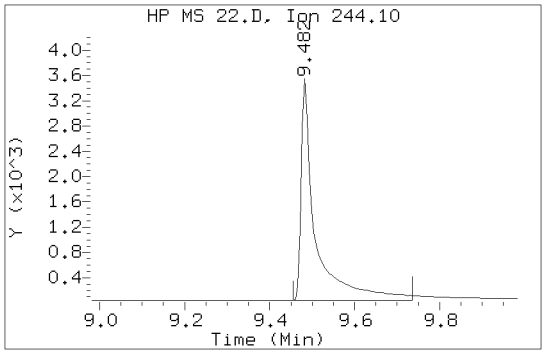
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
26-Jan-2023
18:32
ALSHS
Server



AFTER

MASS
244.1
AREA
8150
HEIGHT
3504
27-Jan-2023
11:55



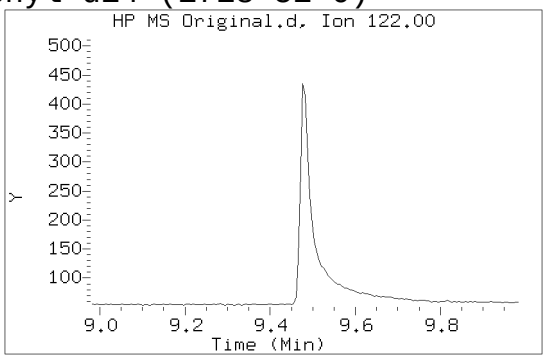
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\22.D
Inj Date : 26-JAN-2023 18:16
InstruID : SV6.i
LabSampID : 1 4-DX-0.1

4-Terphenyl-d14 (1718-51-0)

Reason Code:

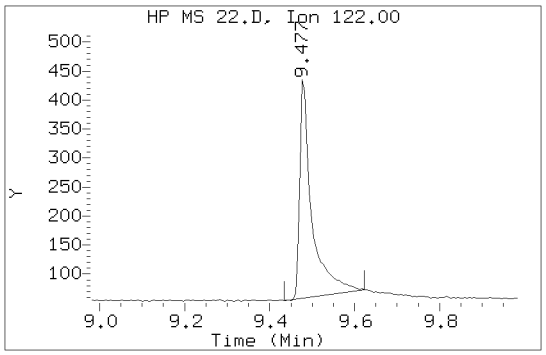
BEFORE

MASS
122
AREA
0
HEIGHT
0
26-Jan-2023
18:32
ALSHS
Server



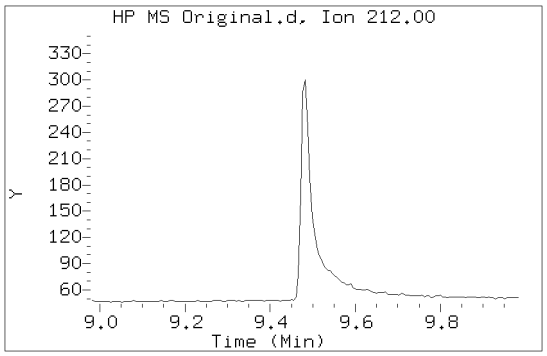
AFTER

MASS
122
AREA
740
HEIGHT
376
27-Jan-2023
11:55



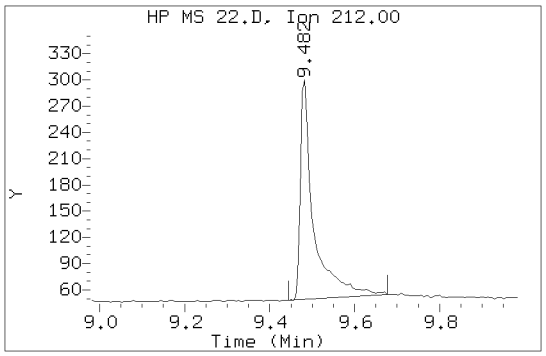
BEFORE

MASS
212
AREA
0
HEIGHT
0
26-Jan-2023
18:32
ALSHS
Server



AFTER

MASS
212
AREA
543
HEIGHT
250
27-Jan-2023
11:55

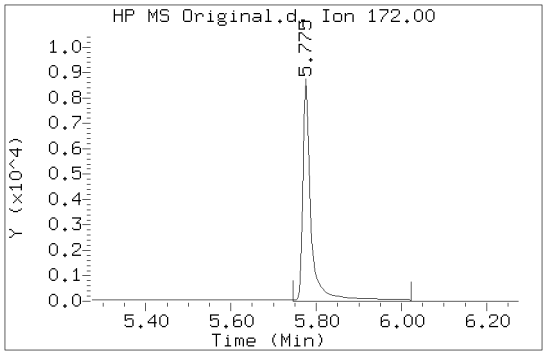


2-Fluorobiphenyl (321-60-8)

Reason Code:

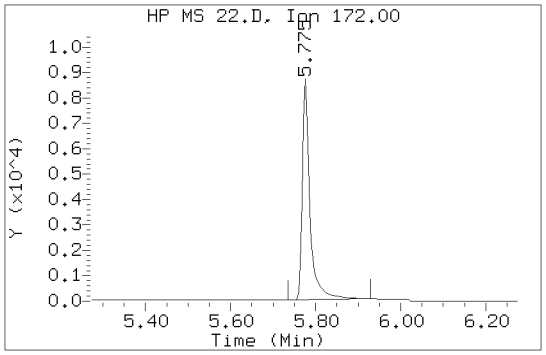
BEFORE

MASS
172
AREA
12027
HEIGHT
8749
26-Jan-2023
18:32
ALSHS
Server



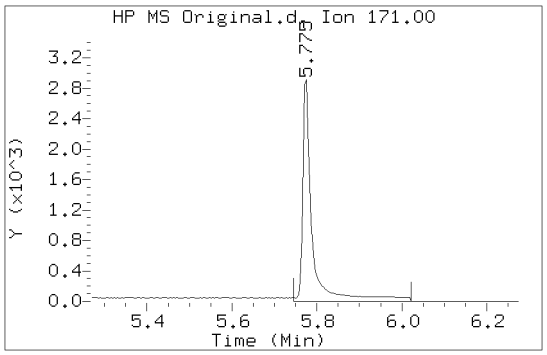
AFTER

MASS
172
AREA
10723
HEIGHT
8683
27-Jan-2023
11:55



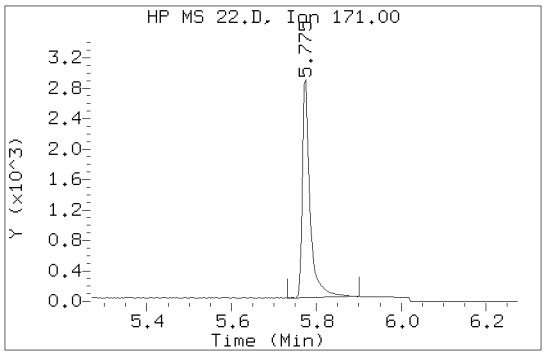
BEFORE

MASS
171
AREA
4538
HEIGHT
2913
26-Jan-2023
18:32
ALSHS
Server



AFTER

MASS
171
AREA
3612
HEIGHT
2862
27-Jan-2023
11:55



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230126.b\23.D
Lab Smp Id: 1 4-DX-0.15 Client Smp ID: 1 4-DX-0.15
Inj Date : 26-JAN-2023 18:34
Operator : LG Inst ID: SV6.i
Smp Info : 1 4-DX-0.15;1 4-DX-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230126.b\DXSIM.m
Meth Date : 27-Jan-2023 11:55 SV6.i Quant Type: ISTD
Cal Date : 26-JAN-2023 18:16 Cal File: 22.D
Als bottle: 22 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.619	3.619	(1.000)	4099	0.10000	(aQM)
* 45 Naphthalene-d8	136	4.746	4.746	(1.000)	14161	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.092	4.092	(0.862)	6376	0.15000	0.1560(AM)
* 86 Acenaphthene-d10	164	6.429	6.429	(1.000)	7780	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.775	5.775	(0.898)	15591	0.15000	0.1527(AM)
* 126 Phenanthrene-d10	188	7.884	7.884	(1.000)	15586	0.10000	
* 182 Chrysene-d12	240	10.752	10.752	(1.000)	4829	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.482	9.482	(0.882)	13832	0.15000	0.1483(M)
* 198 Perylene-d12	264	12.857	12.857	(1.000)	4032	0.10000	
1 1,4-Dioxane	58	1.836	1.836	(0.507)	2048	0.15000	0.1370(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

M - Compound response manually integrated.

01184696

Data File: \\NAHSTWS005\Target\chem\SV6.i\230126.b\23.D

Page 1

Date : 26-JAN-2023 18:34

Client ID: 1 4-DX-0.15

Instrument: SV6.i

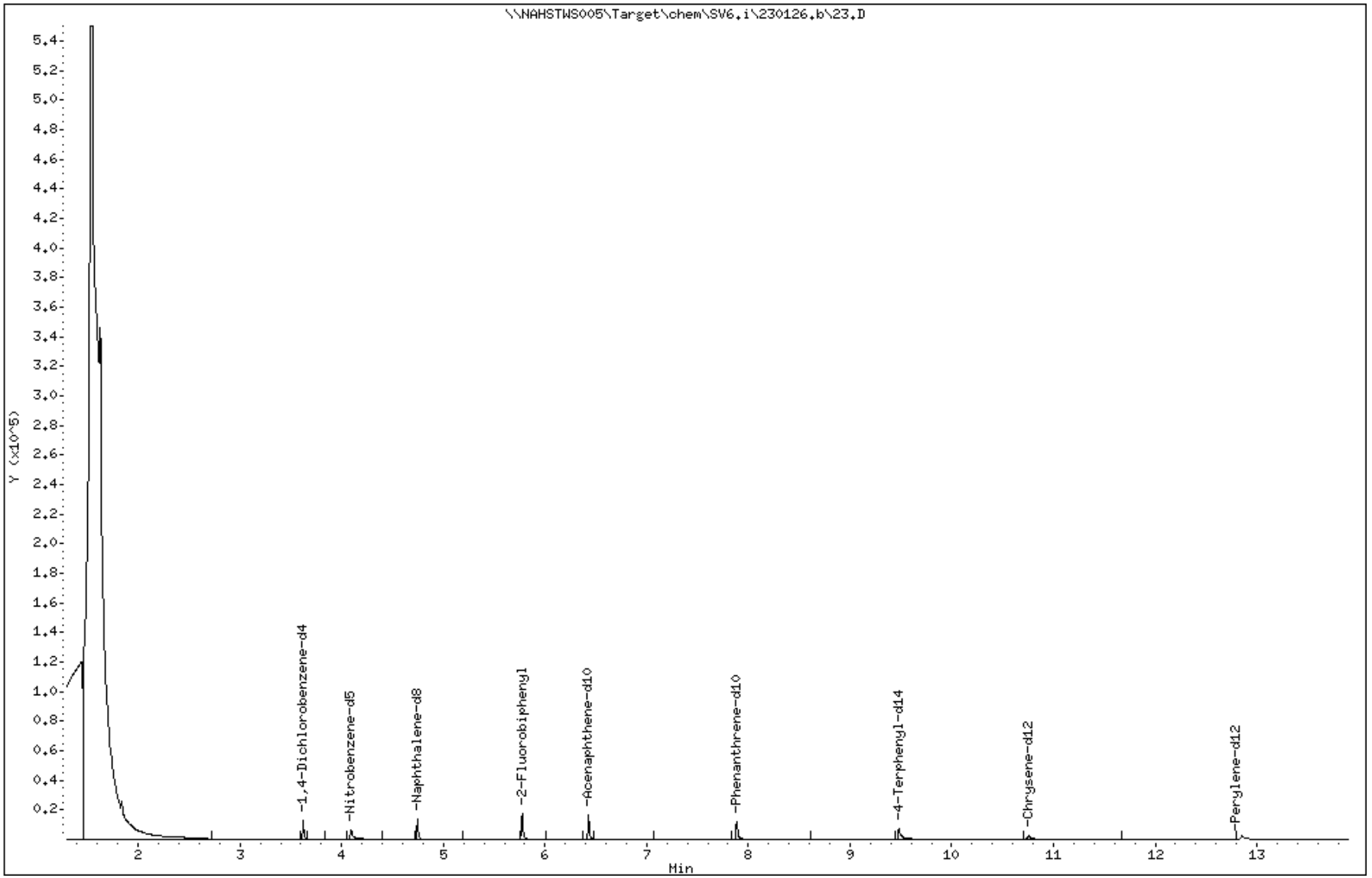
Sample Info: 1 4-DX-0.15;1 4-DX-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



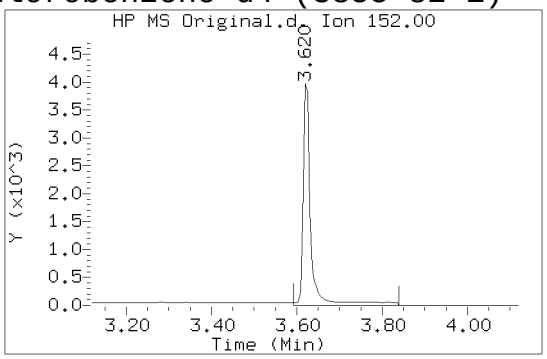
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\23.D
Inj Date : 26-JAN-2023 18:34
InstruID : SV6.i
LabSampID : 1 4-DX-0.15

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

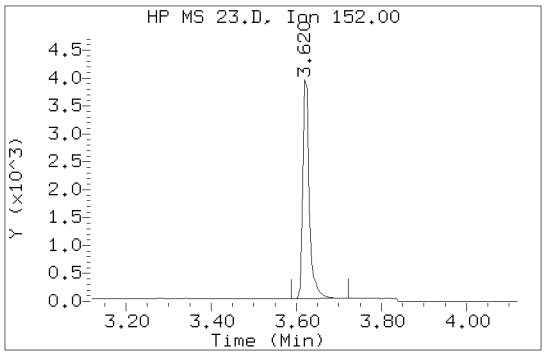
BEFORE

MASS
152
AREA
4880
HEIGHT
3972
26-Jan-2023
18:48
ALSHS
Server



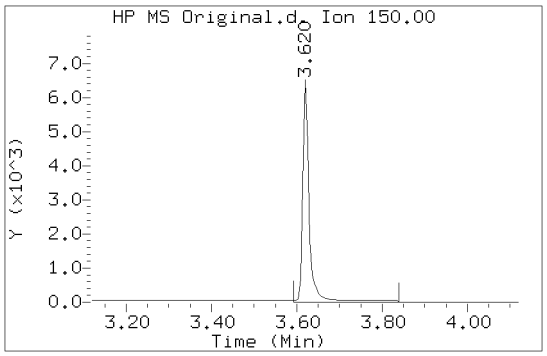
AFTER

MASS
152
AREA
4099
HEIGHT
3920
27-Jan-2023
11:55



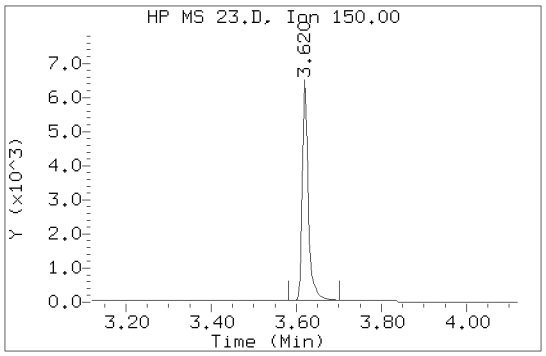
BEFORE

MASS
150
AREA
6931
HEIGHT
6517
26-Jan-2023
18:48
ALSHS
Server



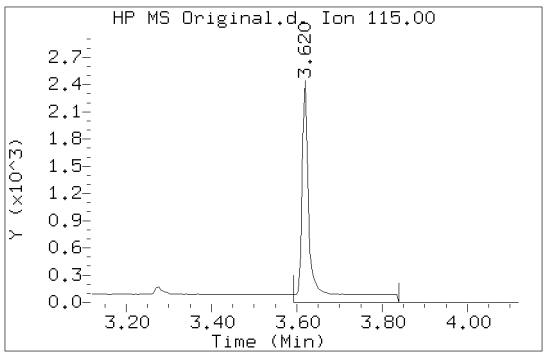
AFTER

MASS
150
AREA
6120
HEIGHT
6464
27-Jan-2023
11:55



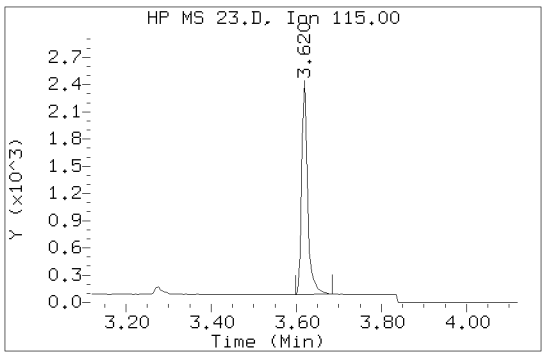
BEFORE

MASS
115
AREA
3520
HEIGHT
2443
26-Jan-2023
18:48
ALSHS
Server



AFTER

MASS
115
AREA
2245
HEIGHT
2356
27-Jan-2023
11:55

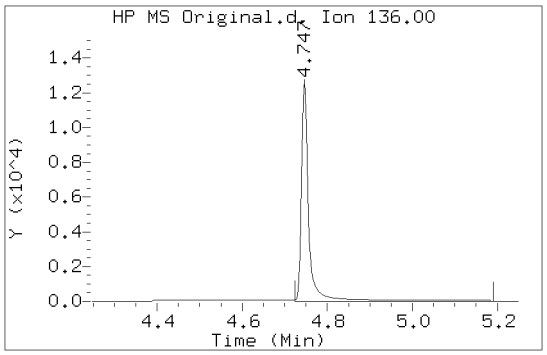


Naphthalene-d8 (1146-65-2)

Reason Code:

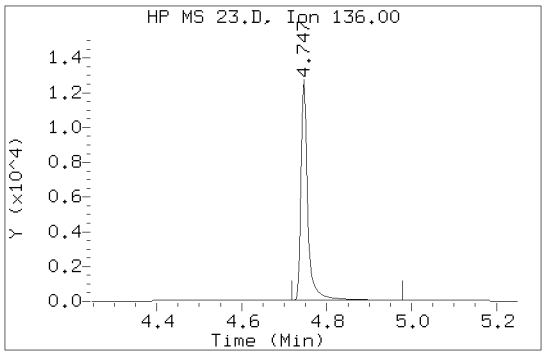
BEFORE

MASS
136
AREA
16171
HEIGHT
12754
26-Jan-2023
18:48
ALSHS
Server



AFTER

MASS
136
AREA
14161
HEIGHT
12688
27-Jan-2023
11:55



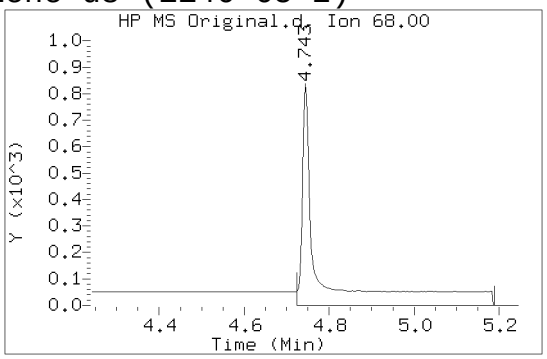
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\23.D
Inj Date : 26-JAN-2023 18:34
InstruID : SV6.i
LabSampID : 1 4-DX-0.15

Naphthalene-d8 (1146-65-2)

Reason Code:

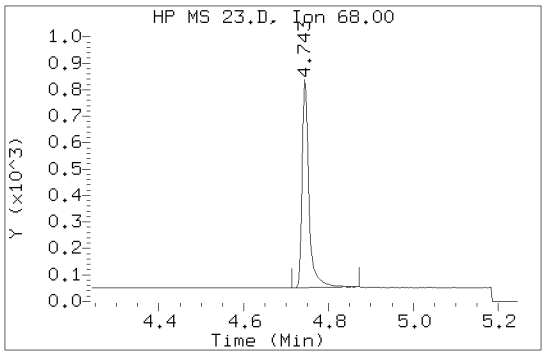
BEFORE

MASS
68
AREA
2330
HEIGHT
838
26-Jan-2023
18:48
ALSHS
Server



AFTER

MASS
68
AREA
874
HEIGHT
786
27-Jan-2023
11:55

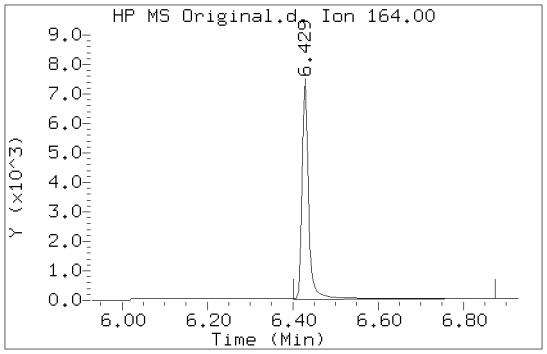


Acenaphthene-d10 (15067-26-2)

Reason Code:

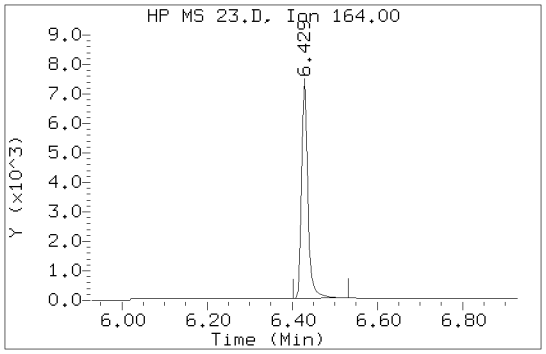
BEFORE

MASS
164
AREA
8455
HEIGHT
7488
26-Jan-2023
18:48
ALSHS
Server



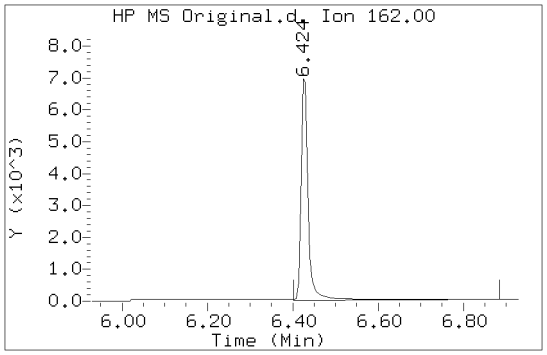
AFTER

MASS
164
AREA
7780
HEIGHT
7452
27-Jan-2023
11:55



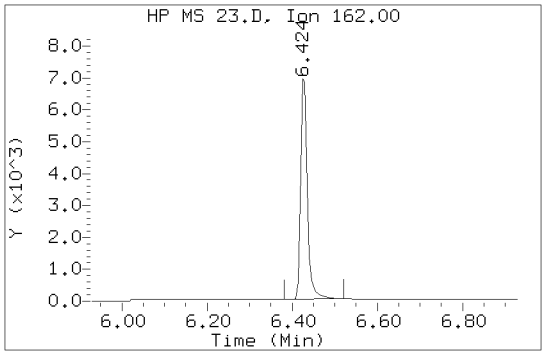
BEFORE

MASS
162
AREA
8373
HEIGHT
6943
26-Jan-2023
18:48
ALSHS
Server



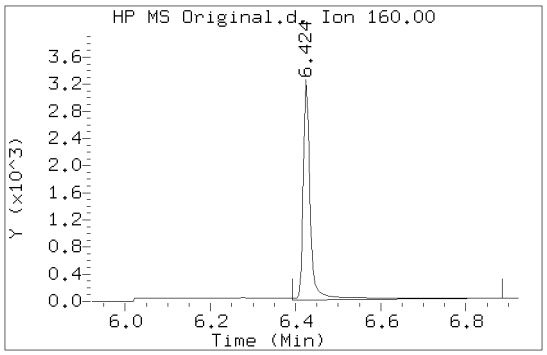
AFTER

MASS
162
AREA
7710
HEIGHT
6908
27-Jan-2023
11:55



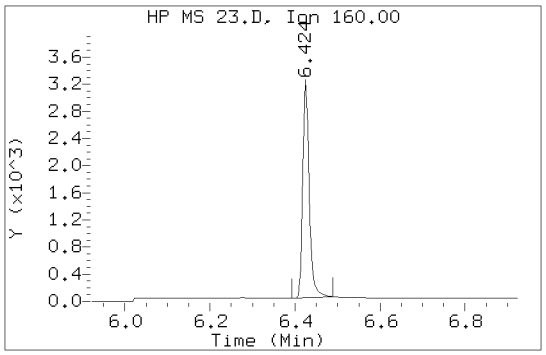
BEFORE

MASS
160
AREA
3831
HEIGHT
3245
26-Jan-2023
18:48
ALSHS
Server



AFTER

MASS
160
AREA
3286
HEIGHT
3212
27-Jan-2023
11:55



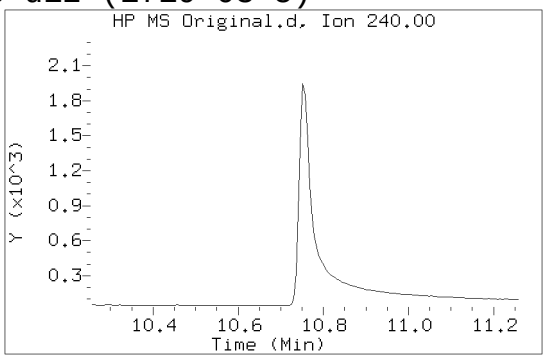
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\23.D
Inj Date : 26-JAN-2023 18:34
InstruID : SV6.i
LabSampID : 1 4-DX-0.15

Chrysene-d12 (1719-03-5)

Reason Code:

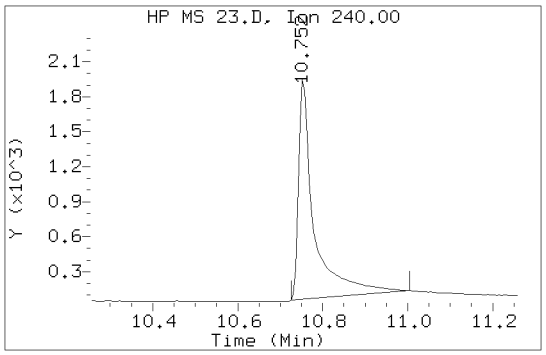
BEFORE

MASS
240
AREA
0
HEIGHT
0
26-Jan-2023
18:48
ALSHS
Server



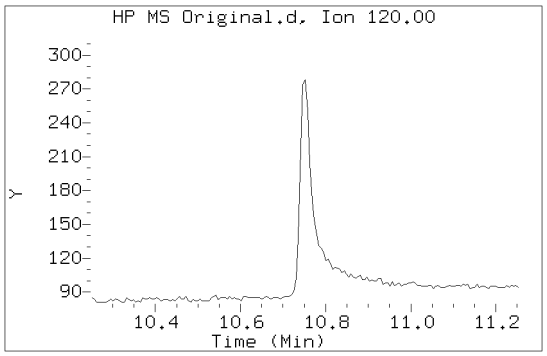
AFTER

MASS
240
AREA
4829
HEIGHT
1883
27-Jan-2023
11:55



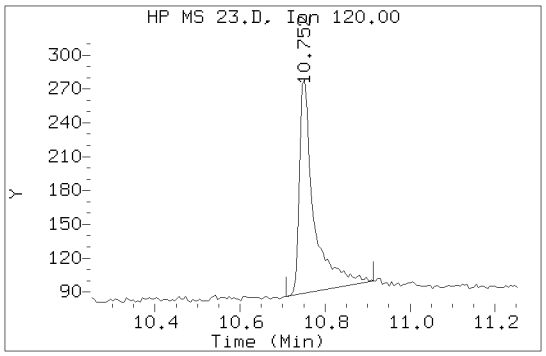
BEFORE

MASS
120
AREA
0
HEIGHT
0
26-Jan-2023
18:48
ALSHS
Server



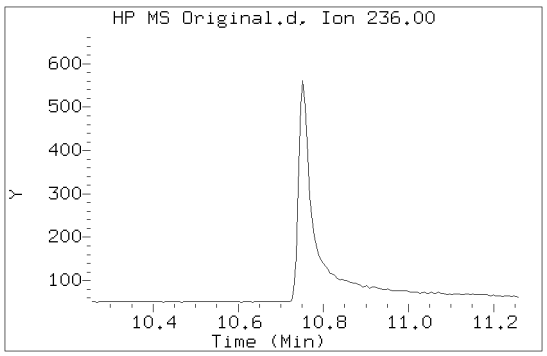
AFTER

MASS
120
AREA
446
HEIGHT
189
27-Jan-2023
11:55



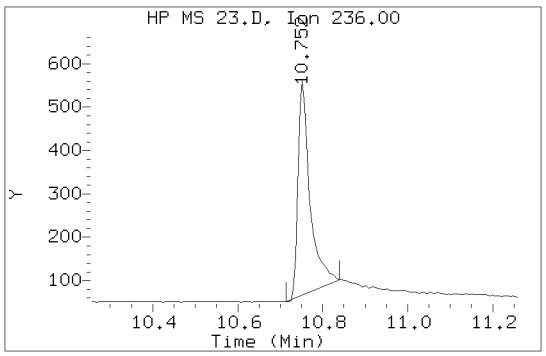
BEFORE

MASS
236
AREA
0
HEIGHT
0
26-Jan-2023
18:48
ALSHS
Server



AFTER

MASS
236
AREA
965
HEIGHT
494
27-Jan-2023
11:55

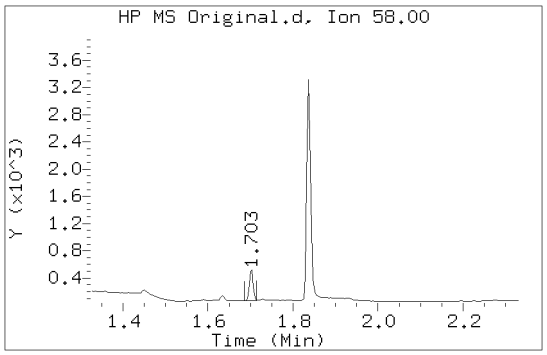


1,4-Dioxane ()

Reason Code:

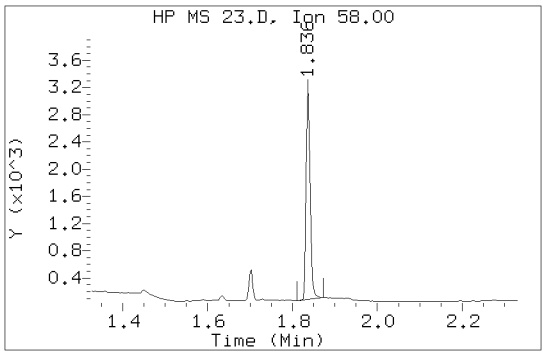
BEFORE

MASS
58
AREA
291
HEIGHT
448
26-Jan-2023
18:48
ALSHS
Server



AFTER

MASS
58
AREA
2048
HEIGHT
3226
27-Jan-2023
11:55



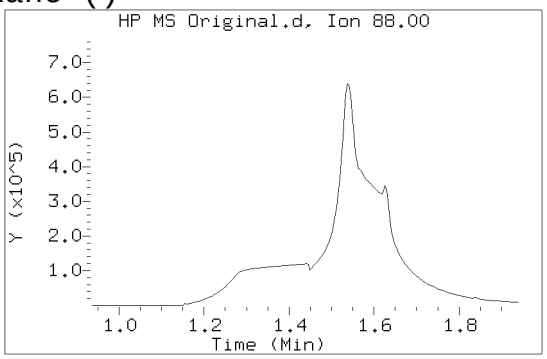
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\23.D
Inj Date : 26-JAN-2023 18:34
InstruID : SV6.i
LabSampID : 1 4-DX-0.15

1,4-Dioxane ()

Reason Code:

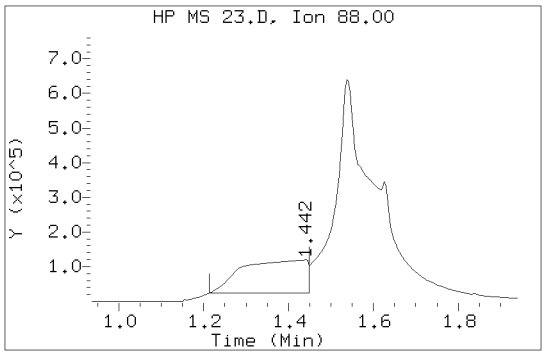
BEFORE

MASS
88
AREA
0
HEIGHT
0
26-Jan-2023
18:48
ALSHS
Server



AFTER

MASS
88
AREA
1010072
HEIGHT
96120
27-Jan-2023
11:55

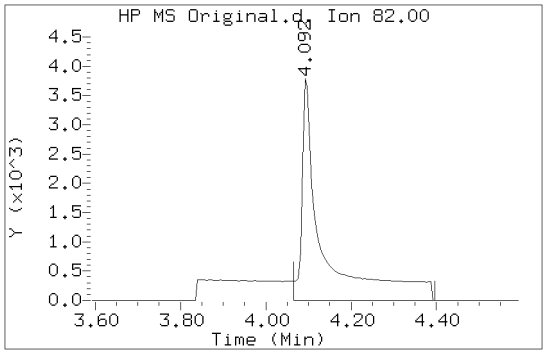


Nitrobenzene-d5 (4165-60-0)

Reason Code:

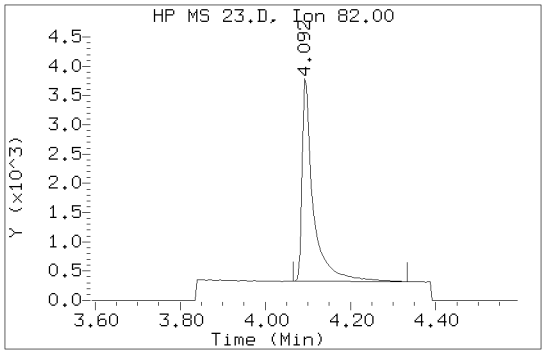
BEFORE

MASS
82
AREA
12644
HEIGHT
3788
26-Jan-2023
18:48
ALSHS
Server



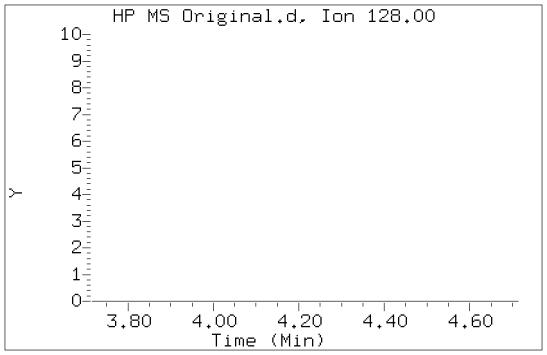
AFTER

MASS
82
AREA
6376
HEIGHT
3464
27-Jan-2023
11:55



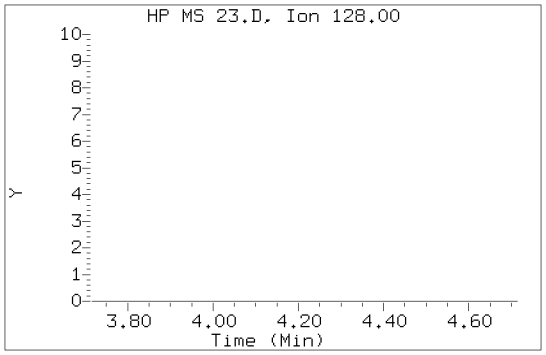
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jan-2023
18:48
ALSHS
Server



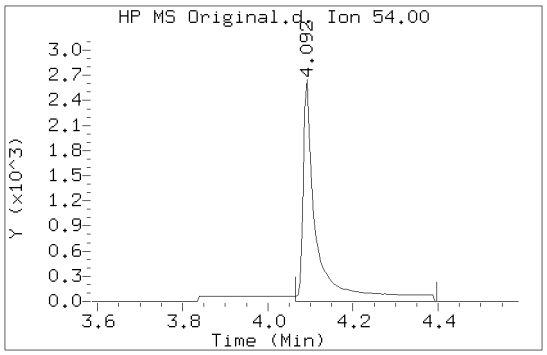
AFTER

MASS
128
AREA
0
HEIGHT
0
27-Jan-2023
11:55



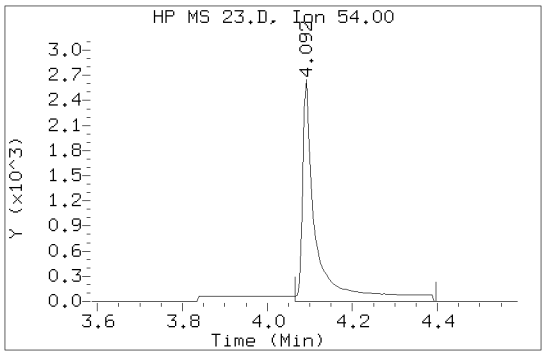
BEFORE

MASS
54
AREA
5958
HEIGHT
2647
26-Jan-2023
18:48
ALSHS
Server



AFTER

MASS
54
AREA
5958
HEIGHT
2647
27-Jan-2023
11:55



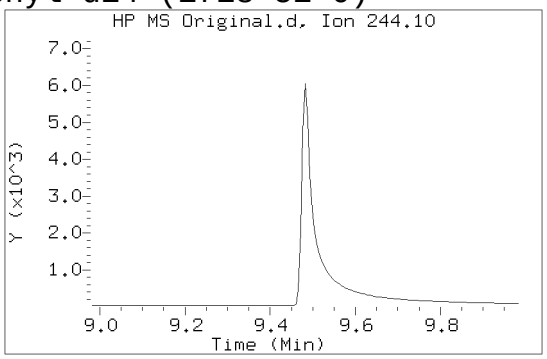
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\23.D
Inj Date : 26-JAN-2023 18:34
InstruID : SV6.i
LabSampID : 1 4-DX-0.15

4-Terphenyl-d14 (1718-51-0)

Reason Code:

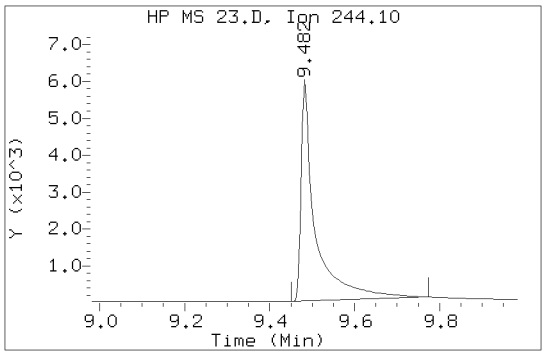
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
26-Jan-2023
18:48
ALSHS
Server



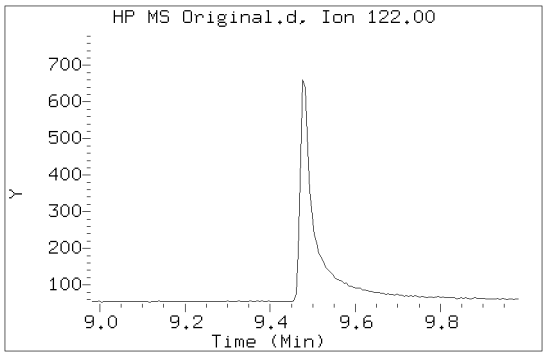
AFTER

MASS
244.1
AREA
13832
HEIGHT
5991
27-Jan-2023
11:55



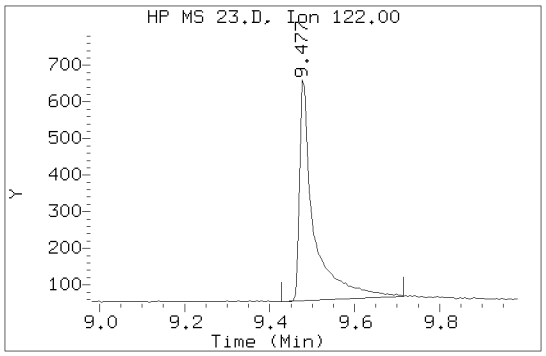
BEFORE

MASS
122
AREA
0
HEIGHT
0
26-Jan-2023
18:48
ALSHS
Server



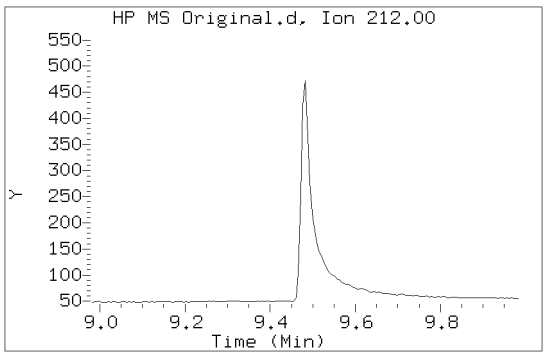
AFTER

MASS
122
AREA
1402
HEIGHT
602
27-Jan-2023
11:55



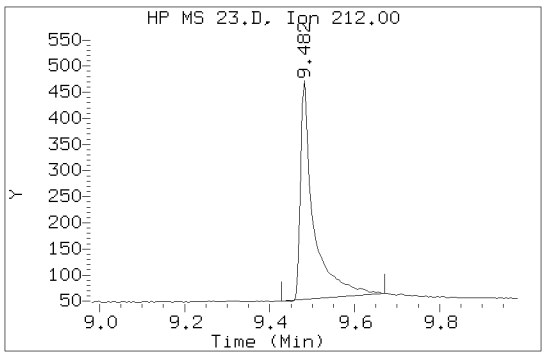
BEFORE

MASS
212
AREA
0
HEIGHT
0
26-Jan-2023
18:48
ALSHS
Server



AFTER

MASS
212
AREA
891
HEIGHT
418
27-Jan-2023
11:55

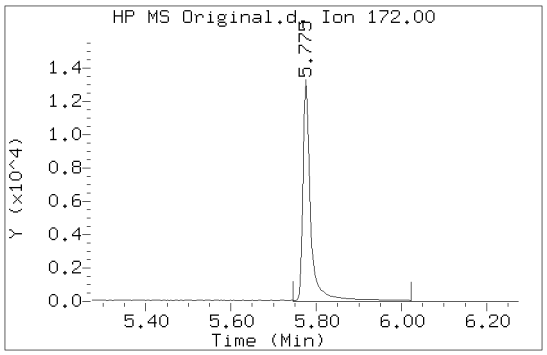


2-Fluorobiphenyl (321-60-8)

Reason Code:

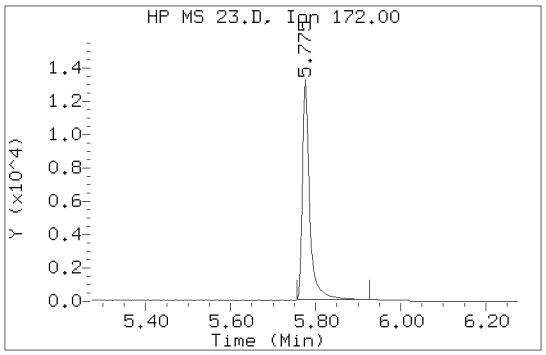
BEFORE

MASS
172
AREA
17229
HEIGHT
13310
26-Jan-2023
18:48
ALSHS
Server



AFTER

MASS
172
AREA
15591
HEIGHT
13200
27-Jan-2023
11:55



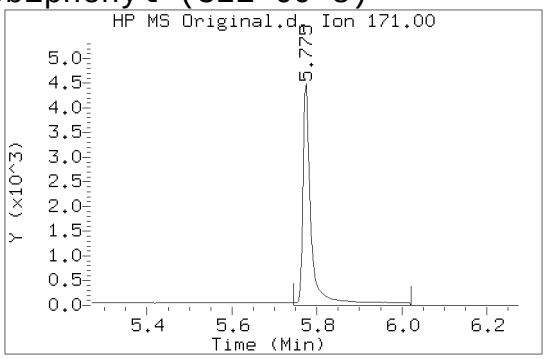
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\23.D
Inj Date : 26-JAN-2023 18:34
InstruID : SV6.i
LabSampID : 1 4-DX-0.15

2-Fluorobiphenyl (321-60-8)

Reason Code:

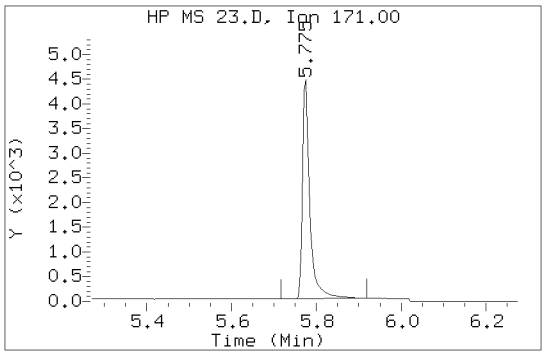
BEFORE

MASS
171
AREA
6311
HEIGHT
4491
26-Jan-2023
18:48
ALSHS
Server



AFTER

MASS
171
AREA
5369
HEIGHT
4439
27-Jan-2023
11:55



Data File: \\NAHSTWS005\Target\chem\SV6.i\230126.b\24.D Page 1
Report Date: 27-Jan-2023 11:55

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230126.b\24.D
Lab Smp Id: 1 4-DX-0.2 Client Smp ID: 1 4-DX-0.2
Inj Date : 26-JAN-2023 18:51
Operator : LG Inst ID: SV6.i
Smp Info : 1 4-DX-0.2;1 4-DX-0.2
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230126.b\DXSIM.m
Meth Date : 27-Jan-2023 11:55 SV6.i Quant Type: ISTD
Cal Date : 26-JAN-2023 18:34 Cal File: 23.D
Als bottle: 23 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.625	3.625	(1.000)	5356	0.10000	(aM)
* 45 Naphthalene-d8	136	4.747	4.747	(1.000)	18077	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.092	4.092	(0.862)	11045	0.20000	0.2118(AM)
* 86 Acenaphthene-d10	164	6.429	6.429	(1.000)	10240	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.775	5.775	(0.898)	27466	0.20000	0.2044(AM)
* 126 Phenanthrene-d10	188	7.885	7.885	(1.000)	19448	0.10000	(M)
* 182 Chrysene-d12	240	10.752	10.752	(1.000)	5776	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.482	9.482	(0.882)	24628	0.20000	0.2089(AM)
* 198 Perylene-d12	264	12.857	12.857	(1.000)	5116	0.10000	
1 1,4-Dioxane	58	1.854	1.854	(0.512)	3683	0.20000	0.1885(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

M - Compound response manually integrated.

01184705

Data File: \\NAHSTWS005\Target\chem\SV6.i\230126.b\24.D

Date : 26-JAN-2023 18:51

Client ID: 1 4-DX-0.2

Instrument: SV6.i

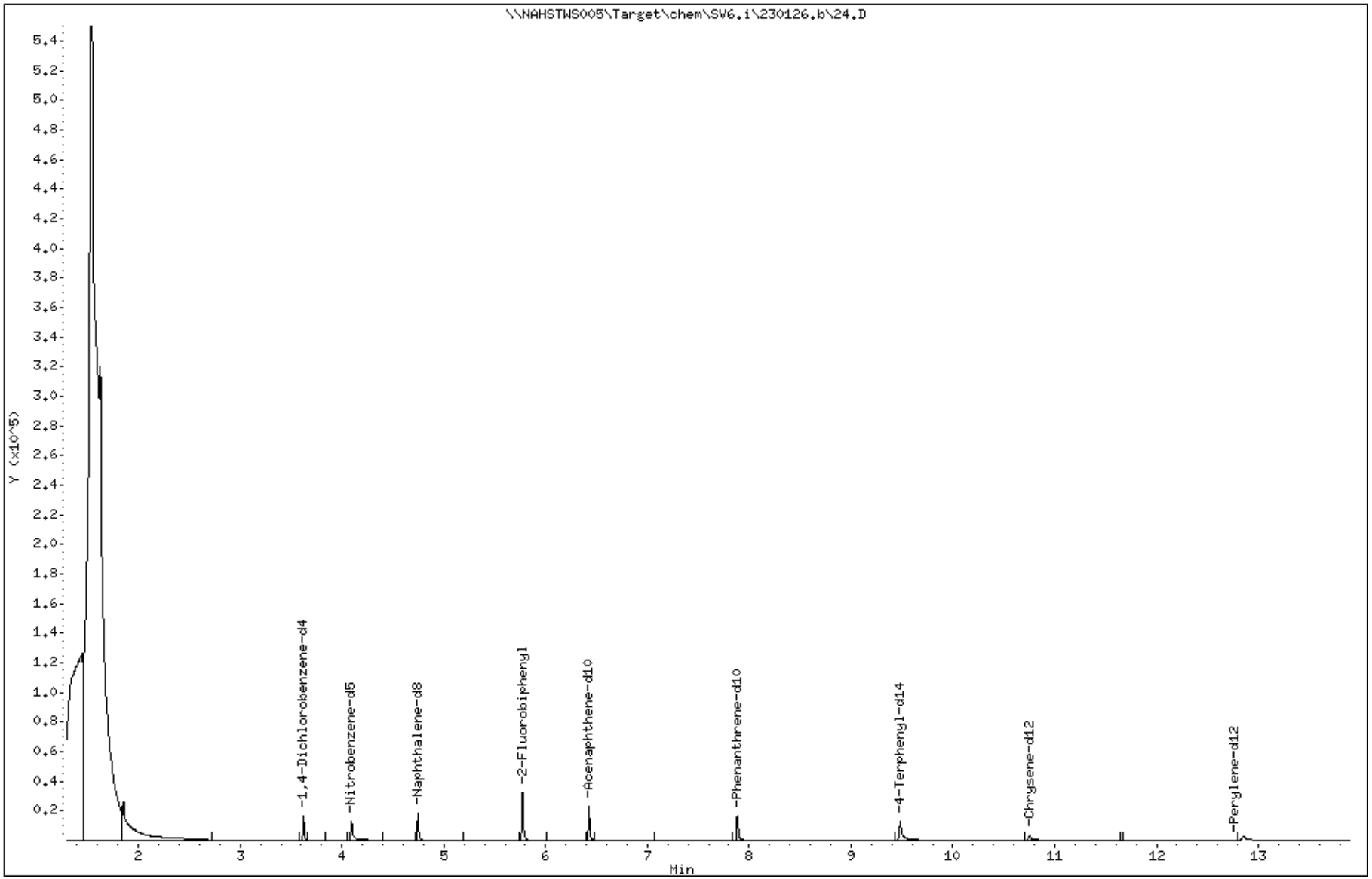
Sample Info: 1 4-DX-0.2;1 4-DX-0.2

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



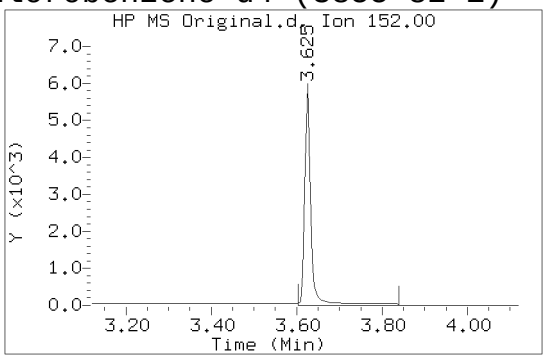
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\24.D
Inj Date : 26-JAN-2023 18:51
InstruID : SV6.i
LabSampID : 1 4-DX-0.2

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

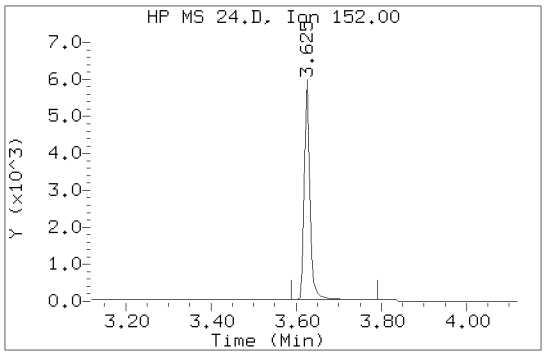
BEFORE

MASS
152
AREA
6088
HEIGHT
5993
26-Jan-2023
19:06
ALSHS
Server



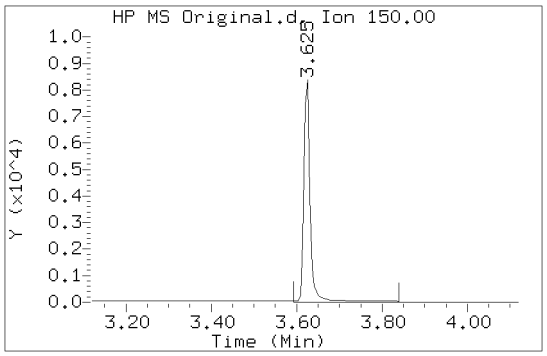
AFTER

MASS
152
AREA
5356
HEIGHT
5942
27-Jan-2023
11:55



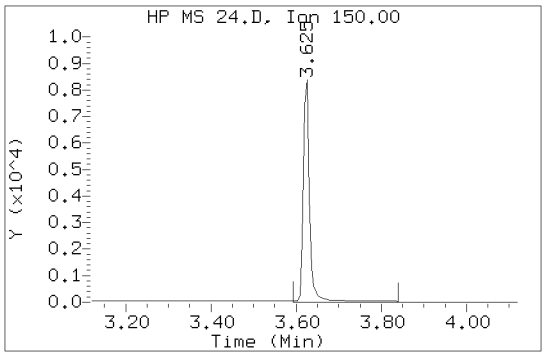
BEFORE

MASS
150
AREA
8795
HEIGHT
8381
26-Jan-2023
19:06
ALSHS
Server



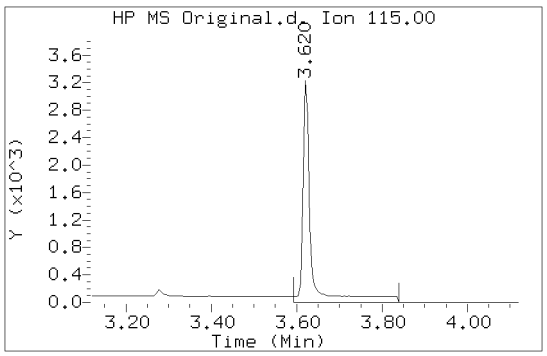
AFTER

MASS
150
AREA
8795
HEIGHT
8381
27-Jan-2023
11:55



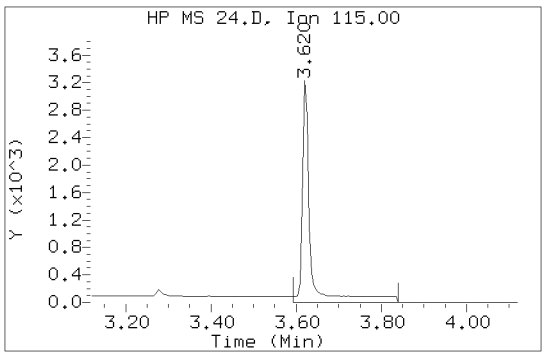
BEFORE

MASS
115
AREA
4214
HEIGHT
3230
26-Jan-2023
19:06
ALSHS
Server



AFTER

MASS
115
AREA
4214
HEIGHT
3230
27-Jan-2023
11:55

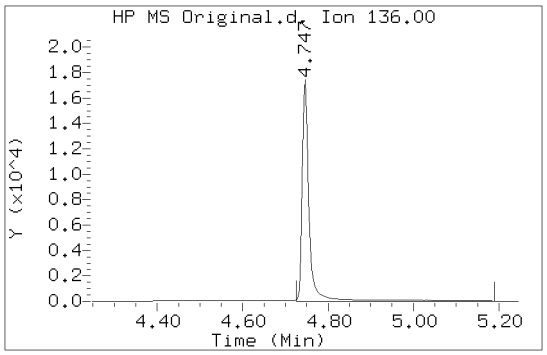


Naphthalene-d8 (1146-65-2)

Reason Code:

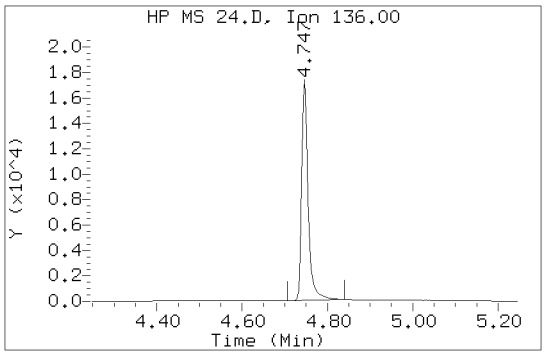
BEFORE

MASS
136
AREA
20575
HEIGHT
17440
26-Jan-2023
19:06
ALSHS
Server



AFTER

MASS
136
AREA
18077
HEIGHT
17352
27-Jan-2023
11:55



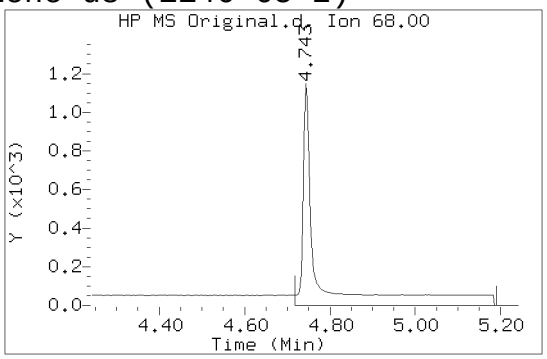
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\24.D
Inj Date : 26-JAN-2023 18:51
InstruID : SV6.i
LabSampID : 1 4-DX-0.2

Naphthalene-d8 (1146-65-2)

Reason Code:

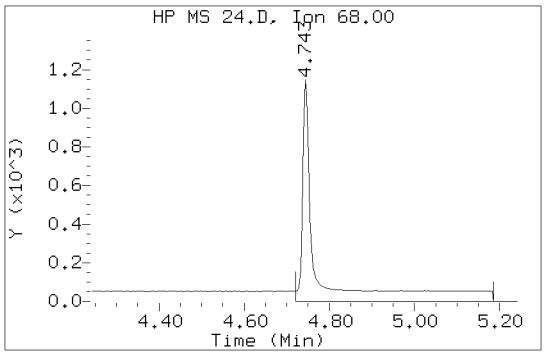
BEFORE

MASS
68
AREA
2661
HEIGHT
1148
26-Jan-2023
19:06
ALSHS
Server



AFTER

MASS
68
AREA
2649
HEIGHT
1148
27-Jan-2023
11:55

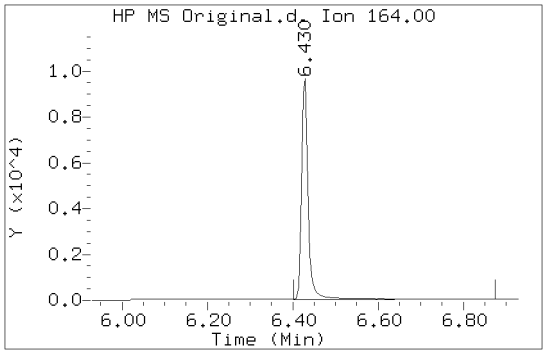


Acenaphthene-d10 (15067-26-2)

Reason Code:

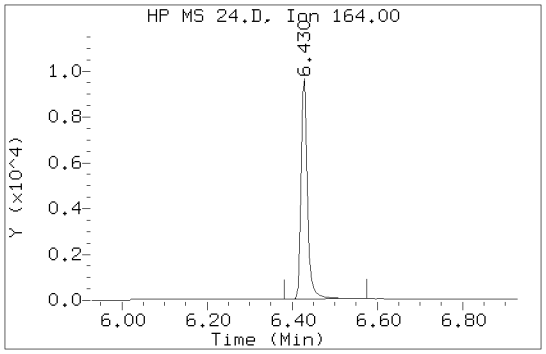
BEFORE

MASS
164
AREA
10835
HEIGHT
9644
26-Jan-2023
19:06
ALSHS
Server



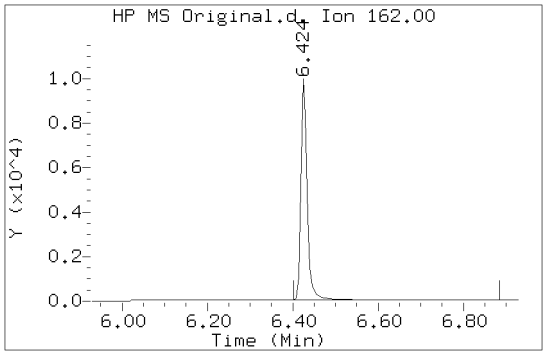
AFTER

MASS
164
AREA
10240
HEIGHT
9610
27-Jan-2023
11:55



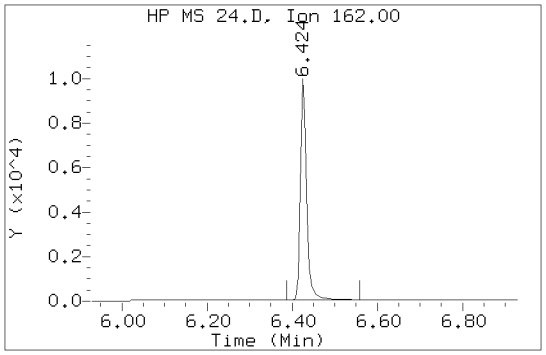
BEFORE

MASS
162
AREA
10270
HEIGHT
9933
26-Jan-2023
19:06
ALSHS
Server



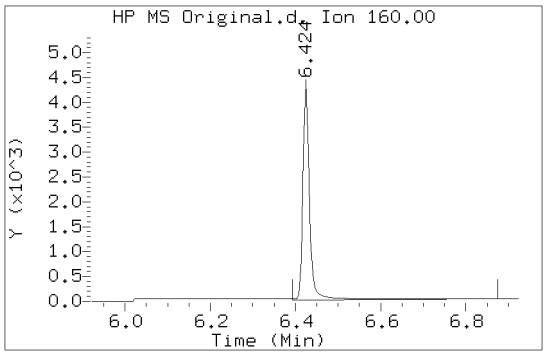
AFTER

MASS
162
AREA
10161
HEIGHT
9932
27-Jan-2023
11:55



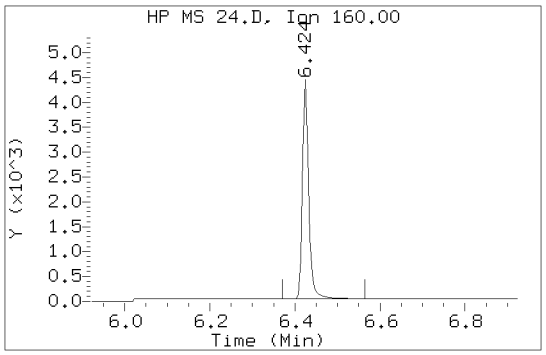
BEFORE

MASS
160
AREA
4853
HEIGHT
4435
26-Jan-2023
19:06
ALSHS
Server



AFTER

MASS
160
AREA
4390
HEIGHT
4408
27-Jan-2023
11:55



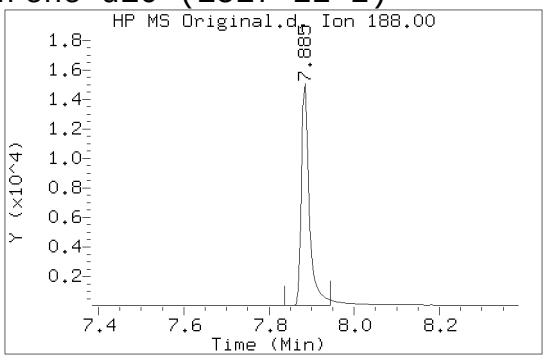
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\24.D
Inj Date : 26-JAN-2023 18:51
InstruID : SV6.i
LabSampID : 1 4-DX-0.2

Phenanthrene-d10 (1517-22-2)

Reason Code:

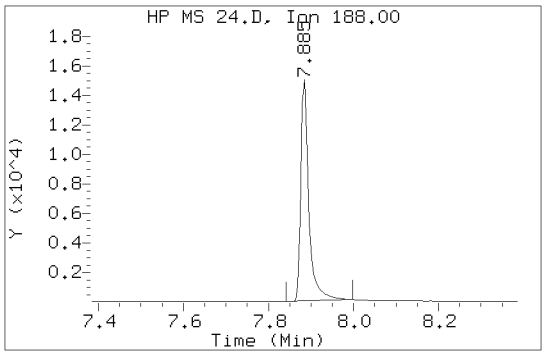
BEFORE

MASS
188
AREA
19386
HEIGHT
15029
26-Jan-2023
19:06
ALSHS
Server



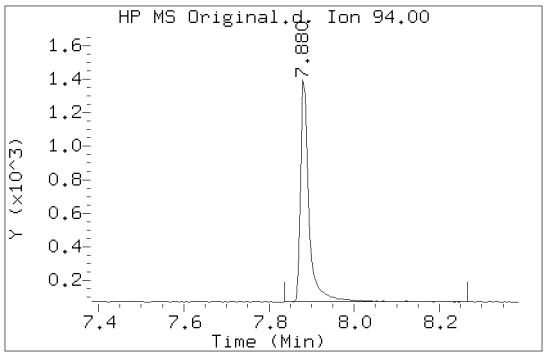
AFTER

MASS
188
AREA
19448
HEIGHT
14998
27-Jan-2023
11:55



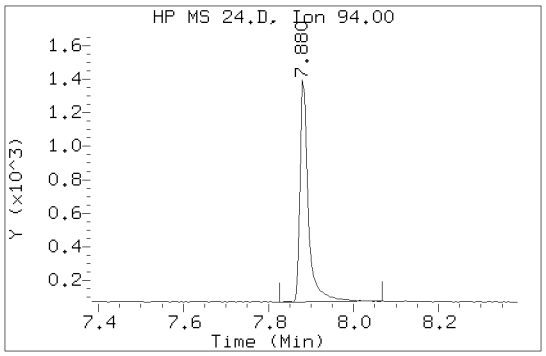
BEFORE

MASS
94
AREA
1839
HEIGHT
1327
26-Jan-2023
19:06
ALSHS
Server



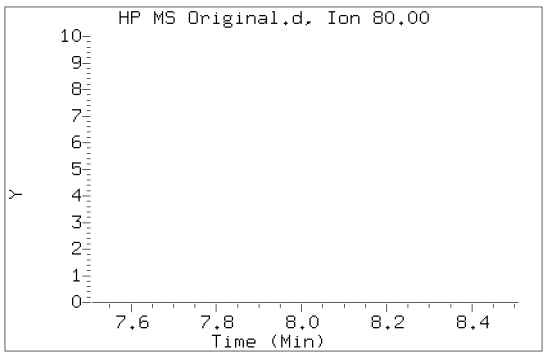
AFTER

MASS
94
AREA
1800
HEIGHT
1326
27-Jan-2023
11:55



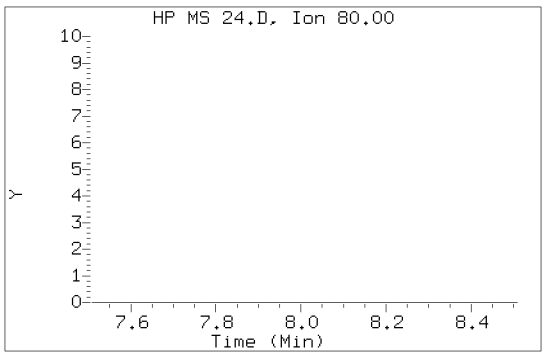
BEFORE

MASS
80
AREA
0
HEIGHT
0
26-Jan-2023
19:06
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
27-Jan-2023
11:55

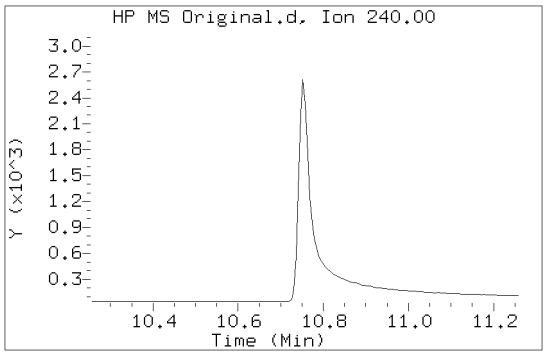


Chrysene-d12 (1719-03-5)

Reason Code:

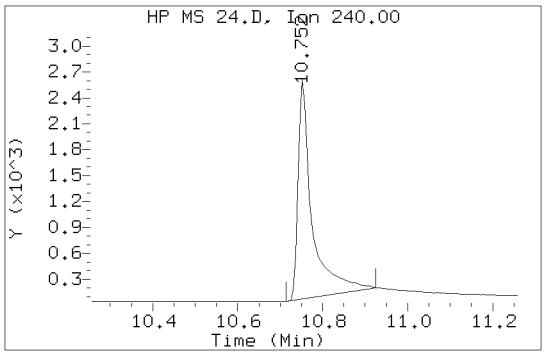
BEFORE

MASS
240
AREA
0
HEIGHT
0
26-Jan-2023
19:06
ALSHS
Server



AFTER

MASS
240
AREA
5776
HEIGHT
2533
27-Jan-2023
11:55

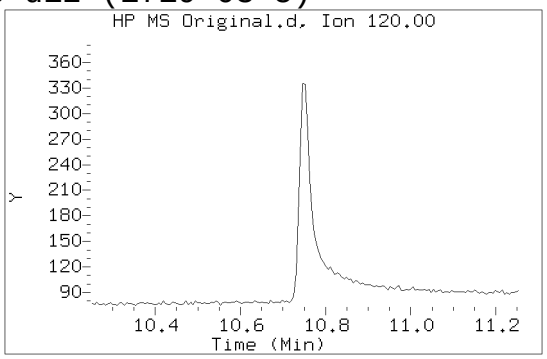


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\24.D
Inj Date : 26-JAN-2023 18:51
InstruID : SV6.i
LabSampID : 1 4-DX-0.2

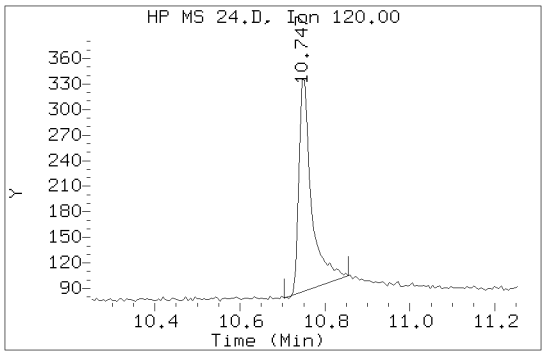
Chrysene-d12 (1719-03-5)

Reason Code:

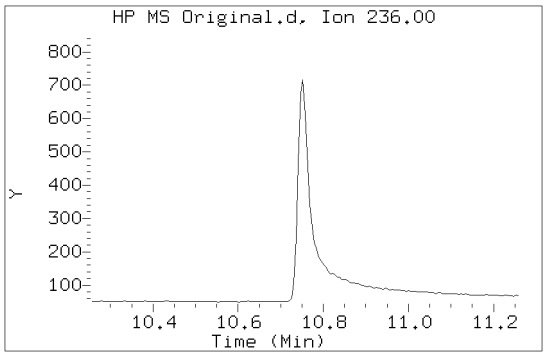
BEFORE
MASS
120
AREA
0
HEIGHT
0
26-Jan-2023
19:06
ALSHS
Server



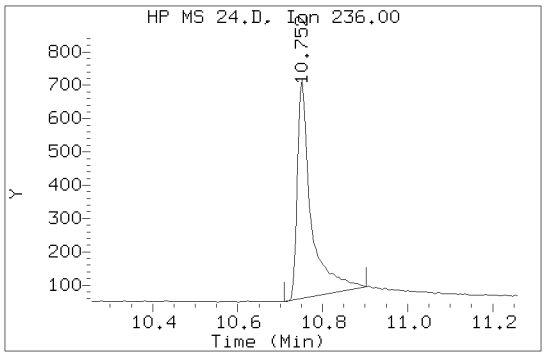
AFTER
MASS
120
AREA
511
HEIGHT
248
27-Jan-2023
11:55



BEFORE
MASS
236
AREA
0
HEIGHT
0
26-Jan-2023
19:06
ALSHS
Server



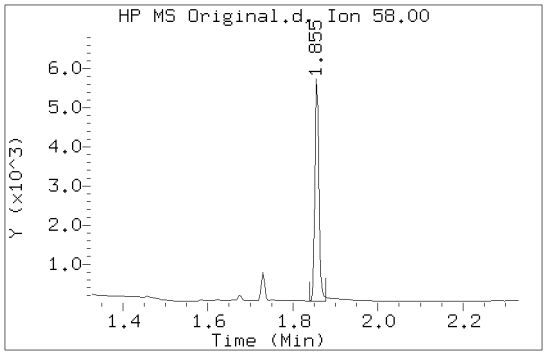
AFTER
MASS
236
AREA
1471
HEIGHT
655
27-Jan-2023
11:55



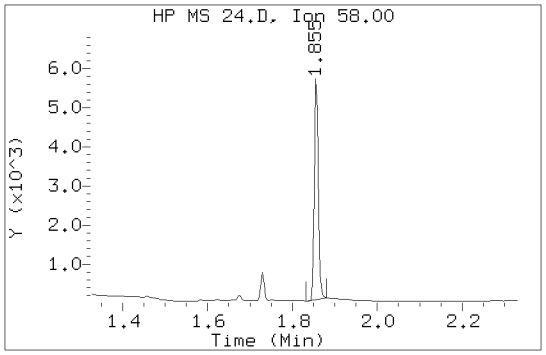
1,4-Dioxane ()

Reason Code:

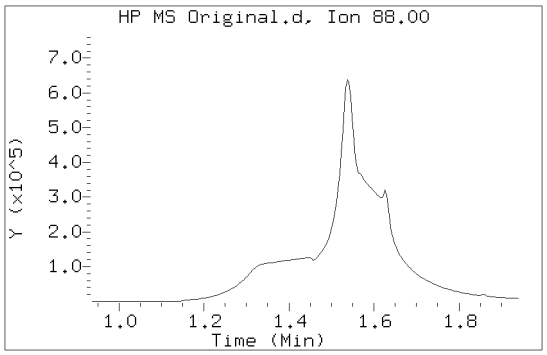
BEFORE
MASS
58
AREA
3790
HEIGHT
5675
26-Jan-2023
19:06
ALSHS
Server



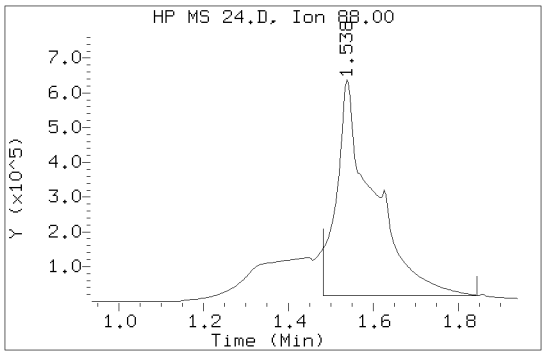
AFTER
MASS
58
AREA
3683
HEIGHT
5638
27-Jan-2023
11:55



BEFORE
MASS
88
AREA
0
HEIGHT
0
26-Jan-2023
19:06
ALSHS
Server



AFTER
MASS
88
AREA
3747570
HEIGHT
620736
27-Jan-2023
11:55



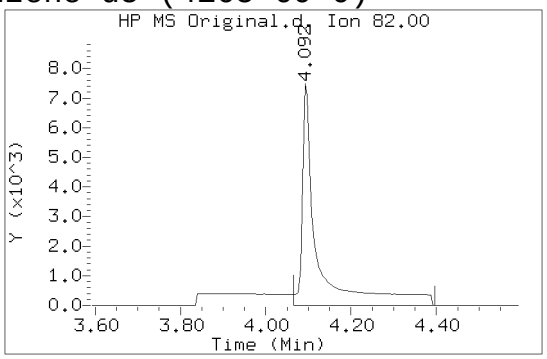
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\24.D
Inj Date : 26-JAN-2023 18:51
InstruID : SV6.i
LabSampID : 1 4-DX-0.2

Nitrobenzene-d5 (4165-60-0)

Reason Code:

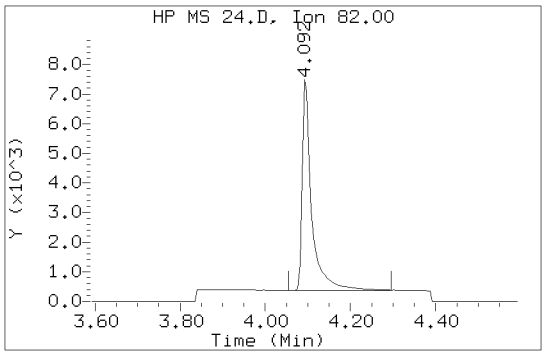
BEFORE

MASS
82
AREA
18228
HEIGHT
7484
26-Jan-2023
19:06
ALSHS
Server



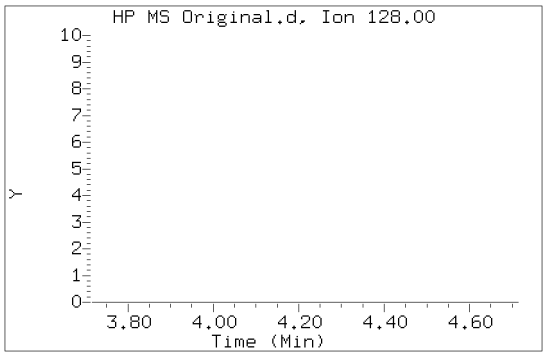
AFTER

MASS
82
AREA
11045
HEIGHT
7114
27-Jan-2023
11:55



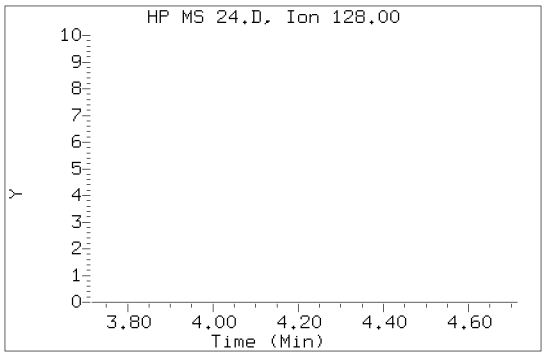
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jan-2023
19:06
ALSHS
Server



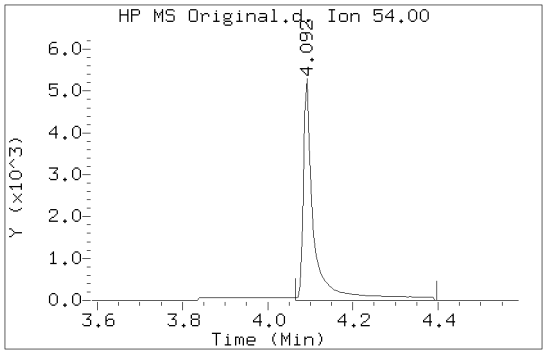
AFTER

MASS
128
AREA
0
HEIGHT
0
27-Jan-2023
11:55



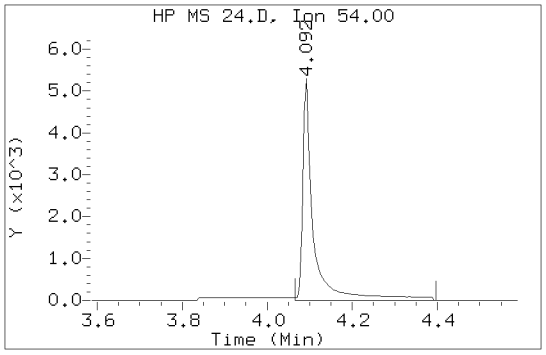
BEFORE

MASS
54
AREA
9366
HEIGHT
5295
26-Jan-2023
19:06
ALSHS
Server



AFTER

MASS
54
AREA
9366
HEIGHT
5295
27-Jan-2023
11:55

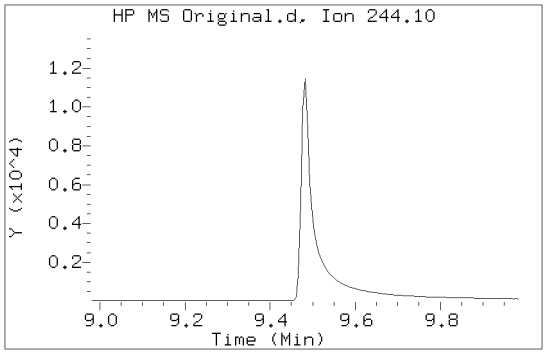


4-Terphenyl-d14 (1718-51-0)

Reason Code:

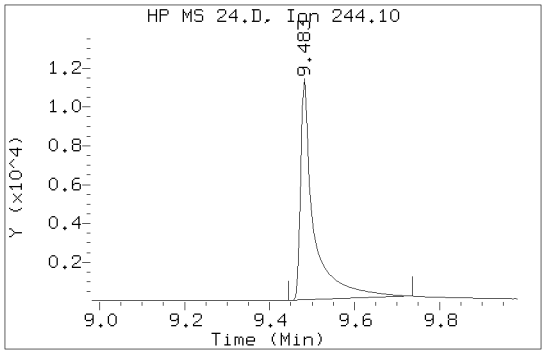
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
26-Jan-2023
19:06
ALSHS
Server



AFTER

MASS
244.1
AREA
24628
HEIGHT
11383
27-Jan-2023
11:55



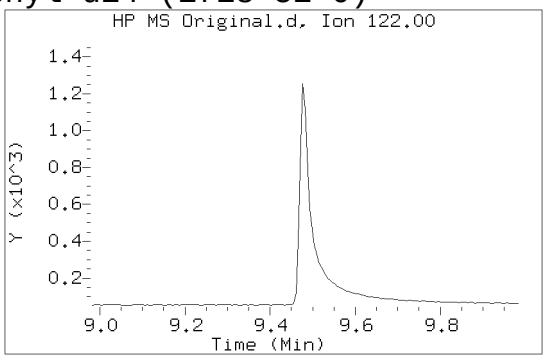
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\24.D
Inj Date : 26-JAN-2023 18:51
InstruID : SV6.i
LabSampID : 1 4-DX-0.2

4-Terphenyl-d14 (1718-51-0)

Reason Code:

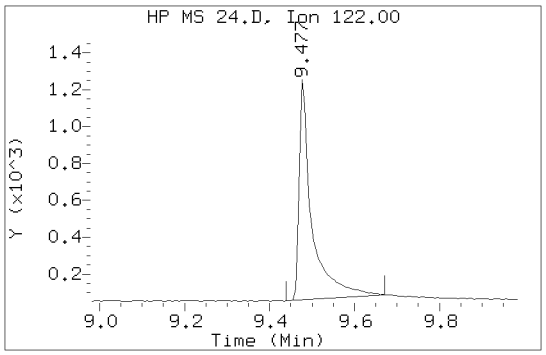
BEFORE

MASS
122
AREA
0
HEIGHT
0
26-Jan-2023
19:06
ALSHS
Server



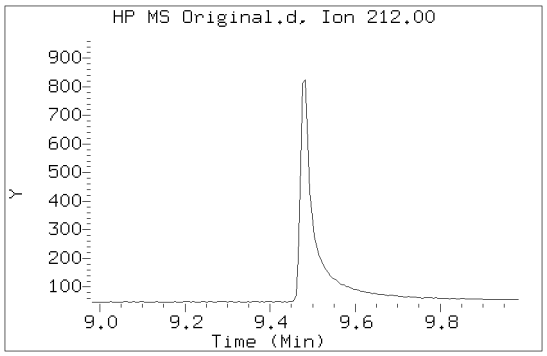
AFTER

MASS
122
AREA
2466
HEIGHT
1193
27-Jan-2023
11:55



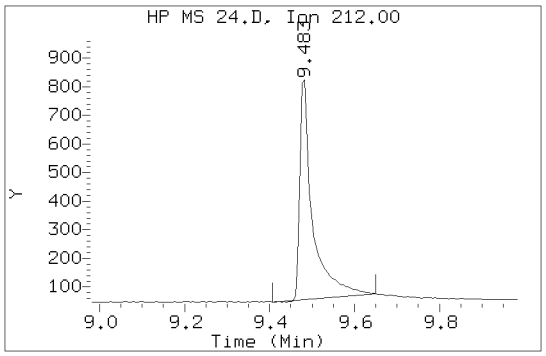
BEFORE

MASS
212
AREA
0
HEIGHT
0
26-Jan-2023
19:06
ALSHS
Server



AFTER

MASS
212
AREA
1594
HEIGHT
767
27-Jan-2023
11:55

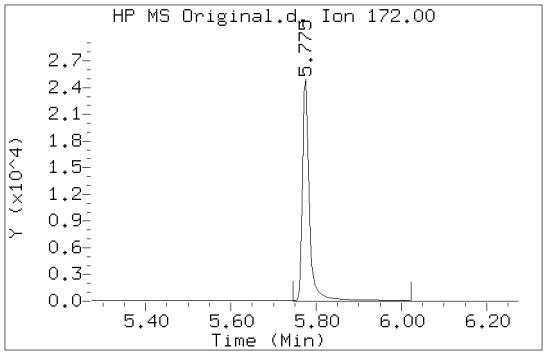


2-Fluorobiphenyl (321-60-8)

Reason Code:

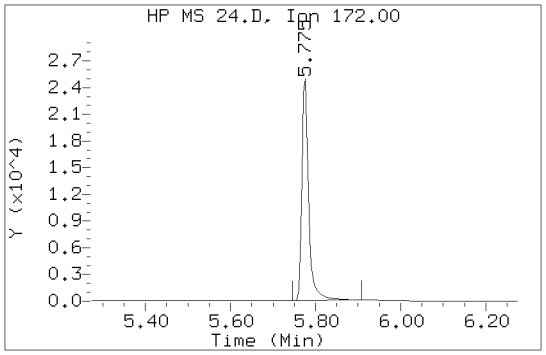
BEFORE

MASS
172
AREA
29099
HEIGHT
24976
26-Jan-2023
19:06
ALSHS
Server



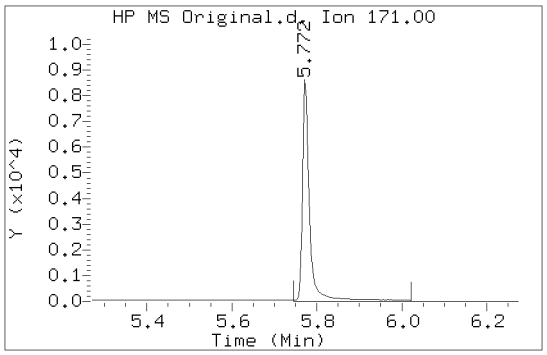
AFTER

MASS
172
AREA
27466
HEIGHT
24904
27-Jan-2023
11:55



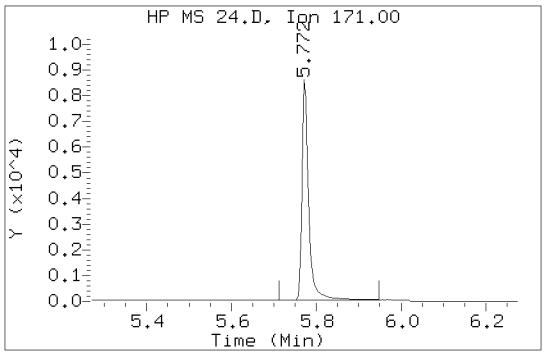
BEFORE

MASS
171
AREA
10346
HEIGHT
8624
26-Jan-2023
19:06
ALSHS
Server



AFTER

MASS
171
AREA
9413
HEIGHT
8573
27-Jan-2023
11:55



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230126.b\25.D
Lab Smp Id: 1 4-DX-0.5 Client Smp ID: 1 4-DX-0.5
Inj Date : 26-JAN-2023 19:09
Operator : LG Inst ID: SV6.i
Smp Info : 1 4-DX-0.5;1 4-DX-0.5
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230126.b\DXSIM.m
Meth Date : 27-Jan-2023 11:56 SV6.i Quant Type: ISTD
Cal Date : 26-JAN-2023 18:51 Cal File: 24.D
Als bottle: 24 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.619	3.619	(1.000)	3987	0.10000	(aM)
* 45 Naphthalene-d8	136	4.746	4.746	(1.000)	13771	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.092	4.092	(0.862)	20261	0.50000	0.5099(AM)
* 86 Acenaphthene-d10	164	6.429	6.429	(1.000)	7556	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.775	5.775	(0.898)	51391	0.50000	0.5182(AM)
* 126 Phenanthrene-d10	188	7.884	7.884	(1.000)	15367	0.10000	
* 182 Chrysene-d12	240	10.757	10.757	(1.000)	3979	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.482	9.482	(0.881)	48596	0.50000	0.4992(AM)
* 198 Perylene-d12	264	12.862	12.862	(1.000)	3426	0.10000	
1 1,4-Dioxane	58	1.828	1.828	(0.505)	6578	0.50000	0.4523(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

M - Compound response manually integrated.

01184714

Data File: \\NAHSTWS005\Target\chem\SV6.i\230126.b\25.D

Date : 26-JAN-2023 19:09

Client ID: 1 4-DX-0.5

Instrument: SV6.i

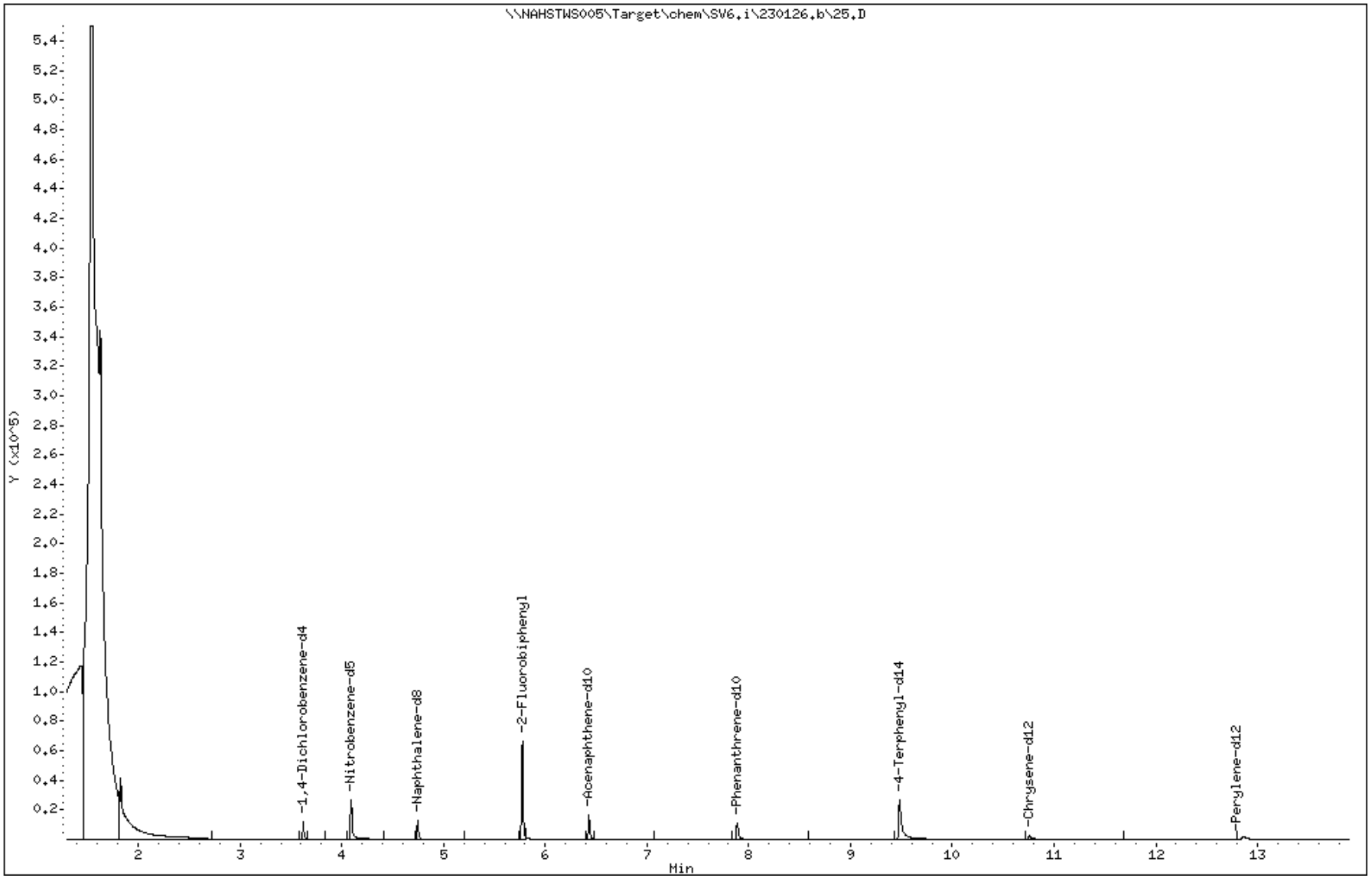
Sample Info: 1 4-DX-0.5;1 4-DX-0.5

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

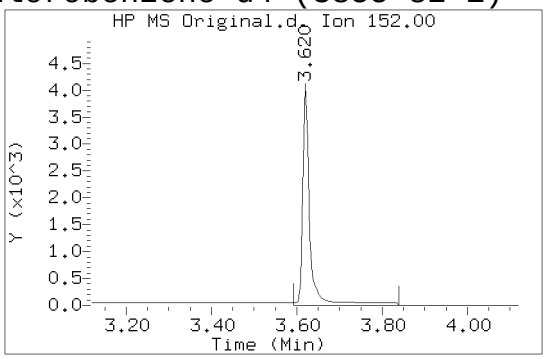


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\25.D
Inj Date : 26-JAN-2023 19:09
InstruID : SV6.i
LabSampID : 1 4-DX-0.5

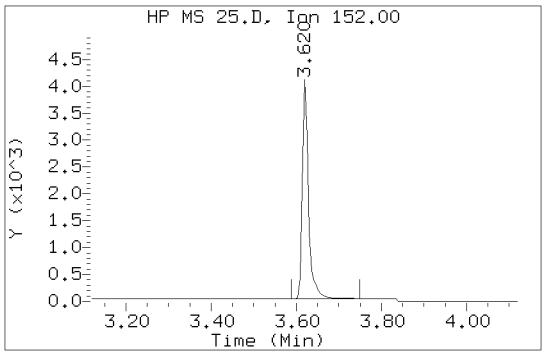
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

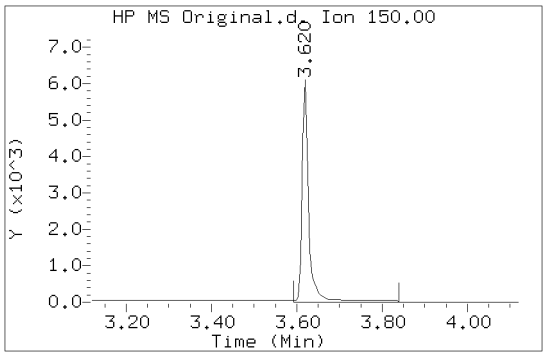
BEFORE
MASS
152
AREA
4746
HEIGHT
4125
26-Jan-2023
19:25
ALSHS
Server



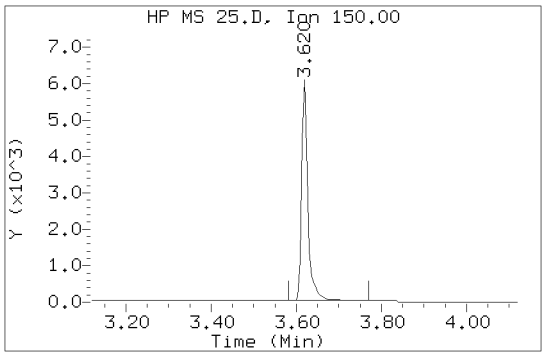
AFTER
MASS
152
AREA
3987
HEIGHT
4075
27-Jan-2023
11:55



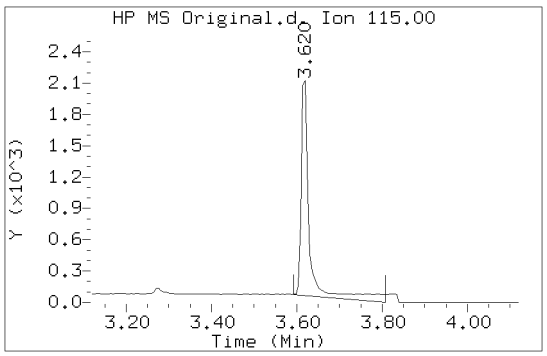
BEFORE
MASS
150
AREA
6719
HEIGHT
6101
26-Jan-2023
19:25
ALSHS
Server



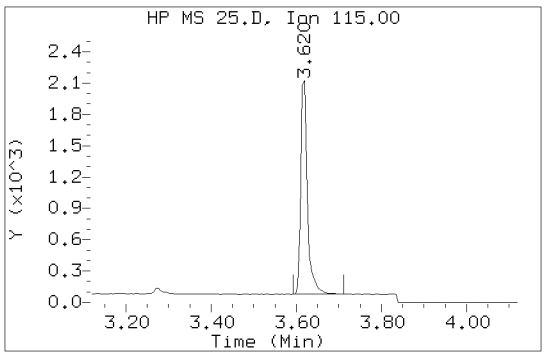
AFTER
MASS
150
AREA
5981
HEIGHT
6052
27-Jan-2023
11:55



BEFORE
MASS
115
AREA
2721
HEIGHT
2057
26-Jan-2023
19:25
ALSHS
Server



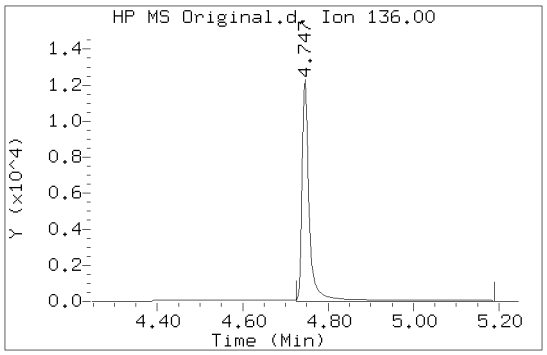
AFTER
MASS
115
AREA
2196
HEIGHT
2045
27-Jan-2023
11:55



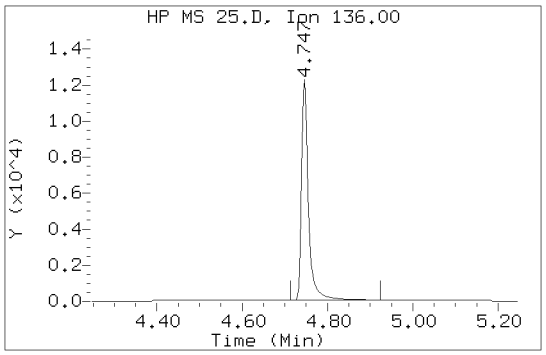
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
15738
HEIGHT
12301
26-Jan-2023
19:25
ALSHS
Server



AFTER
MASS
136
AREA
13771
HEIGHT
12236
27-Jan-2023
11:55



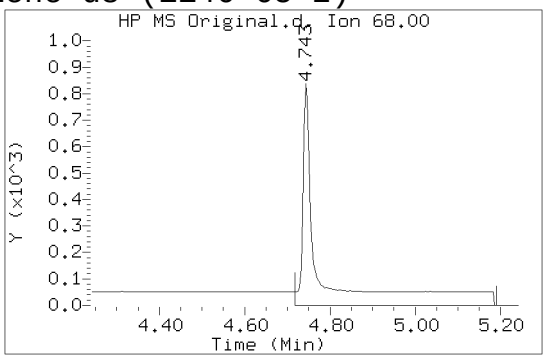
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\25.D
Inj Date : 26-JAN-2023 19:09
InstruID : SV6.i
LabSampID : 1 4-DX-0.5

Naphthalene-d8 (1146-65-2)

Reason Code:

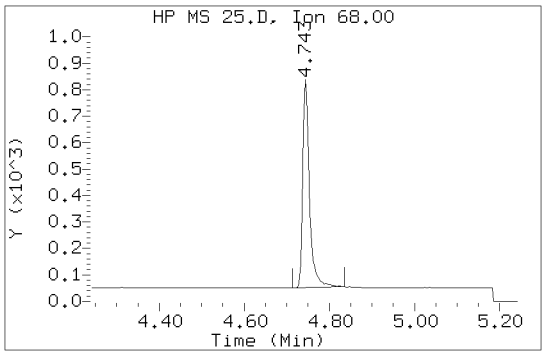
BEFORE

MASS
68
AREA
2324
HEIGHT
838
26-Jan-2023
19:25
ALSHS
Server



AFTER

MASS
68
AREA
859
HEIGHT
785
27-Jan-2023
11:55

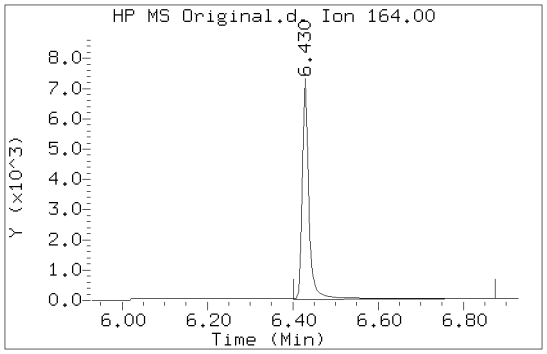


Acenaphthene-d10 (15067-26-2)

Reason Code:

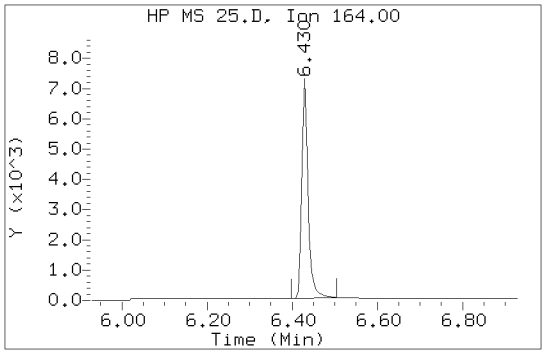
BEFORE

MASS
164
AREA
8287
HEIGHT
7297
26-Jan-2023
19:25
ALSHS
Server



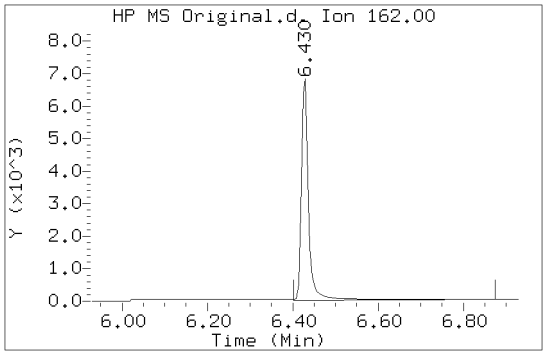
AFTER

MASS
164
AREA
7556
HEIGHT
7256
27-Jan-2023
11:55



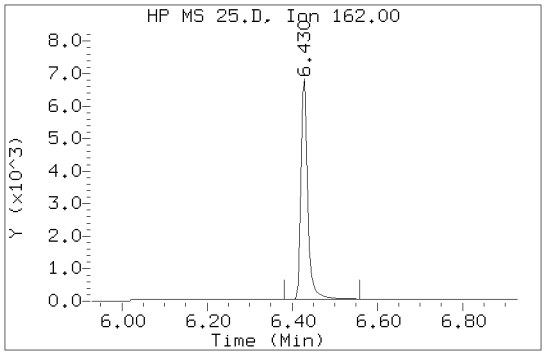
BEFORE

MASS
162
AREA
8184
HEIGHT
6810
26-Jan-2023
19:25
ALSHS
Server



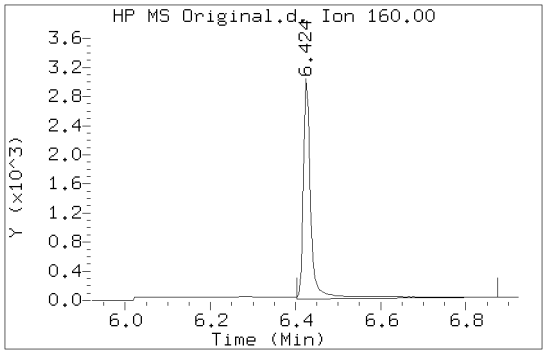
AFTER

MASS
162
AREA
7631
HEIGHT
6780
27-Jan-2023
11:55



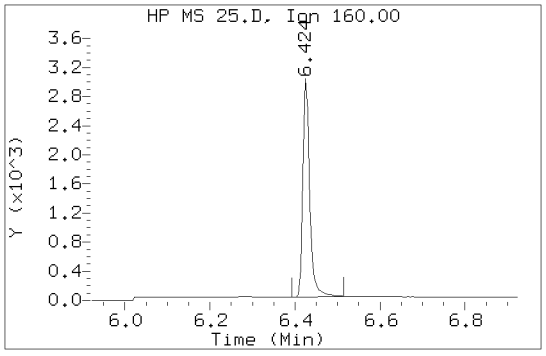
BEFORE

MASS
160
AREA
3710
HEIGHT
3023
26-Jan-2023
19:25
ALSHS
Server



AFTER

MASS
160
AREA
3264
HEIGHT
2996
27-Jan-2023
11:55

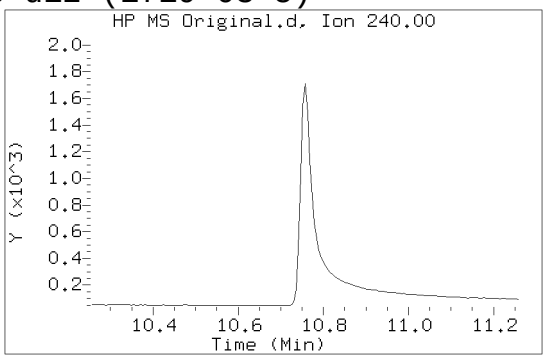


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\25.D
Inj Date : 26-JAN-2023 19:09
InstruID : SV6.i
LabSampID : 1 4-DX-0.5

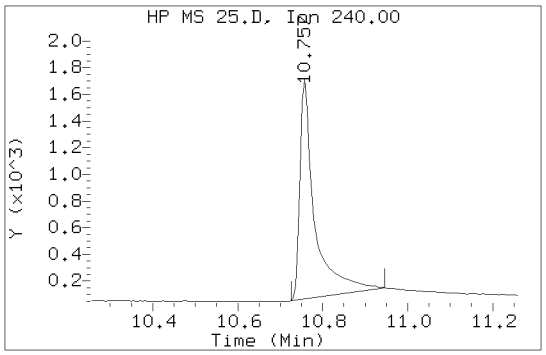
Chrysene-d12 (1719-03-5)

Reason Code:

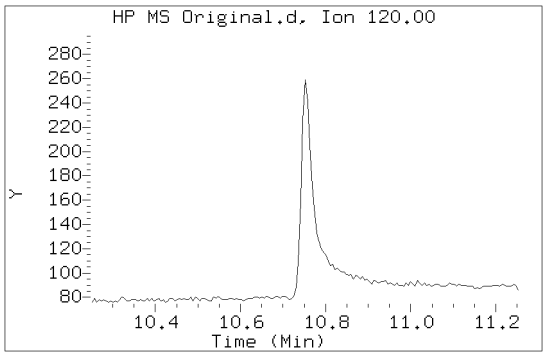
BEFORE
MASS
240
AREA
0
HEIGHT
0
26-Jan-2023
19:25
ALSHS
Server



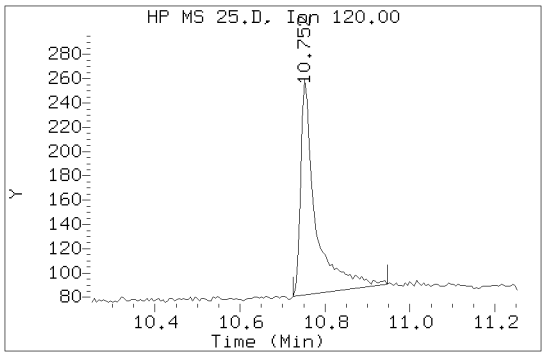
AFTER
MASS
240
AREA
3979
HEIGHT
1644
27-Jan-2023
11:55



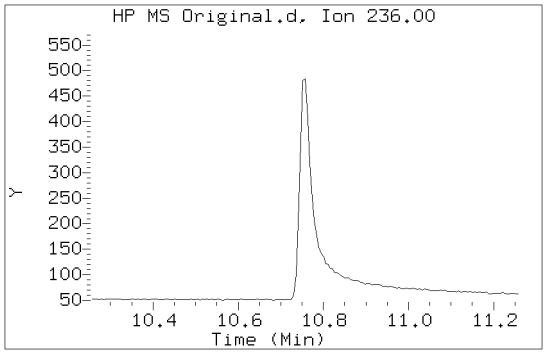
BEFORE
MASS
120
AREA
0
HEIGHT
0
26-Jan-2023
19:25
ALSHS
Server



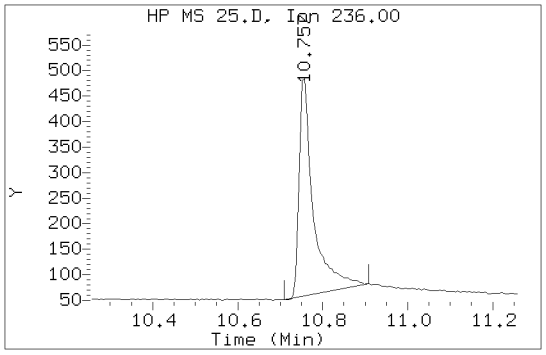
AFTER
MASS
120
AREA
428
HEIGHT
176
27-Jan-2023
11:55



BEFORE
MASS
236
AREA
0
HEIGHT
0
26-Jan-2023
19:25
ALSHS
Server



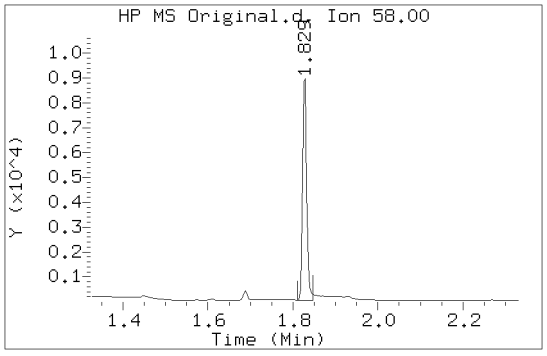
AFTER
MASS
236
AREA
988
HEIGHT
425
27-Jan-2023
11:55



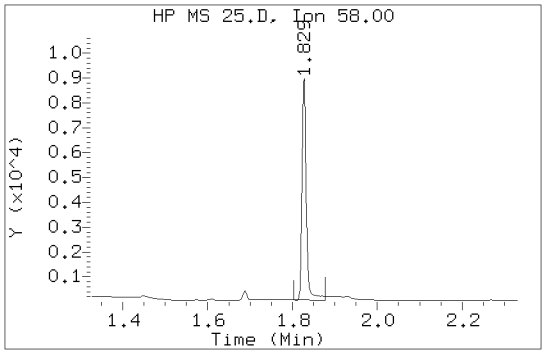
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
58
AREA
6279
HEIGHT
8907
26-Jan-2023
19:25
ALSHS
Server



AFTER
MASS
58
AREA
6578
HEIGHT
8904
27-Jan-2023
11:55



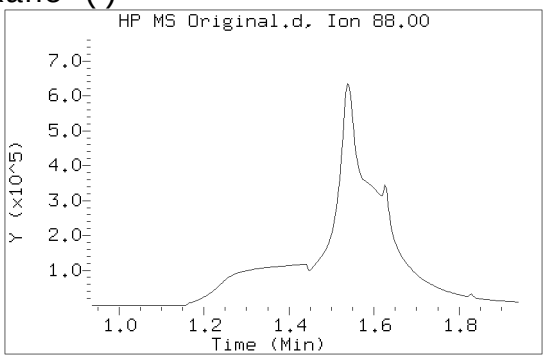
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\25.D
Inj Date : 26-JAN-2023 19:09
InstruID : SV6.i
LabSampID : 1 4-DX-0.5

1,4-Dioxane ()

Reason Code:

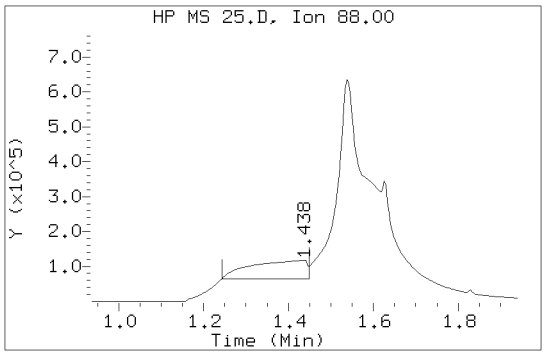
BEFORE

MASS
88
AREA
0
HEIGHT
0
26-Jan-2023
19:25
ALSHS
Server



AFTER

MASS
88
AREA
479995
HEIGHT
52208
27-Jan-2023
11:55

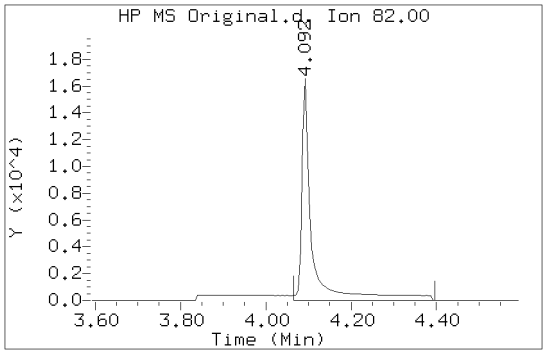


Nitrobenzene-d5 (4165-60-0)

Reason Code:

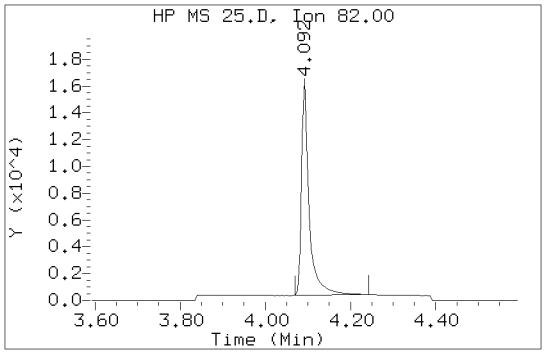
BEFORE

MASS
82
AREA
27706
HEIGHT
16544
26-Jan-2023
19:25
ALSHS
Server



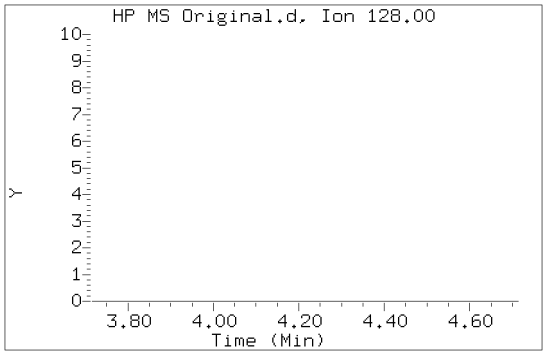
AFTER

MASS
82
AREA
20261
HEIGHT
16172
27-Jan-2023
11:55



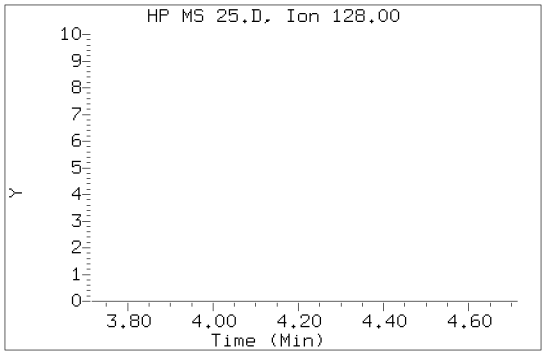
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jan-2023
19:25
ALSHS
Server



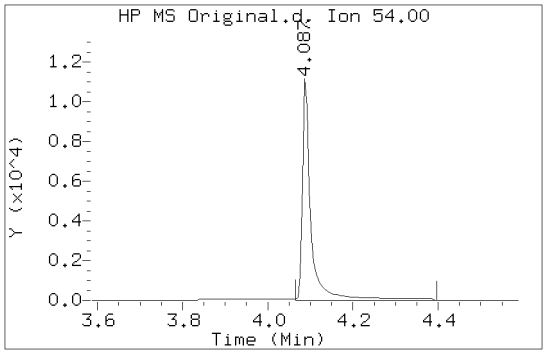
AFTER

MASS
128
AREA
0
HEIGHT
0
27-Jan-2023
11:55



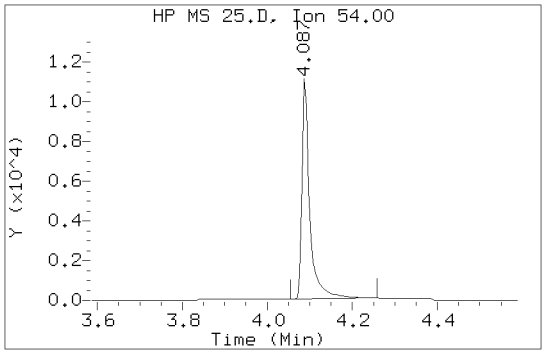
BEFORE

MASS
54
AREA
16018
HEIGHT
11163
26-Jan-2023
19:25
ALSHS
Server



AFTER

MASS
54
AREA
14306
HEIGHT
11091
27-Jan-2023
11:55

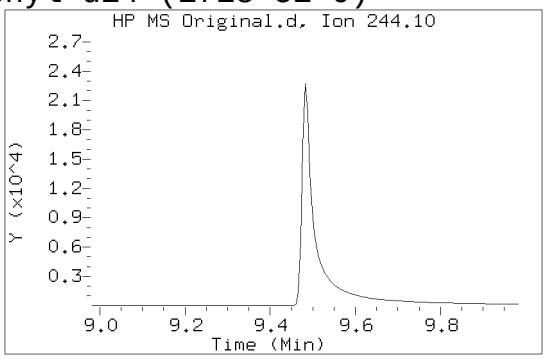


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\25.D
Inj Date : 26-JAN-2023 19:09
InstruID : SV6.i
LabSampID : 1 4-DX-0.5

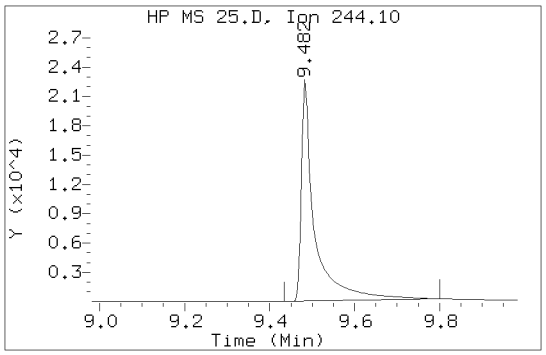
4-Terphenyl-d14 (1718-51-0)

Reason Code:

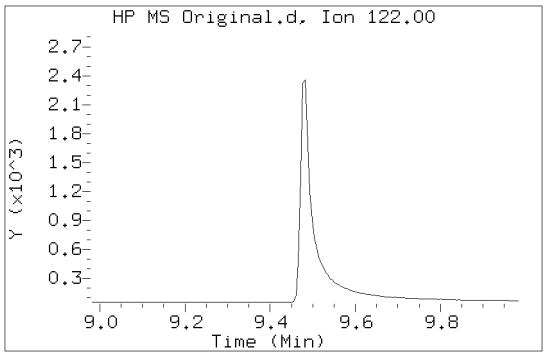
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
26-Jan-2023
19:25
ALSHS
Server



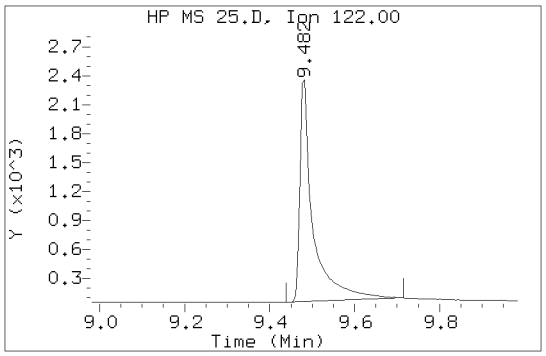
AFTER
MASS
244.1
AREA
48596
HEIGHT
22641
27-Jan-2023
11:55



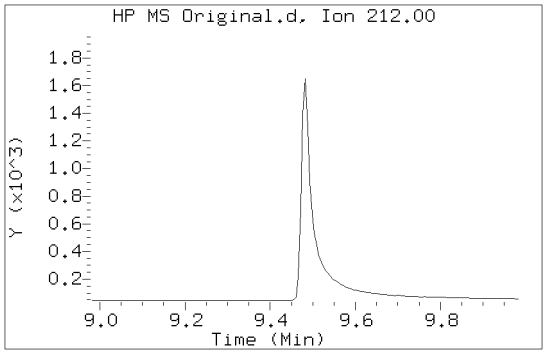
BEFORE
MASS
122
AREA
0
HEIGHT
0
26-Jan-2023
19:25
ALSHS
Server



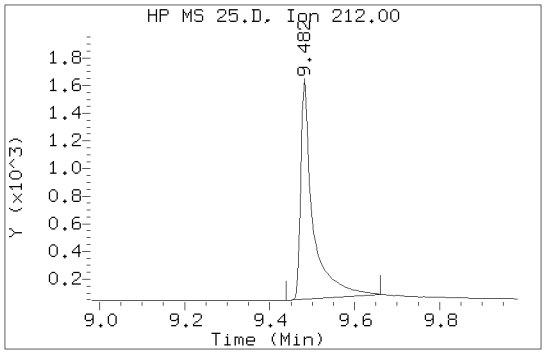
AFTER
MASS
122
AREA
4888
HEIGHT
2294
27-Jan-2023
11:55



BEFORE
MASS
212
AREA
0
HEIGHT
0
26-Jan-2023
19:25
ALSHS
Server



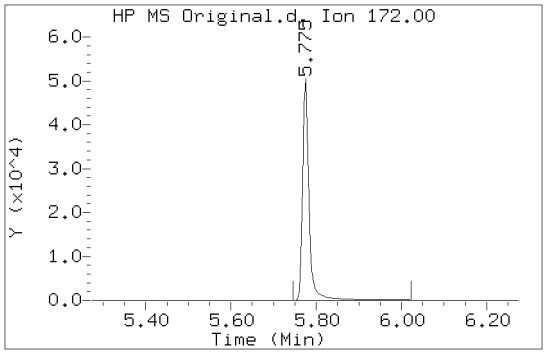
AFTER
MASS
212
AREA
3128
HEIGHT
1592
27-Jan-2023
11:55



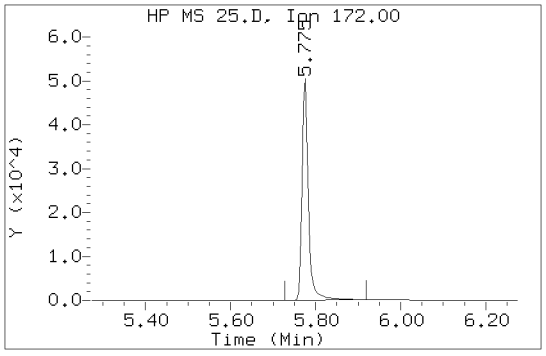
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
53226
HEIGHT
50504
26-Jan-2023
19:25
ALSHS
Server



AFTER
MASS
172
AREA
51391
HEIGHT
50425
27-Jan-2023
11:55



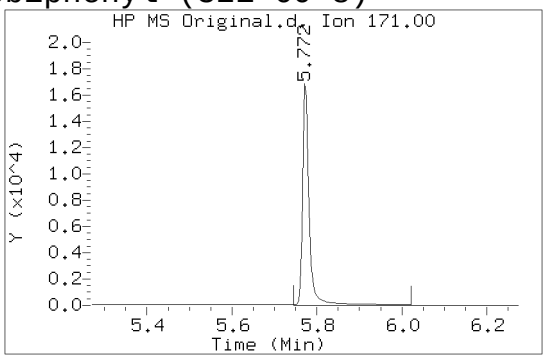
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\25.D
Inj Date : 26-JAN-2023 19:09
InstruID : SV6.i
LabSampID : 1 4-DX-0.5

2-Fluorobiphenyl (321-60-8)

Reason Code:

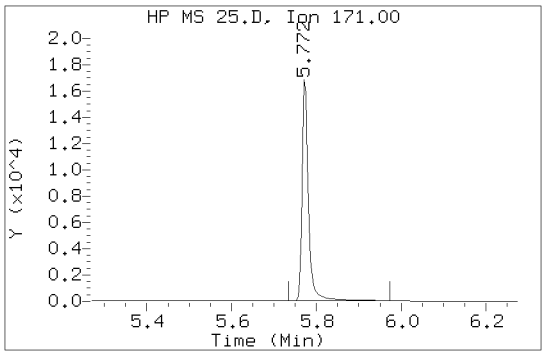
BEFORE

MASS
171
AREA
18570
HEIGHT
16864
26-Jan-2023
19:25
ALSHS
Server



AFTER

MASS
171
AREA
17611
HEIGHT
16814
27-Jan-2023
11:55



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230126.b\26.D
Lab Smp Id: 1 4-DX-ICV Client Smp ID: 1 4-DX-ICV
Inj Date : 26-JAN-2023 19:27
Operator : LG Inst ID: SV6.i
Smp Info : 1 4-DX-ICV;1 4-DX-ICV;3;;METHSPIKE
Misc Info : not used
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230126.b\DXSIM.m
Meth Date : 01-Feb-2023 16:17 Linh.Pham Quant Type: ISTD
Cal Date : 26-JAN-2023 19:09 Cal File: 25.D
Als bottle: 25 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.619	3.620	(1.000)	2394	0.10000	(aM)
* 45 Naphthalene-d8	136	4.747	4.747	(1.000)	7860	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.092	4.091	(0.862)	1632	0.07196	0.07196(M)
* 86 Acenaphthene-d10	164	6.429	6.430	(1.000)	4607	0.10000	(QM)
$ 69 2-Fluorobiphenyl	172	5.779	5.775	(0.899)	4787	0.07917	0.07917(M)
* 126 Phenanthrene-d10	188	7.890	7.885	(1.000)	7915	0.10000	(M)
* 182 Chrysene-d12	240	10.762	10.757	(1.000)	1871	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.487	9.482	(0.882)	2907	0.08903	0.08903(M)
* 198 Perylene-d12	264	12.862	12.863	(1.000)	1224	0.10000	
1 1,4-Dioxane	58	1.799	1.829	(0.497)	304	0.03481	0.03481(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

01184722

Data File: \\NAHSTWS005\Target\chem\SV6.i\230126.b\26.D

Date : 26-JAN-2023 19:27

Client ID: 1 4-DX-ICV

Instrument: SV6.i

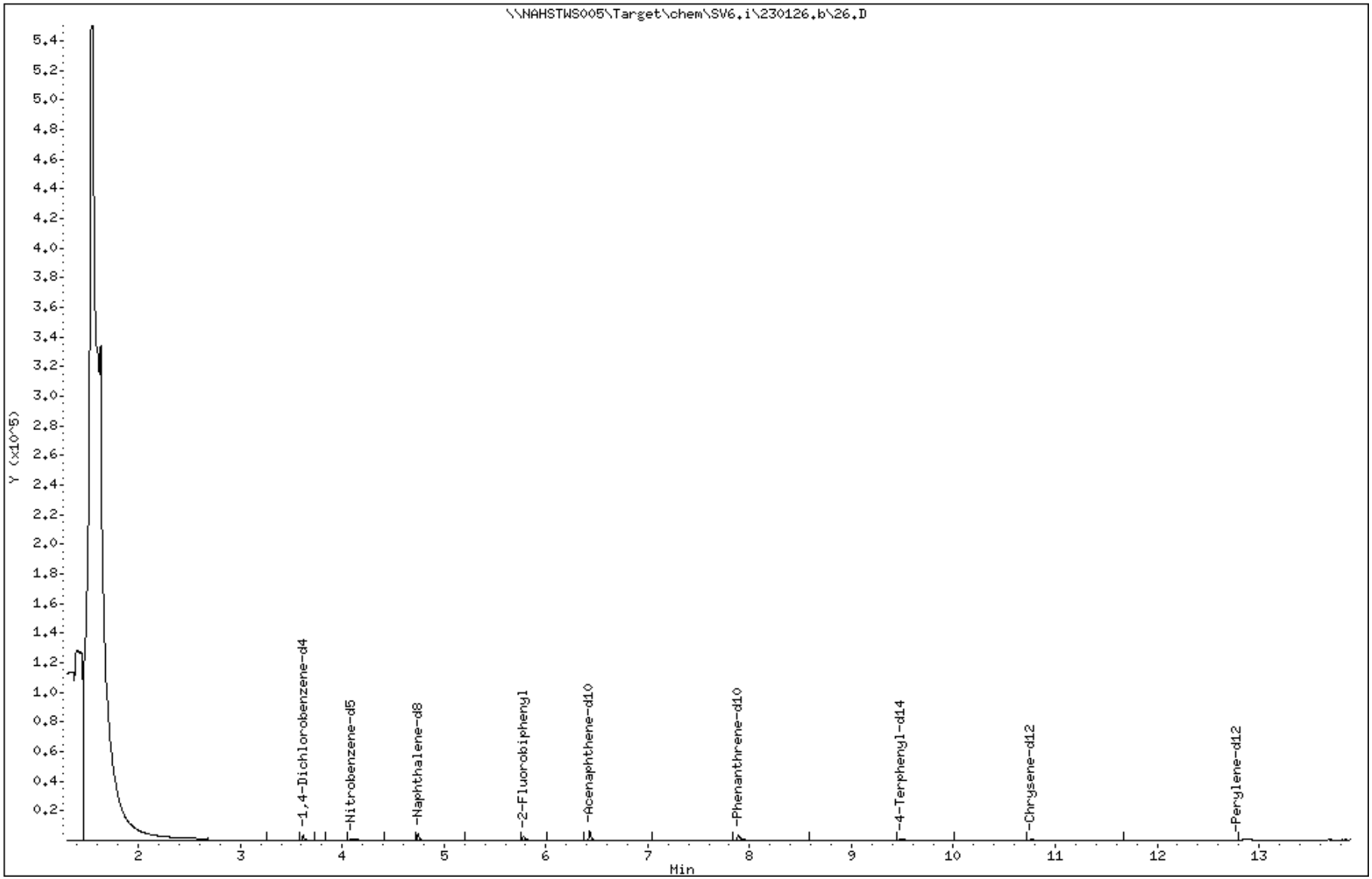
Sample Info: 1 4-DX-ICV;1 4-DX-ICV;3;;METHSPIKE

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



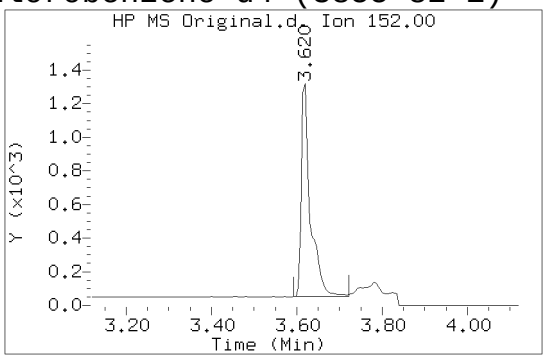
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\26.D
Inj Date : 26-JAN-2023 19:27
InstruID : SV6.i
LabSampID : 1 4-DX-ICV

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

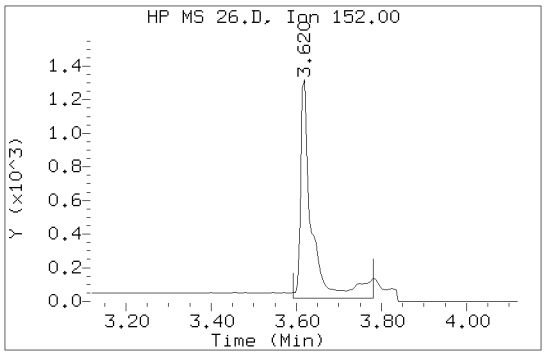
BEFORE

MASS
152
AREA
1846
HEIGHT
1267
26-Jan-2023
19:42
ALSHS
Server



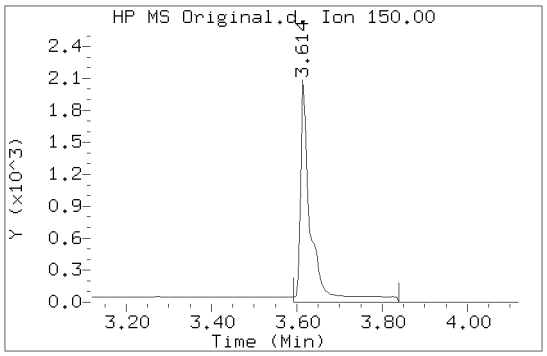
AFTER

MASS
152
AREA
2394
HEIGHT
1299
01-Feb-2023
16:40
ALSHS
Ser



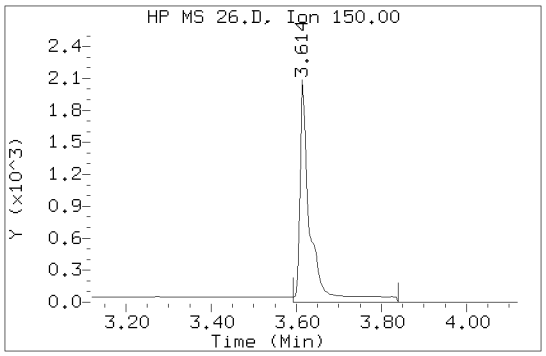
BEFORE

MASS
150
AREA
3511
HEIGHT
2086
26-Jan-2023
19:42
ALSHS
Server



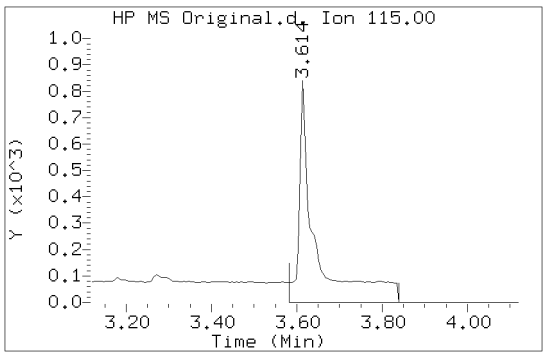
AFTER

MASS
150
AREA
3511
HEIGHT
2086
01-Feb-2023
16:40
ALSHS
Ser



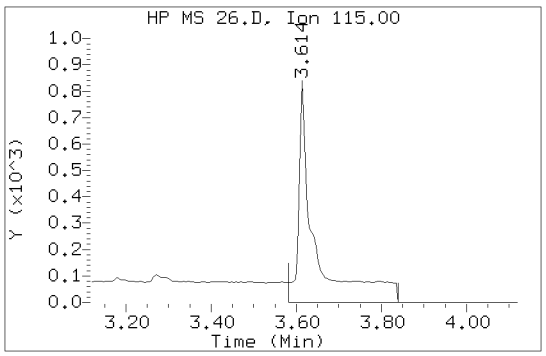
BEFORE

MASS
115
AREA
2199
HEIGHT
840
26-Jan-2023
19:42
ALSHS
Server



AFTER

MASS
115
AREA
2199
HEIGHT
840
01-Feb-2023
16:40
ALSHS
Ser

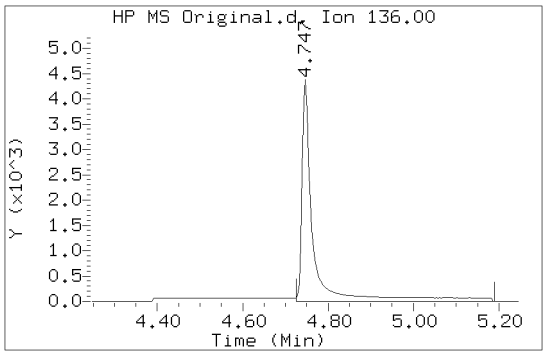


Naphthalene-d8 (1146-65-2)

Reason Code:

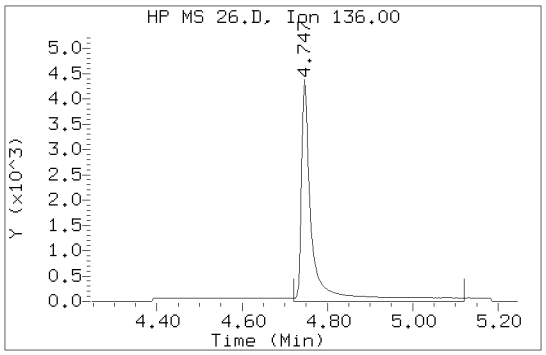
BEFORE

MASS
136
AREA
8101
HEIGHT
4379
26-Jan-2023
19:42
ALSHS
Server



AFTER

MASS
136
AREA
7860
HEIGHT
4379
01-Feb-2023
16:40
ALSHS
Ser



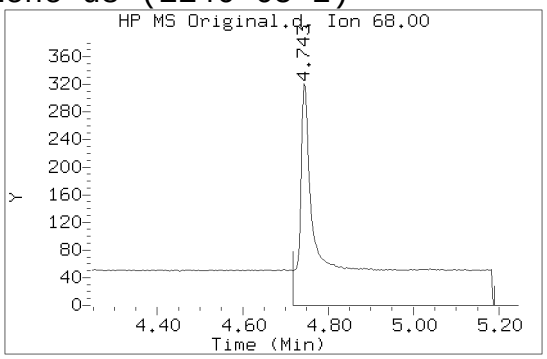
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\26.D
Inj Date : 26-JAN-2023 19:27
InstruID : SV6.i
LabSampID : 1 4-DX-ICV

Naphthalene-d8 (1146-65-2)

Reason Code:

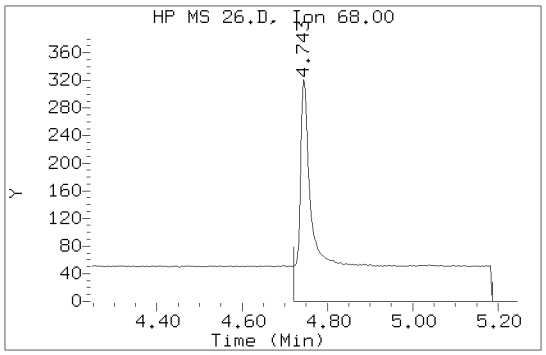
BEFORE

MASS
68
AREA
1835
HEIGHT
321
26-Jan-2023
19:42
ALSHS
Server



AFTER

MASS
68
AREA
1824
HEIGHT
321
01-Feb-2023
16:40
ALSHS
Ser

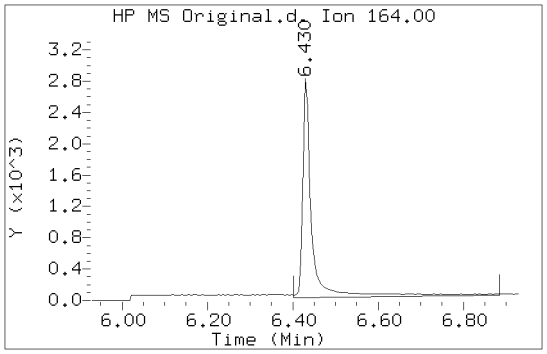


Acenaphthene-d10 (15067-26-2)

Reason Code:

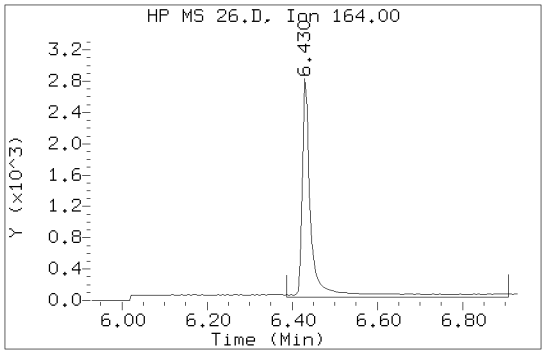
BEFORE

MASS
164
AREA
4223
HEIGHT
2796
26-Jan-2023
19:42
ALSHS
Server



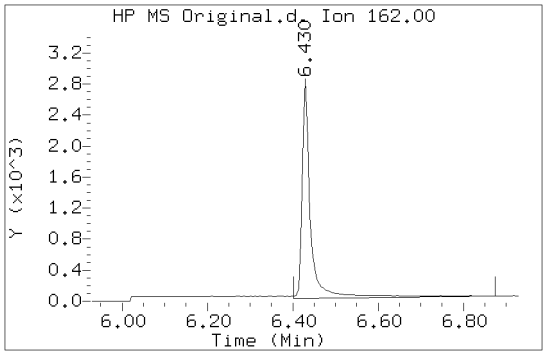
AFTER

MASS
164
AREA
4607
HEIGHT
2791
01-Feb-2023
16:40
ALSHS
Ser



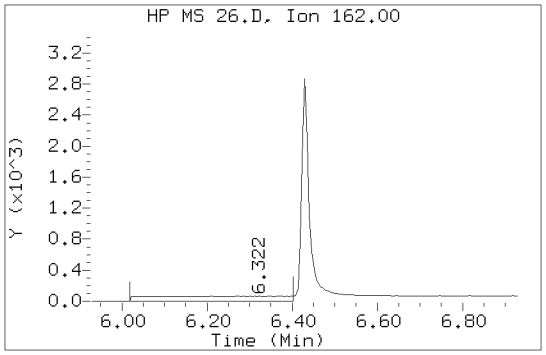
BEFORE

MASS
162
AREA
4065
HEIGHT
2834
26-Jan-2023
19:42
ALSHS
Server



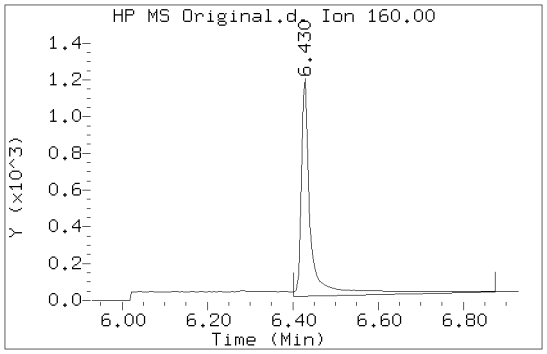
AFTER

MASS
162
AREA
1418
HEIGHT
65
01-Feb-2023
16:40
ALSHS
Ser



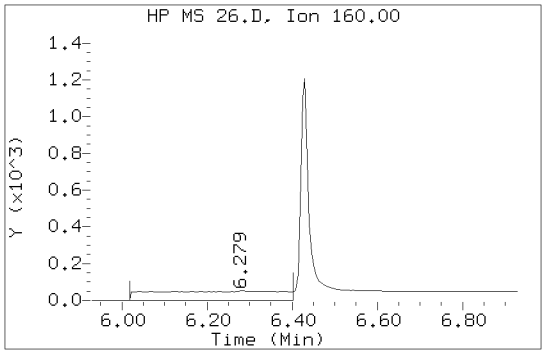
BEFORE

MASS
160
AREA
1922
HEIGHT
1183
26-Jan-2023
19:42
ALSHS
Server



AFTER

MASS
160
AREA
1101
HEIGHT
52
01-Feb-2023
16:40
ALSHS
Ser



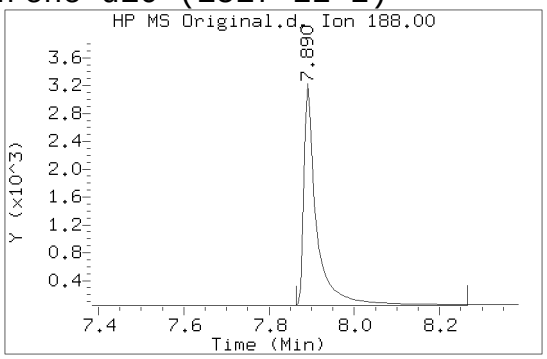
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\26.D
Inj Date : 26-JAN-2023 19:27
InstruID : SV6.i
LabSampID : 1 4-DX-ICV

Phenanthrene-d10 (1517-22-2)

Reason Code:

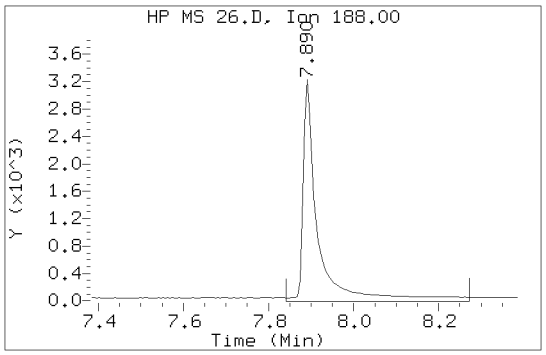
BEFORE

MASS
188
AREA
6555
HEIGHT
3181
26-Jan-2023
19:42
ALSHS
Server



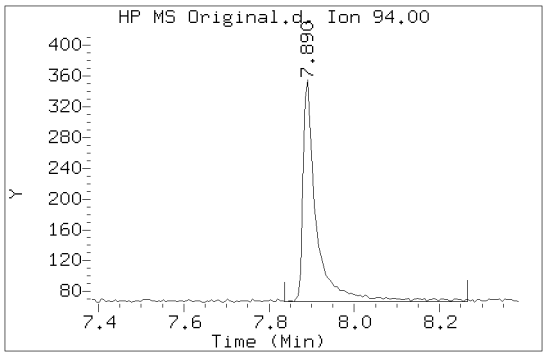
AFTER

MASS
188
AREA
7915
HEIGHT
3233
01-Feb-2023
16:40
ALSHS
Ser



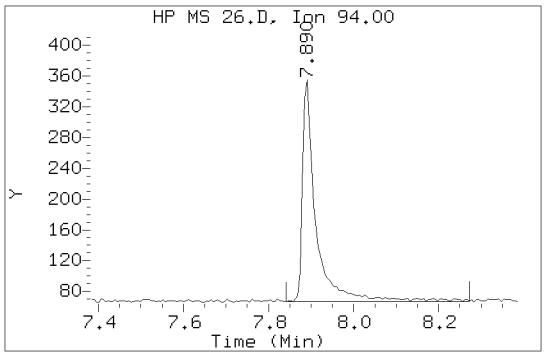
BEFORE

MASS
94
AREA
632
HEIGHT
288
26-Jan-2023
19:42
ALSHS
Server



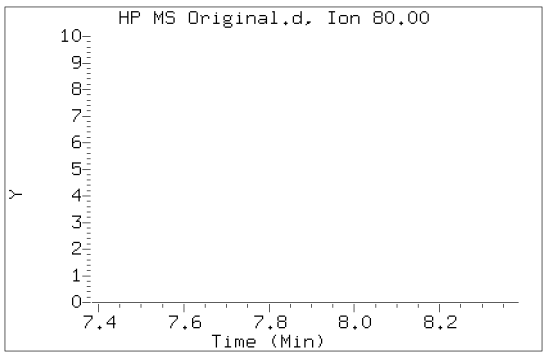
AFTER

MASS
94
AREA
632
HEIGHT
288
01-Feb-2023
16:40
ALSHS
Ser



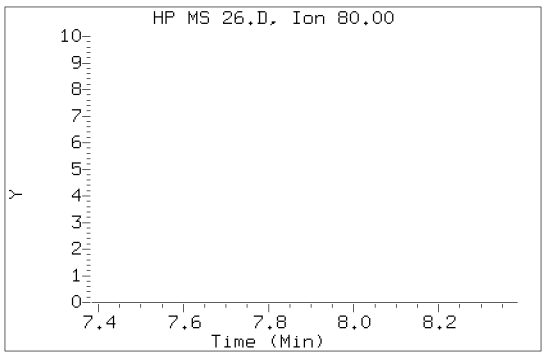
BEFORE

MASS
80
AREA
0
HEIGHT
0
26-Jan-2023
19:42
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
01-Feb-2023
16:40
ALSHS
Ser

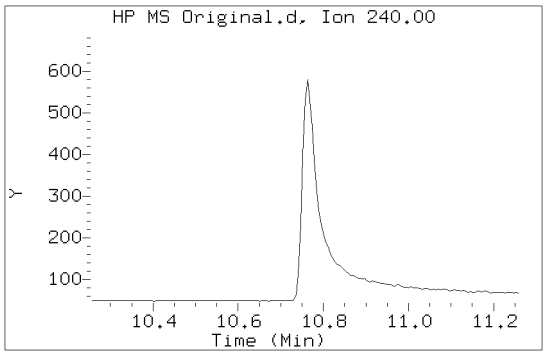


Chrysene-d12 (1719-03-5)

Reason Code:

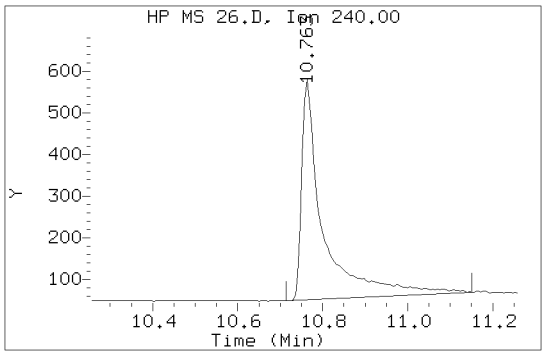
BEFORE

MASS
240
AREA
0
HEIGHT
0
26-Jan-2023
19:42
ALSHS
Server



AFTER

MASS
240
AREA
1871
HEIGHT
529
01-Feb-2023
16:40
ALSHS
Ser



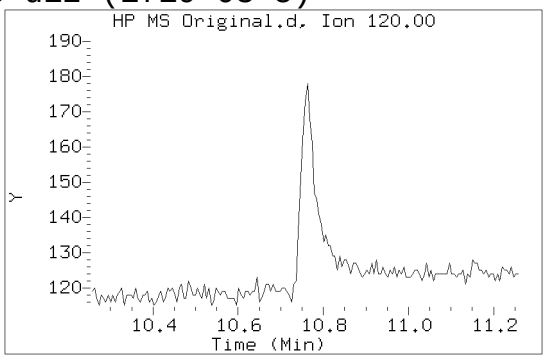
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\26.D
Inj Date : 26-JAN-2023 19:27
InstruID : SV6.i
LabSampID : 1 4-DX-ICV

Chrysene-d12 (1719-03-5)

Reason Code:

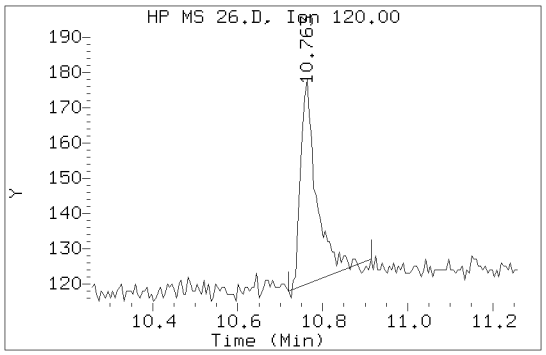
BEFORE

MASS
120
AREA
0
HEIGHT
0
26-Jan-2023
19:42
ALSHS
Server



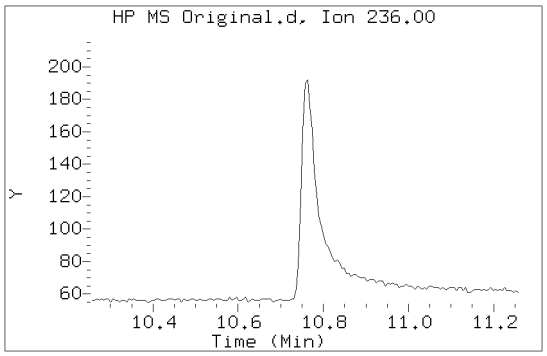
AFTER

MASS
120
AREA
144
HEIGHT
57
01-Feb-2023
16:40
ALSHS
Ser



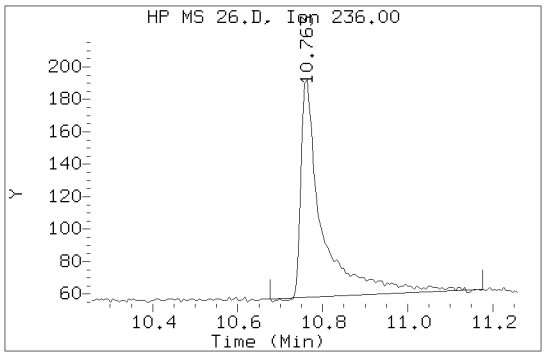
BEFORE

MASS
236
AREA
0
HEIGHT
0
26-Jan-2023
19:42
ALSHS
Server



AFTER

MASS
236
AREA
459
HEIGHT
133
01-Feb-2023
16:40
ALSHS
Ser

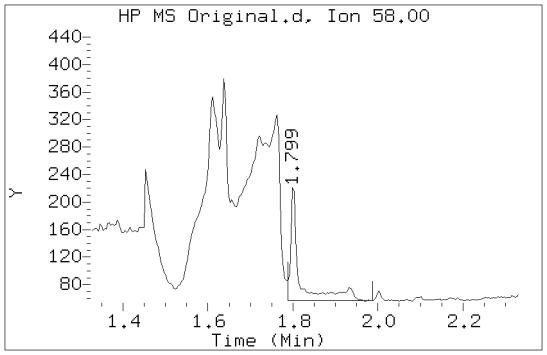


1,4-Dioxane ()

Reason Code:

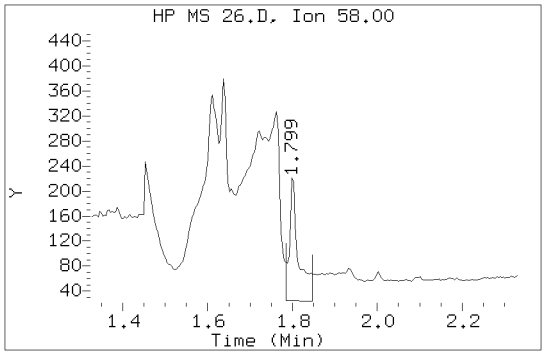
BEFORE

MASS
58
AREA
236
HEIGHT
164
26-Jan-2023
19:42
ALSHS
Server



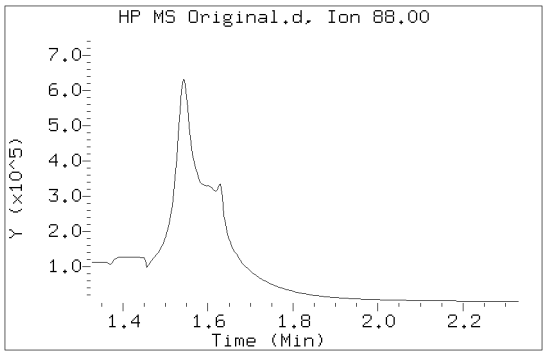
AFTER

MASS
58
AREA
304
HEIGHT
196
01-Feb-2023
16:40
ALSHS
Ser



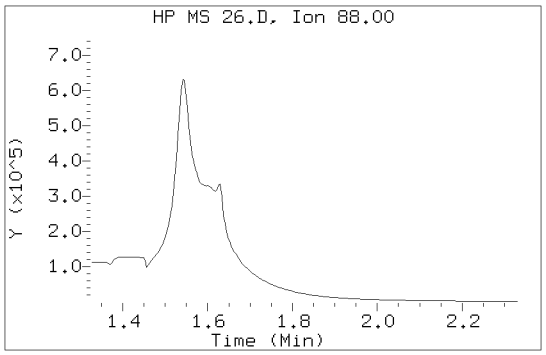
BEFORE

MASS
88
AREA
0
HEIGHT
0
26-Jan-2023
19:42
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
01-Feb-2023
16:40
ALSHS
Ser



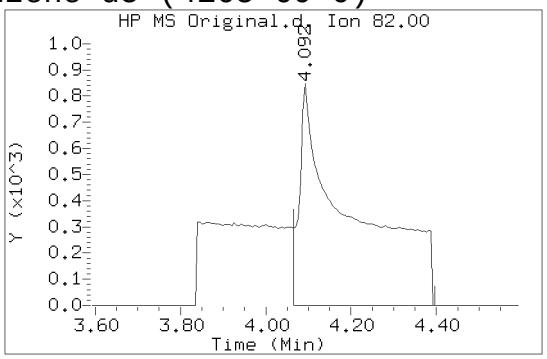
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\26.D
Inj Date : 26-JAN-2023 19:27
InstruID : SV6.i
LabSampID : 1 4-DX-ICV

Nitrobenzene-d5 (4165-60-0)

Reason Code:

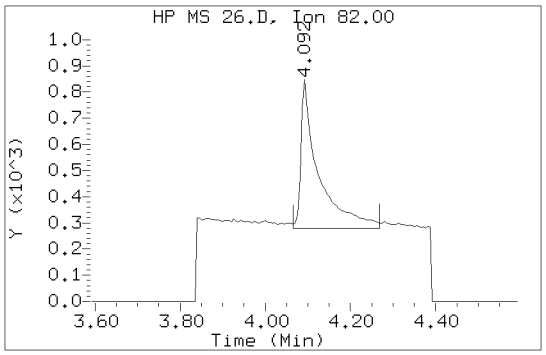
BEFORE

MASS
82
AREA
7163
HEIGHT
847
26-Jan-2023
19:42
ALSHS
Server



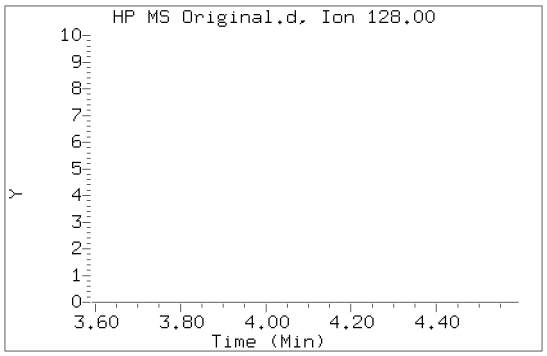
AFTER

MASS
82
AREA
1632
HEIGHT
568
01-Feb-2023
16:40
ALSHS
Ser



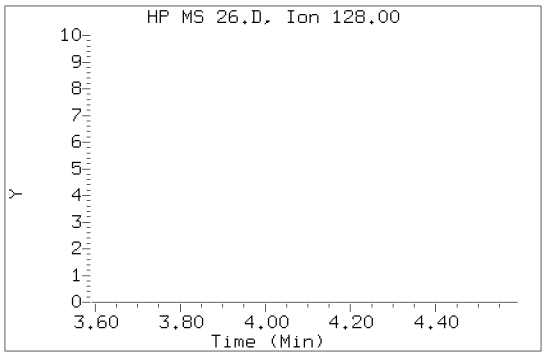
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jan-2023
19:42
ALSHS
Server



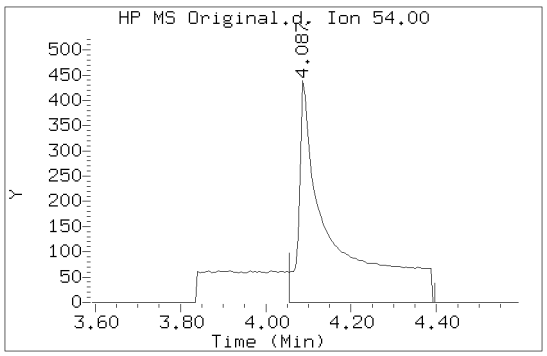
AFTER

MASS
128
AREA
0
HEIGHT
0
01-Feb-2023
16:40
ALSHS
Ser



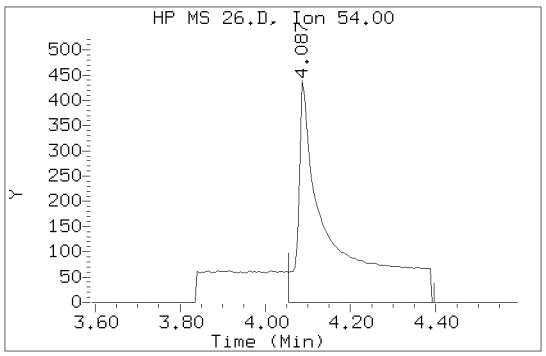
BEFORE

MASS
54
AREA
2316
HEIGHT
439
26-Jan-2023
19:42
ALSHS
Server



AFTER

MASS
54
AREA
2316
HEIGHT
439
01-Feb-2023
16:40
ALSHS
Ser

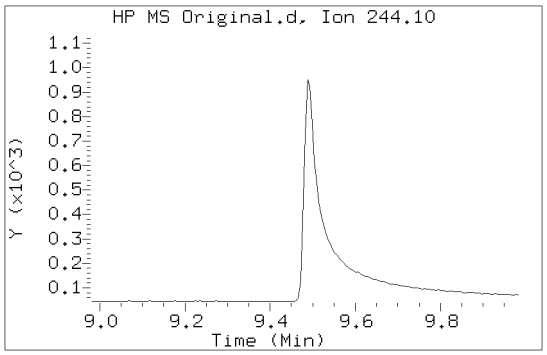


4-Terphenyl-d14 (1718-51-0)

Reason Code:

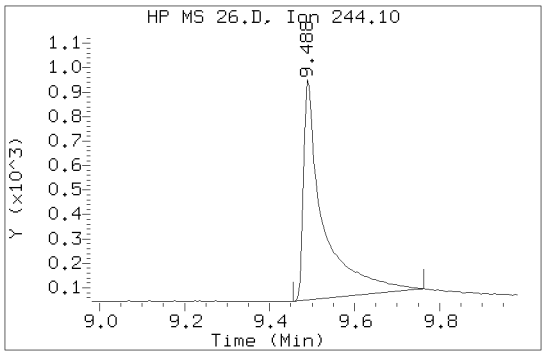
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
26-Jan-2023
19:42
ALSHS
Server



AFTER

MASS
244.1
AREA
2907
HEIGHT
899
01-Feb-2023
16:40
ALSHS
Ser



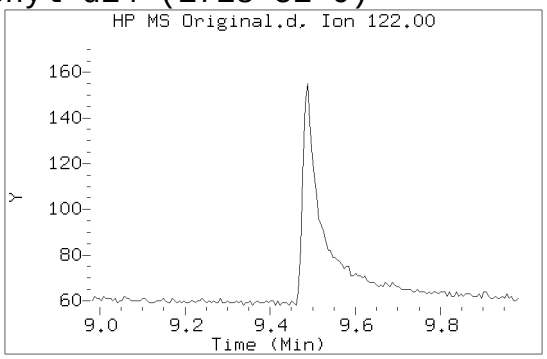
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\26.D
Inj Date : 26-JAN-2023 19:27
InstruID : SV6.i
LabSampID : 1 4-DX-ICV

4-Terphenyl-d14 (1718-51-0)

Reason Code:

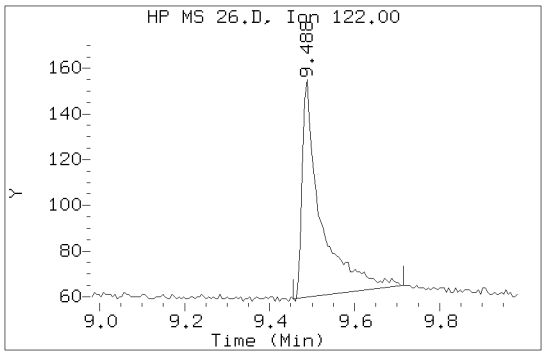
BEFORE

MASS
122
AREA
0
HEIGHT
0
26-Jan-2023
19:42
ALSHS
Server



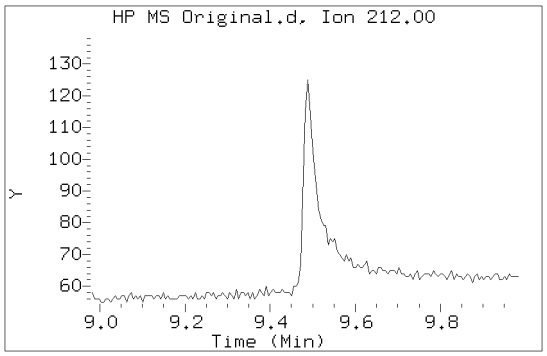
AFTER

MASS
122
AREA
290
HEIGHT
95
01-Feb-2023
16:40
ALSHS
Ser



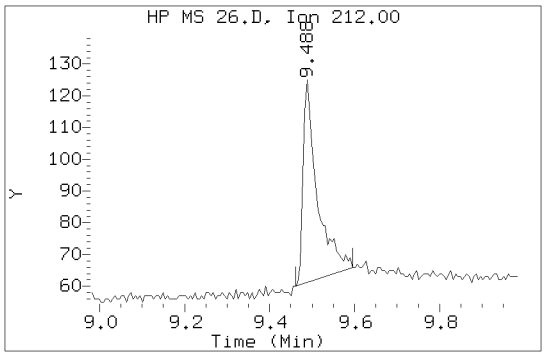
BEFORE

MASS
212
AREA
0
HEIGHT
0
26-Jan-2023
19:42
ALSHS
Server



AFTER

MASS
212
AREA
148
HEIGHT
63
01-Feb-2023
16:40
ALSHS
Ser

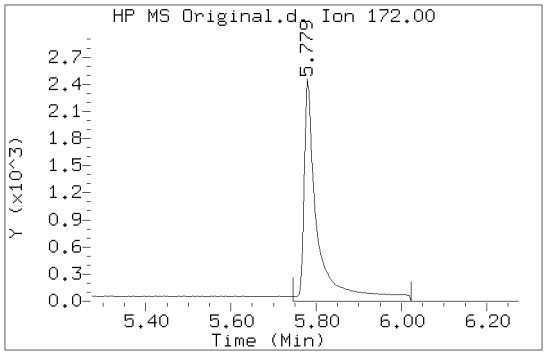


2-Fluorobiphenyl (321-60-8)

Reason Code:

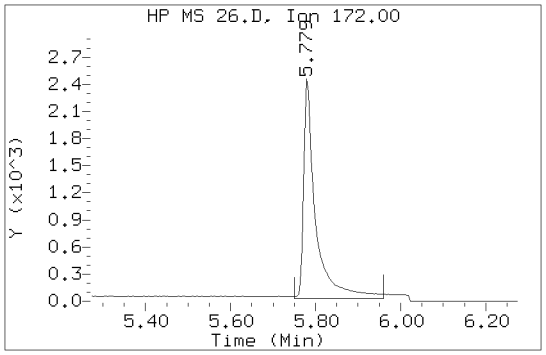
BEFORE

MASS
172
AREA
5421
HEIGHT
2461
26-Jan-2023
19:42
ALSHS
Server



AFTER

MASS
172
AREA
4787
HEIGHT
2431
01-Feb-2023
16:40
ALSHS
Ser



BEFORE

MASS
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AREA
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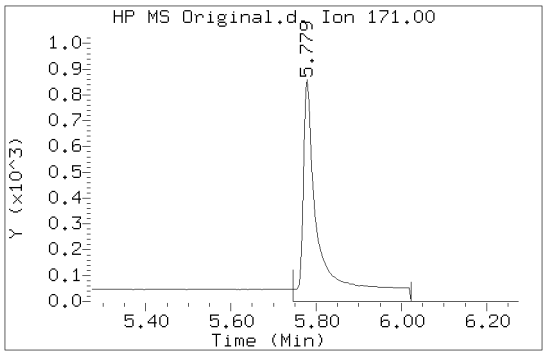
HEIGHT
859
26-Jan-2023
19:42
ALSHS
Server



AFTER

MASS
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AREA
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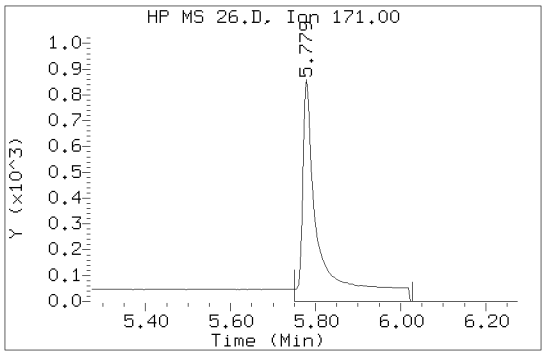
HEIGHT
859
01-Feb-2023
16:40
ALSHS
Ser



01184729

right solutions.
right partner.

Raw Data SV-6 431416

Semi-Volatiles by EPA 8270SIM

Workorder

HS23031291

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Effluent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\01.D Page 1
Report Date: 30-Mar-2023 12:09

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\230330.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 30-MAR-2023 10:53
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230330.b\DFTPP.m
Meth Date : 14-Mar-2023 15:59 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.159	6.357	-2.198	198	83072			0.00- 100.00	100.00
4.159	6.357	-2.198	51	37488			10.00- 80.00	45.13
4.159	6.357	-2.198	68	0	0.0	0.0	0.00- 2.00	0.00
4.159	6.357	-2.198	69	38808			0.00- 0.00	46.72
4.159	6.357	-2.198	70	203			0.00- 2.00	0.52
4.159	6.357	-2.198	127	41792			10.00- 80.00	50.31
4.159	6.357	-2.198	197	0	0.0	0.0	0.00- 2.00	0.00
4.159	6.357	-2.198	199	5747			5.00- 9.00	6.92
4.159	6.357	-2.198	275	21256			10.00- 60.00	25.59
4.159	6.357	-2.198	365	2635			1.00- 100.00	3.17
4.159	6.357	-2.198	441	10822			0.01- 99.99	69.78
4.159	6.357	-2.198	442	72672			50.00- 150.00	87.48
4.159	6.357	-2.198	443	15508			15.00- 24.00	21.34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	45.13
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.72
70	Less than 2.00% of mass 69	0.24 (0.52)
127	10.00 - 80.00% of mass 198	50.31
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.92
275	10.00 - 60.00% of mass 198	25.59
365	1.00 - 100.00% of mass 198	3.17
441	Present, but less than mass 443	13.03
442	50.00 - 150.00% of mass 198	87.48
443	15.00 - 24.00% of mass 442	18.67 (21.34)

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 292: 4.149 min. (SUB)
Location of Maximum: 198.00
Number of points: 225

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	174	120.00	168	187.00	3412	264.90	1264
38.20	533	122.00	806	188.10	358	265.90	275
39.10	2745	123.00	1169	189.00	841	266.90	229
40.00	194	124.00	544	191.00	345	273.00	1526
43.90	40	125.00	577	192.00	825	274.10	3479
49.20	465	127.10	41792	193.00	1104	275.00	21256
50.10	9690	128.00	3454	194.10	308	276.00	2826
51.10	37488	129.00	17104	195.20	187	277.00	1703
52.10	2033	130.00	1555	196.00	2635	278.00	438
55.10	224	130.90	326	198.00	83072	279.80	183
56.00	1305	132.00	249	199.00	5747	282.10	191
57.00	2525	134.00	567	199.90	436	282.90	175
59.10	210	135.00	1376	201.60	420	284.00	180
61.00	493	136.00	501	202.20	183	285.00	297
62.00	580	137.10	668	202.90	561	293.00	527
63.10	1488	137.90	155	204.00	2756	295.00	187
64.00	274	140.10	194	205.10	5274	296.00	5666
65.00	608	141.00	2426	206.10	21672	297.00	927
69.00	38808	142.00	827	207.10	2988	303.00	759
70.00	203	143.00	568	208.00	808	304.00	215
73.10	335	145.00	164	209.00	226	313.90	292
74.10	3698	146.00	359	211.10	816	315.10	652
75.00	5725	147.00	1054	215.10	235	316.00	327
76.10	2093	148.00	2307	216.10	440	321.00	219
77.10	40016	149.00	509	217.00	5827	323.10	1972
78.10	2782	151.00	240	218.00	638	324.00	301
79.00	2804	151.90	218	221.00	4080	327.00	403
80.00	2003	153.00	647	223.00	1408	328.00	199
81.00	3000	154.00	491	224.10	12205	332.00	182
82.00	734	155.10	1179	225.10	3179	333.00	226
83.00	608	156.10	1567	226.10	480	334.00	1204
83.80	203	157.00	378	227.00	5356	335.00	271
84.90	489	158.10	411	228.00	680	341.00	282
86.00	819	159.00	269	229.00	928	346.00	398
87.00	398	160.00	623	230.00	180	352.00	552
91.00	700	161.00	1086	231.00	533	353.00	414
92.00	703	162.00	280	233.90	281	354.10	572
93.00	4882	164.90	1011	234.90	532	365.00	2635
94.00	260	166.00	705	236.00	244	366.00	363
96.10	200	167.10	4271	236.90	635	371.00	184
98.00	3471	168.00	1663	238.90	326	372.10	1054
99.00	3040	169.00	391	241.00	384	373.00	256
99.80	203	169.90	182	242.00	565	383.00	231
101.00	1559	170.90	209	243.00	642	402.00	309
103.00	557	171.90	411	244.10	8969	403.00	521

104.00	1111	173.00	517	245.00	1220	404.00	259
105.00	906	174.00	770	246.00	1808	421.10	382
107.00	13229	175.00	1846	247.00	454	422.10	507
108.00	2043	176.00	522	248.90	434	423.10	3864
109.10	509	177.00	805	253.00	209	424.10	922
110.00	22664	178.00	322	255.00	47576	441.10	10822
111.00	3622	179.00	3019	256.00	7452	442.10	72672
111.90	403	180.00	2098	257.00	558	443.10	15508
112.90	156	181.00	1058	258.00	2737	444.00	1384
116.00	668	183.90	310	259.10	497		
117.00	9613	185.00	1469	262.80	292		
118.00	636	186.10	11279	264.00	169		

Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\01.D

Date : 30-MAR-2023 10:53

Client ID: DFTPP

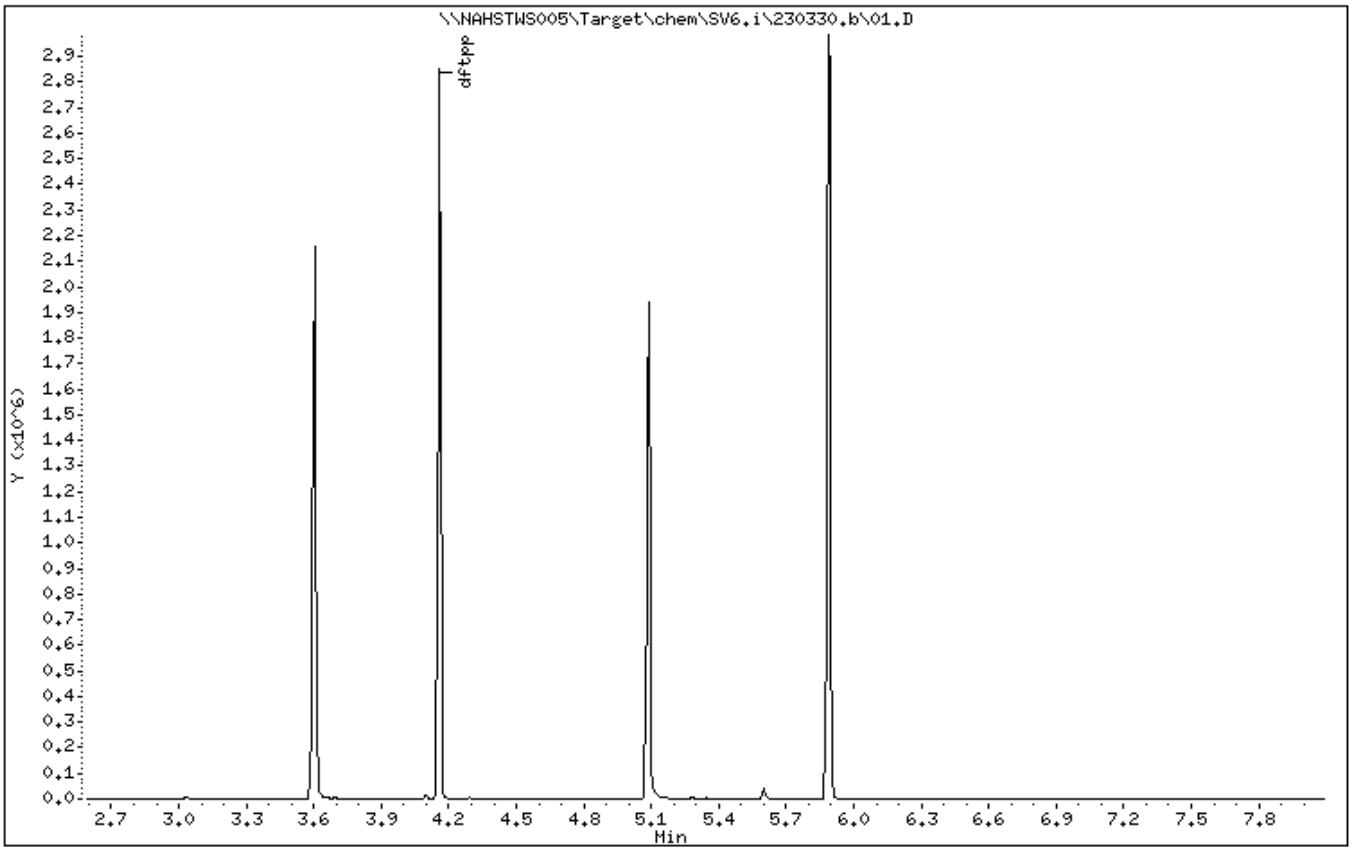
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\01.D

Date : 30-MAR-2023 10:53

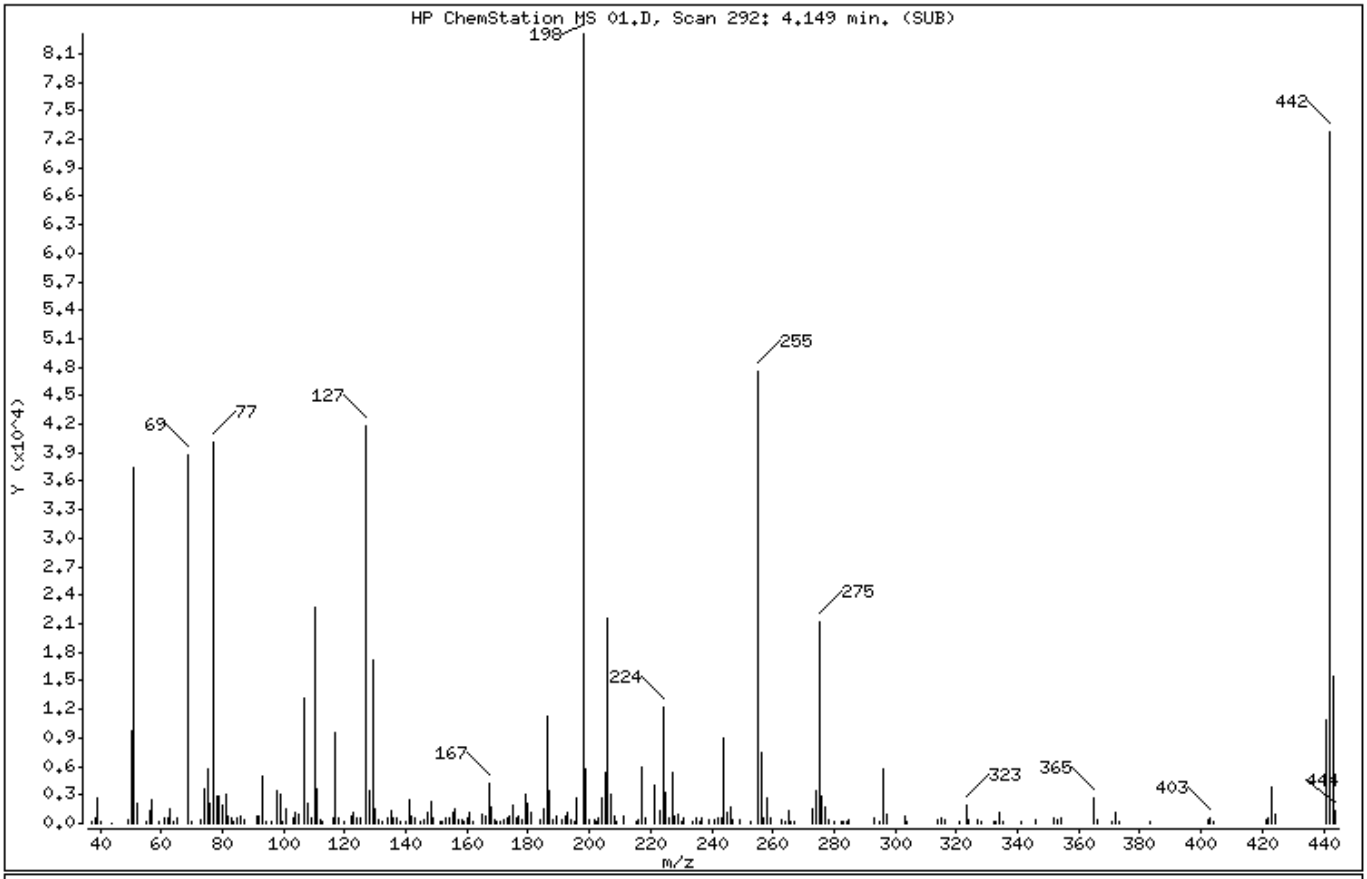
Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	45.13
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.72
70	Less than 2.00% of mass 69	0.24 (0.52)
127	10.00 - 80.00% of mass 198	50.31
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.92
275	10.00 - 60.00% of mass 198	25.59
365	1.00 - 100.00% of mass 198	3.17
441	Present, but less than mass 443	13.03
442	50.00 - 150.00% of mass 198	87.48
443	15.00 - 24.00% of mass 442	18.67 (21.34)

Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\01.D

Date : 30-MAR-2023 10:53

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D

Spectrum: HP ChemStation MS 01.D, Scan 292: 4.149 min. (SUB)

Location of Maximum: 198.00

Number of points: 225

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	174	120.00	168	187.00	3412	264.90	1264
38.20	533	122.00	806	188.10	358	265.90	275
39.10	2745	123.00	1169	189.00	841	266.90	229
40.00	194	124.00	544	191.00	345	273.00	1526
43.90	40	125.00	577	192.00	825	274.10	3479
49.20	465	127.10	41792	193.00	1104	275.00	21256
50.10	9690	128.00	3454	194.10	308	276.00	2826
51.10	37488	129.00	17104	195.20	187	277.00	1703
52.10	2033	130.00	1555	196.00	2635	278.00	438
55.10	224	130.90	326	198.00	83072	279.80	183
56.00	1305	132.00	249	199.00	5747	282.10	191
57.00	2525	134.00	567	199.90	436	282.90	175
59.10	210	135.00	1376	201.60	420	284.00	180
61.00	493	136.00	501	202.20	183	285.00	297
62.00	580	137.10	668	202.90	561	293.00	527
63.10	1488	137.90	155	204.00	2756	295.00	187
64.00	274	140.10	194	205.10	5274	296.00	5666
65.00	608	141.00	2426	206.10	21672	297.00	927
69.00	38808	142.00	827	207.10	2988	303.00	759
70.00	203	143.00	568	208.00	808	304.00	215
73.10	335	145.00	164	209.00	226	313.90	292
74.10	3698	146.00	359	211.10	816	315.10	652
75.00	5725	147.00	1054	215.10	235	316.00	327
76.10	2093	148.00	2307	216.10	440	321.00	219
77.10	40016	149.00	509	217.00	5827	323.10	1972
78.10	2782	151.00	240	218.00	638	324.00	301
79.00	2804	151.90	218	221.00	4080	327.00	403
80.00	2003	153.00	647	223.00	1408	328.00	199
81.00	3000	154.00	491	224.10	12205	332.00	182
82.00	734	155.10	1179	225.10	3179	333.00	226
83.00	608	156.10	1567	226.10	480	334.00	1204
83.80	203	157.00	378	227.00	5356	335.00	271
84.90	489	158.10	411	228.00	680	341.00	282
86.00	819	159.00	269	229.00	928	346.00	398
87.00	398	160.00	623	230.00	180	352.00	552

Date : 30-MAR-2023 10:53

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 292: 4.149 min, (SUB)
Location of Maximum: 198.00
Number of points: 225

m/z	Y	m/z	Y	m/z	Y	m/z	Y
91.00	700	161.00	1086	231.00	533	353.00	414
92.00	703	162.00	280	233.90	281	354.10	572
93.00	4882	164.90	1011	234.90	532	365.00	2635
94.00	260	166.00	705	236.00	244	366.00	363
96.10	200	167.10	4271	236.90	635	371.00	184
98.00	3471	168.00	1663	238.90	326	372.10	1054
99.00	3040	169.00	391	241.00	384	373.00	256
99.80	203	169.90	182	242.00	565	383.00	231
101.00	1559	170.90	209	243.00	642	402.00	309
103.00	557	171.90	411	244.10	8969	403.00	521
104.00	1111	173.00	517	245.00	1220	404.00	259
105.00	906	174.00	770	246.00	1808	421.10	382
107.00	13229	175.00	1846	247.00	454	422.10	507
108.00	2043	176.00	522	248.90	434	423.10	3864
109.10	509	177.00	805	253.00	209	424.10	922
110.00	22664	178.00	322	255.00	47576	441.10	10822
111.00	3622	179.00	3019	256.00	7452	442.10	72672
111.90	403	180.00	2098	257.00	558	443.10	15508
112.90	156	181.00	1058	258.00	2737	444.00	1384
116.00	668	183.90	310	259.10	497		
117.00	9613	185.00	1469	262.80	292		
118.00	636	186.10	11279	264.00	169		

Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\03.D Page 1
Report Date: 30-Mar-2023 13:06

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230330.b\03.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 30-MAR-2023 12:19
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230330.b\DXSIM.m
Meth Date : 30-Mar-2023 13:04 marco.guti Quant Type: ISTD
Cal Date : 26-JAN-2023 19:09 Cal File: 25.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.331	2.331	(1.000)	3344	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.370	3.370	(1.000)	12606	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.766	2.766	(0.821)	2932	0.08000	0.08061(M)
* 86 Acenaphthene-d10	164	4.986	4.986	(1.000)	7756	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.387	4.387	(0.880)	8236	0.08000	0.08090(M)
* 126 Phenanthrene-d10	188	6.393	6.393	(1.000)	12070	0.10000	(M)
* 182 Chrysene-d12	240	8.922	8.922	(1.000)	4808	0.10000	(QM)
$ 158 4-Terphenyl-d14	244	7.975	7.975	(0.894)	6215	0.08000	0.07693(M)
* 198 Perylene-d12	264	10.447	10.447	(1.000)	2850	0.10000	(M)
1 1,4-Dioxane	58	0.885	0.885	(0.380)	854	0.08000	0.07001(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

01184739

Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\03.D

Date : 30-MAR-2023 12:19

Client ID: 14DX-0.08

Instrument: SV6.i

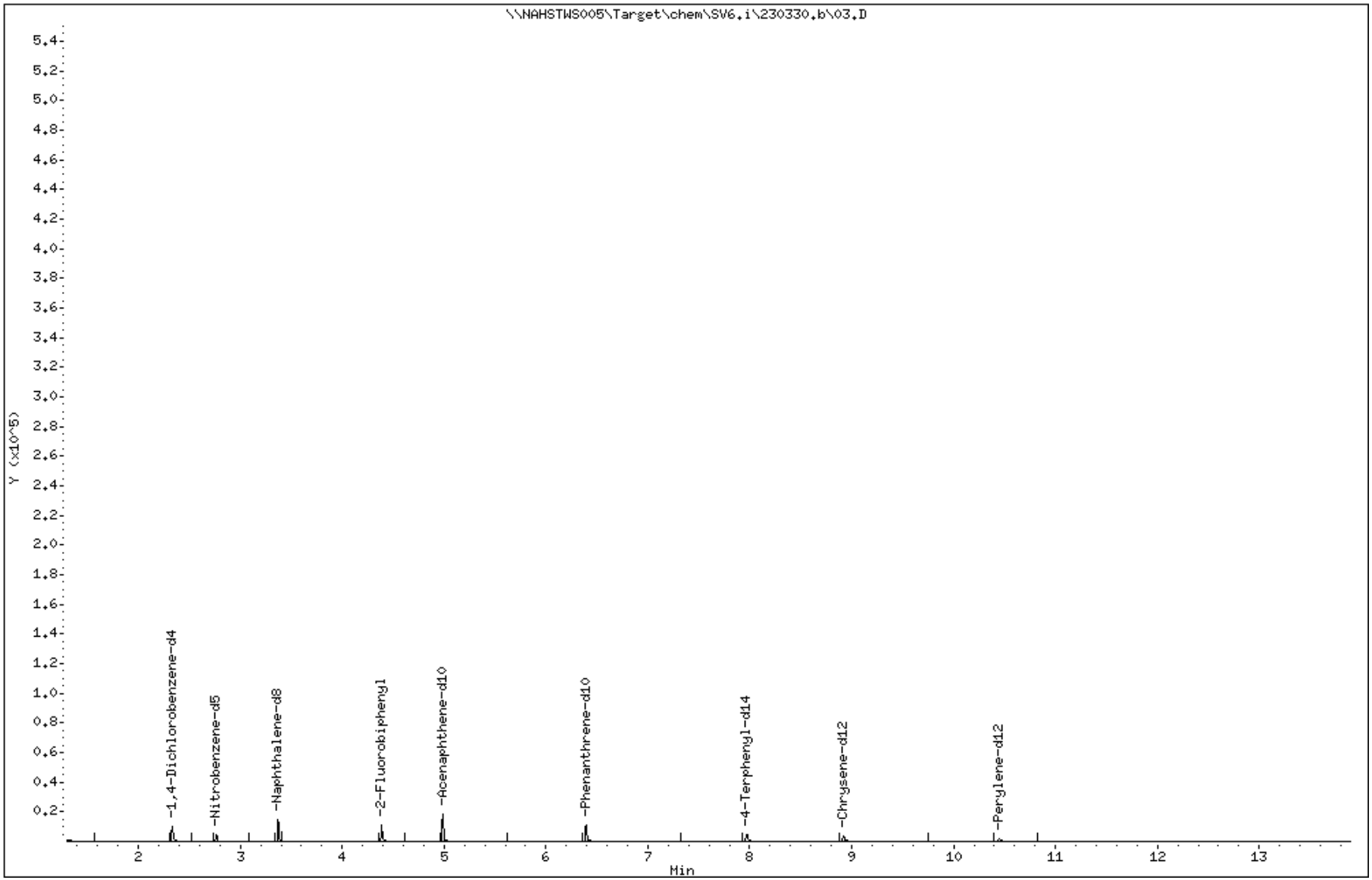
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

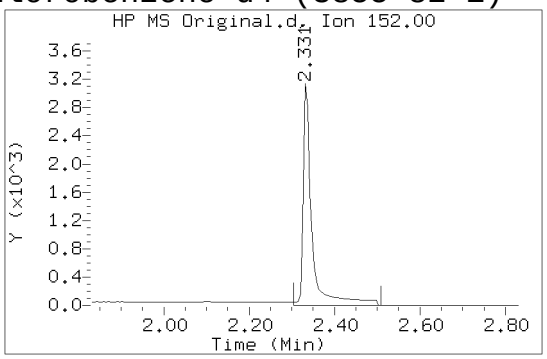


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\03.D
Inj Date : 30-MAR-2023 12:19
InstruID : SV6.i
LabSampID : 14DX-0.08

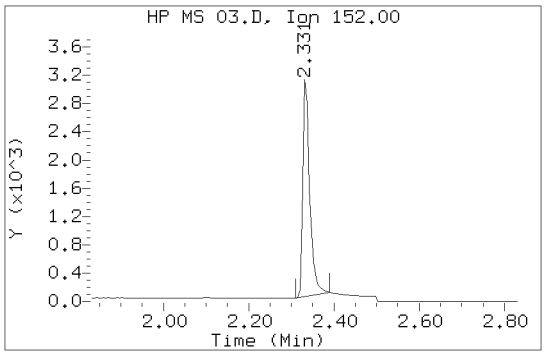
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

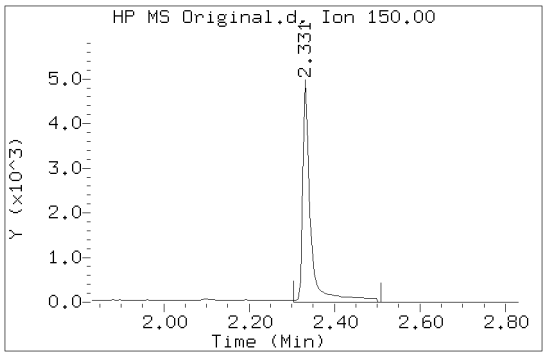
BEFORE
MASS
152
AREA
4376
HEIGHT
3137
30-Mar-2023
12:34
ALSHS
Server



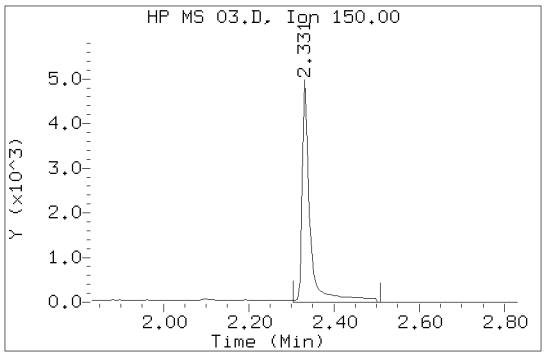
AFTER
MASS
152
AREA
3344
HEIGHT
3067
30-Mar-2023
13:06



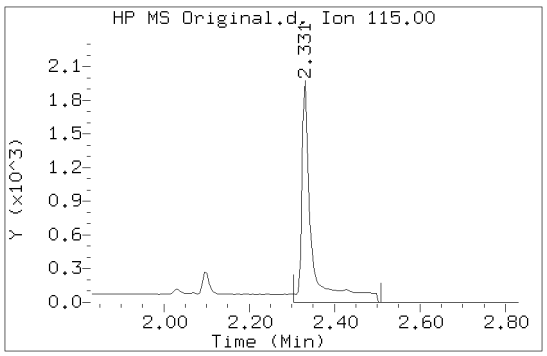
BEFORE
MASS
150
AREA
6311
HEIGHT
4979
30-Mar-2023
12:34
ALSHS
Server



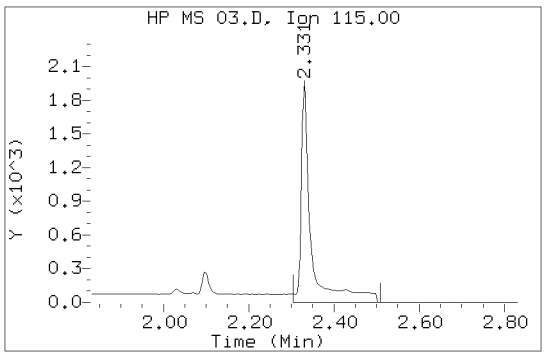
AFTER
MASS
150
AREA
6311
HEIGHT
4979
30-Mar-2023
13:06



BEFORE
MASS
115
AREA
3141
HEIGHT
1975
30-Mar-2023
12:34
ALSHS
Server



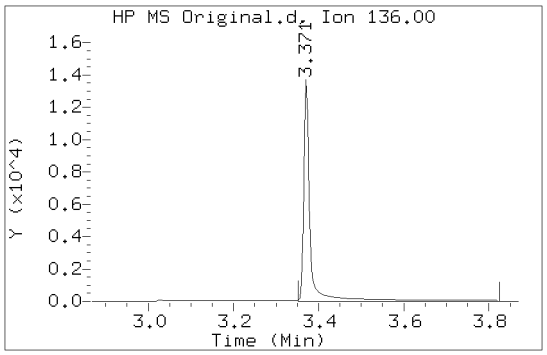
AFTER
MASS
115
AREA
3141
HEIGHT
1975
30-Mar-2023
13:06



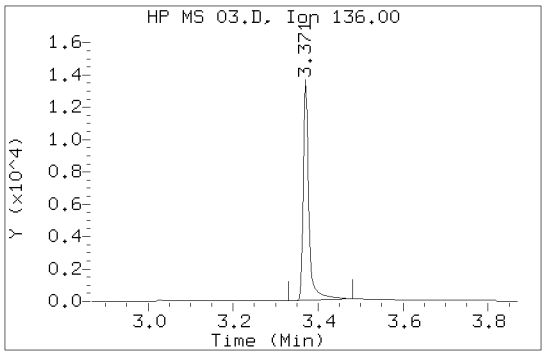
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
15312
HEIGHT
13707
30-Mar-2023
12:34
ALSHS
Server



AFTER
MASS
136
AREA
12606
HEIGHT
13627
30-Mar-2023
13:06



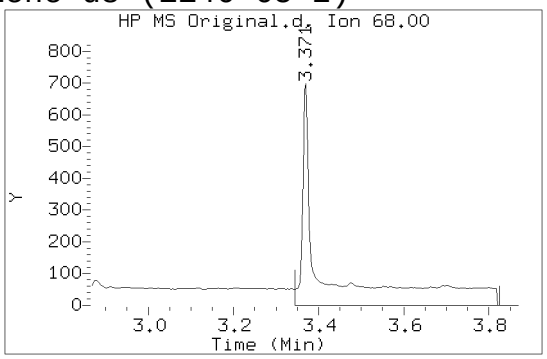
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\03.D
Inj Date : 30-MAR-2023 12:19
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

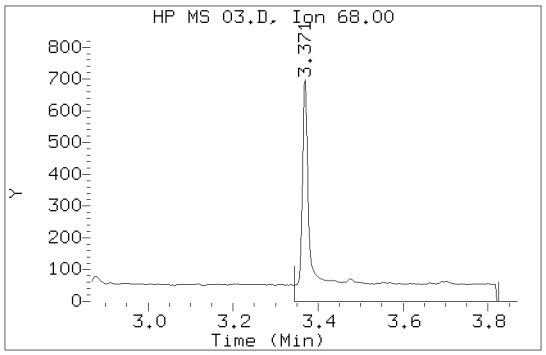
BEFORE

MASS
68
AREA
2225
HEIGHT
698
30-Mar-2023
12:34
ALSHS
Server



AFTER

MASS
68
AREA
2225
HEIGHT
698
30-Mar-2023
13:06

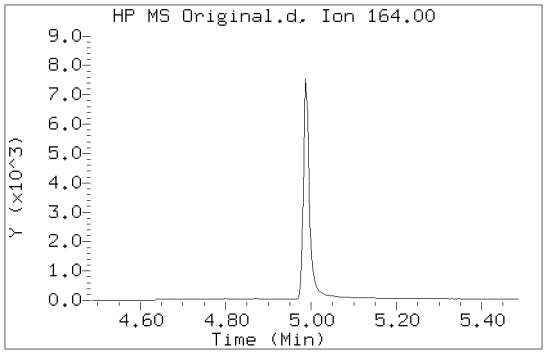


Acenaphthene-d10 (15067-26-2)

Reason Code:

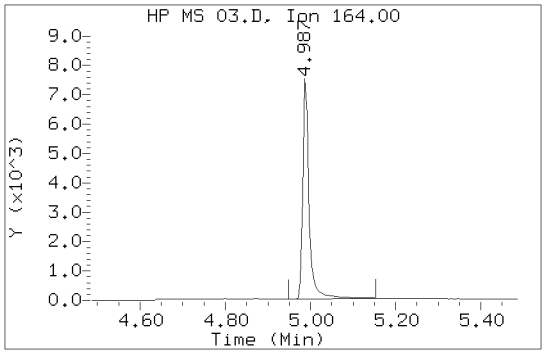
BEFORE

MASS
164
AREA
10119
HEIGHT
7547
30-Mar-2023
12:34
ALSHS
Server



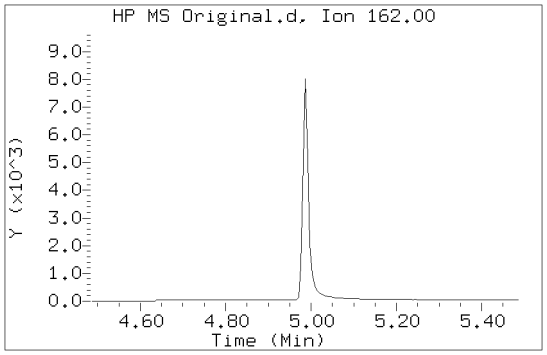
AFTER

MASS
164
AREA
7756
HEIGHT
7491
30-Mar-2023
13:06



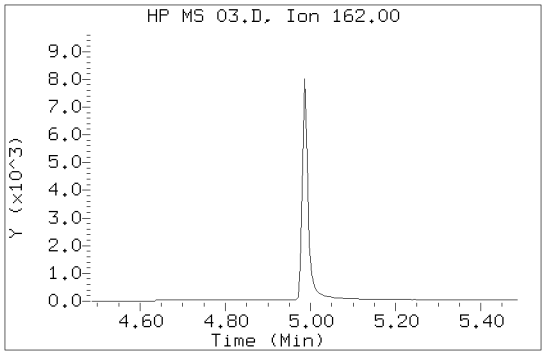
BEFORE

MASS
162
AREA
10123
HEIGHT
8014
30-Mar-2023
12:34
ALSHS
Server



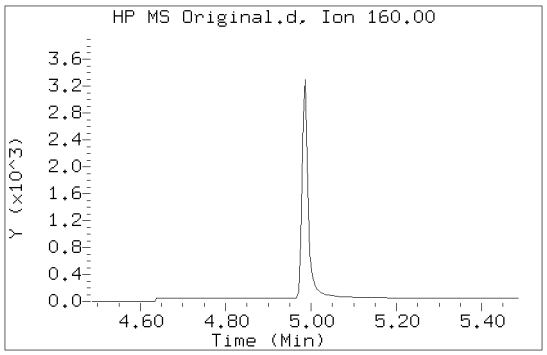
AFTER

MASS
162
AREA
10123
HEIGHT
8014
30-Mar-2023
13:06



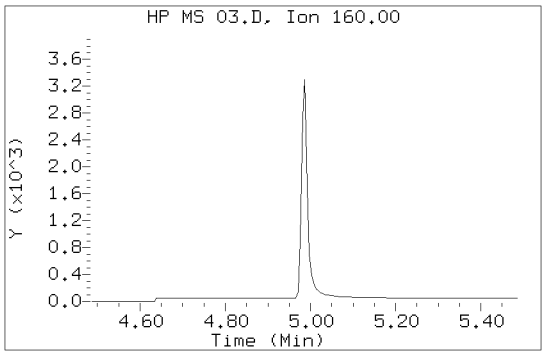
BEFORE

MASS
160
AREA
5388
HEIGHT
3298
30-Mar-2023
12:34
ALSHS
Server



AFTER

MASS
160
AREA
5388
HEIGHT
3298
30-Mar-2023
13:06



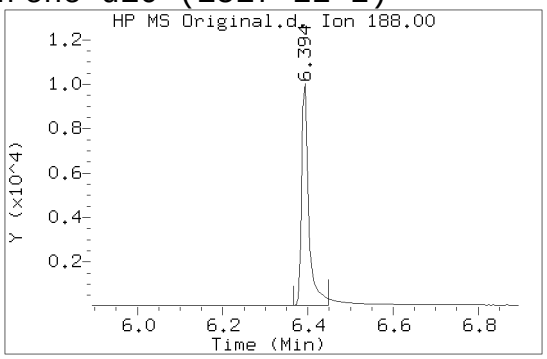
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\03.D
Inj Date : 30-MAR-2023 12:19
InstruID : SV6.i
LabSampID : 14DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

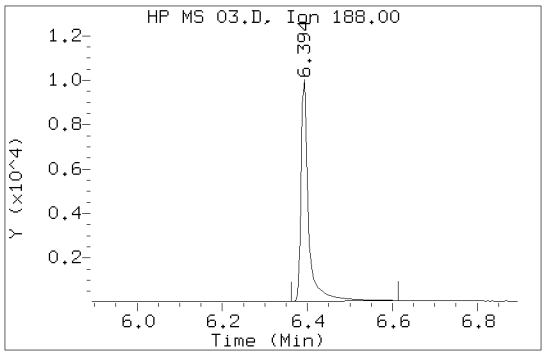
BEFORE

MASS
188
AREA
11432
HEIGHT
9974
30-Mar-2023
12:34
ALSHS
Server



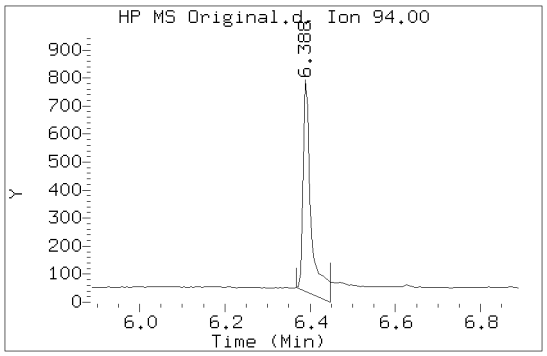
AFTER

MASS
188
AREA
12070
HEIGHT
9969
30-Mar-2023
13:06



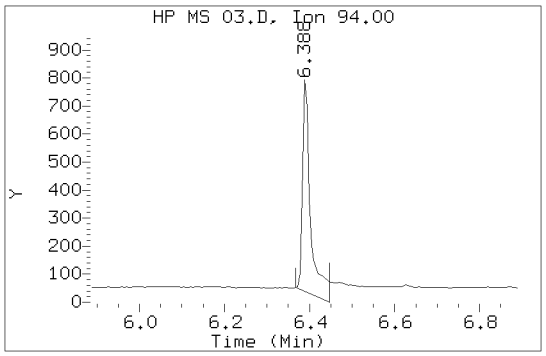
BEFORE

MASS
94
AREA
975
HEIGHT
754
30-Mar-2023
12:34
ALSHS
Server



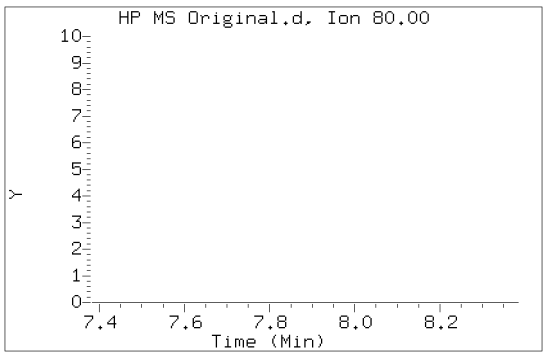
AFTER

MASS
94
AREA
975
HEIGHT
754
30-Mar-2023
13:06



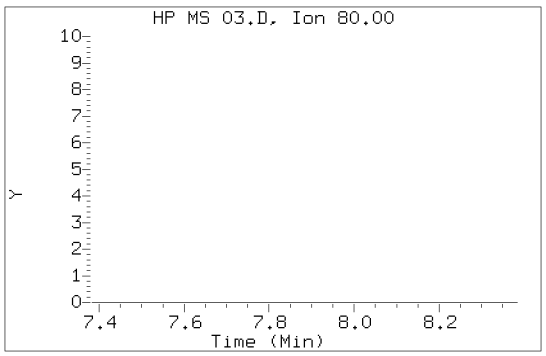
BEFORE

MASS
80
AREA
0
HEIGHT
0
30-Mar-2023
12:34
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
30-Mar-2023
13:06

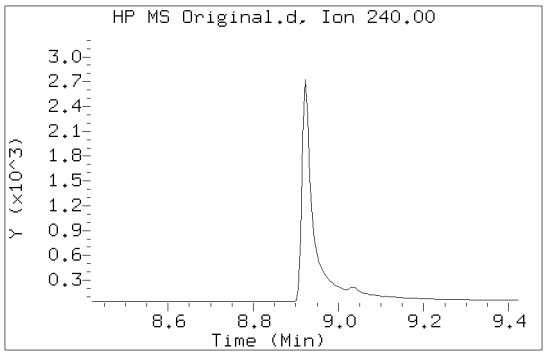


Chrysene-d12 (1719-03-5)

Reason Code:

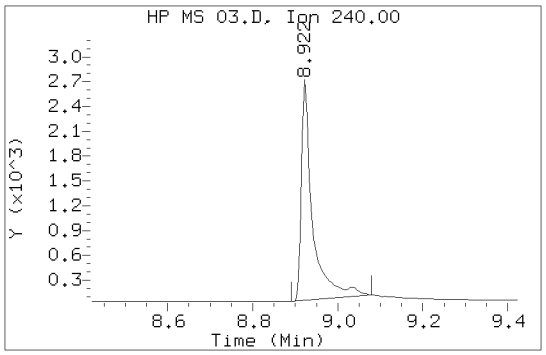
BEFORE

MASS
240
AREA
7906
HEIGHT
2724
30-Mar-2023
12:34
ALSHS
Server



AFTER

MASS
240
AREA
4808
HEIGHT
2665
30-Mar-2023
13:06

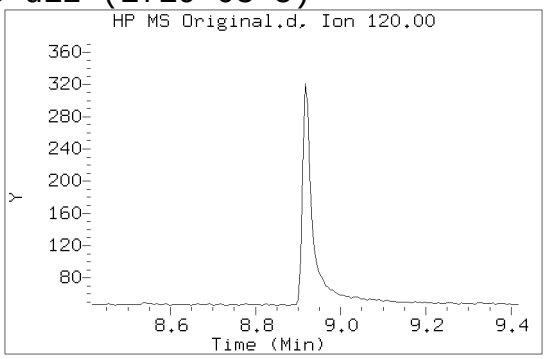


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\03.D
Inj Date : 30-MAR-2023 12:19
InstruID : SV6.i
LabSampID : 14DX-0.08

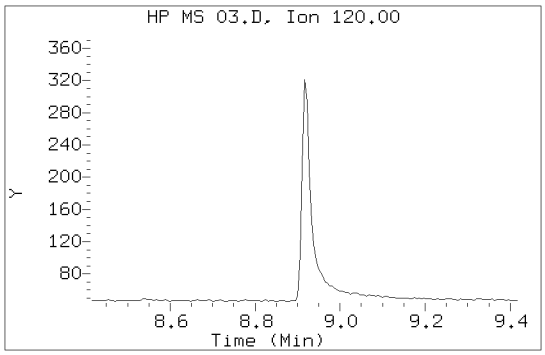
Chrysene-d12 (1719-03-5)

Reason Code:

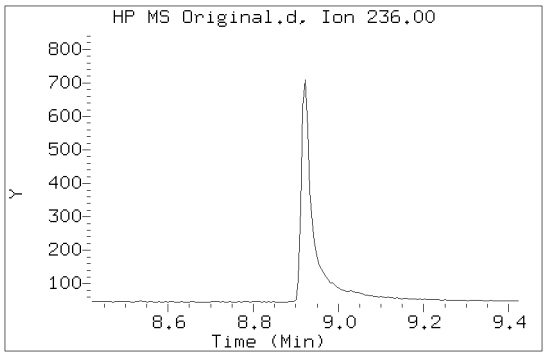
BEFORE
MASS
120
AREA
2519
HEIGHT
321
30-Mar-2023
12:34
ALSHS
Server



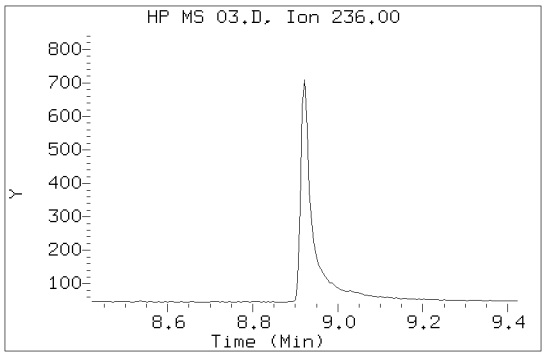
AFTER
MASS
120
AREA
2519
HEIGHT
321
30-Mar-2023
13:06



BEFORE
MASS
236
AREA
3426
HEIGHT
709
30-Mar-2023
12:34
ALSHS
Server



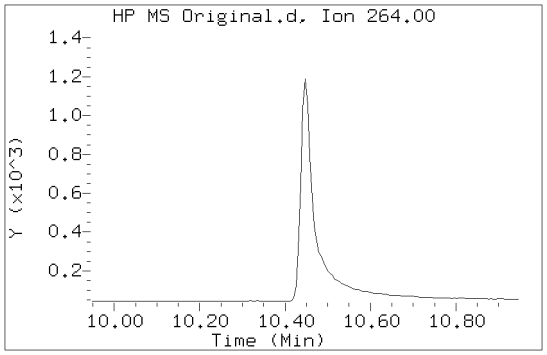
AFTER
MASS
236
AREA
3426
HEIGHT
709
30-Mar-2023
13:06



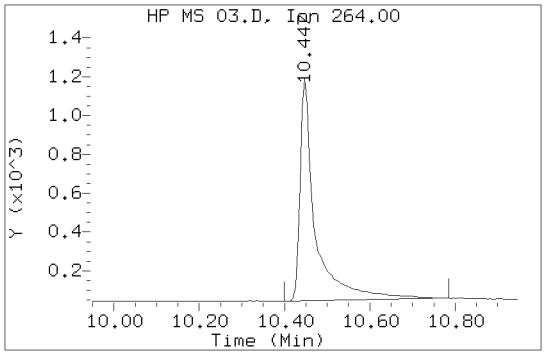
Perylene-d12 (1520-96-3)

Reason Code:

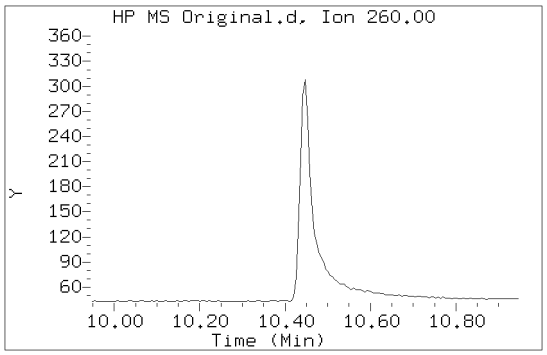
BEFORE
MASS
264
AREA
0
HEIGHT
0
30-Mar-2023
12:34
ALSHS
Server



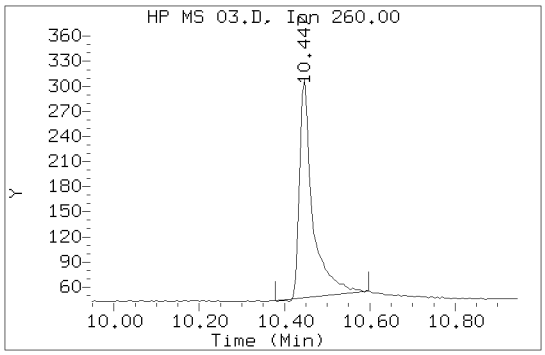
AFTER
MASS
264
AREA
2850
HEIGHT
1142
30-Mar-2023
13:06



BEFORE
MASS
260
AREA
0
HEIGHT
0
30-Mar-2023
12:34
ALSHS
Server



AFTER
MASS
260
AREA
554
HEIGHT
260
30-Mar-2023
13:06



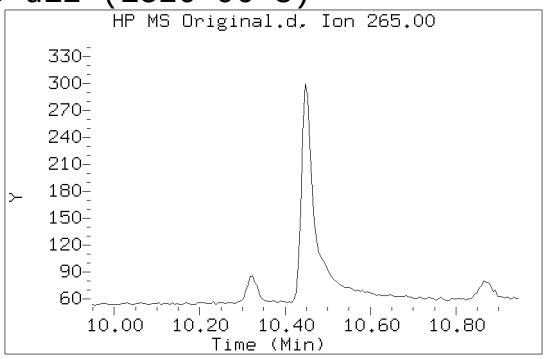
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\03.D
Inj Date : 30-MAR-2023 12:19
InstruID : SV6.i
LabSampID : 14DX-0.08

Perylene-d12 (1520-96-3)

Reason Code:

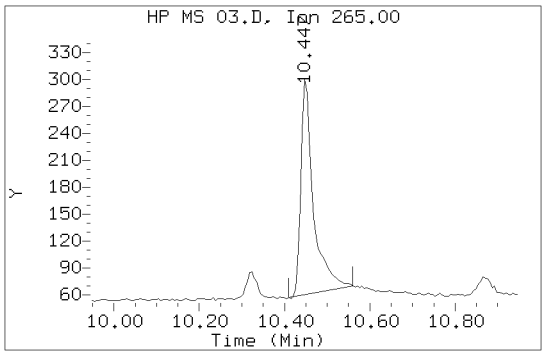
BEFORE

MASS
265
AREA
0
HEIGHT
0
30-Mar-2023
12:34
ALSHS
Server



AFTER

MASS
265
AREA
488
HEIGHT
239
30-Mar-2023
13:06

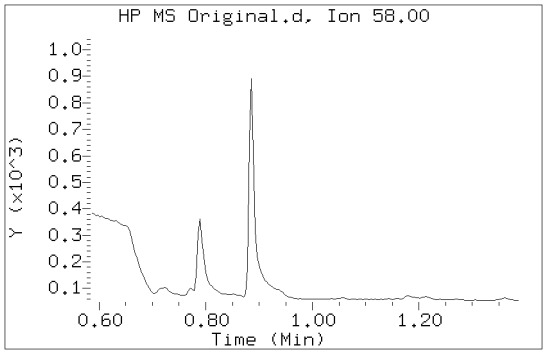


1,4-Dioxane ()

Reason Code:

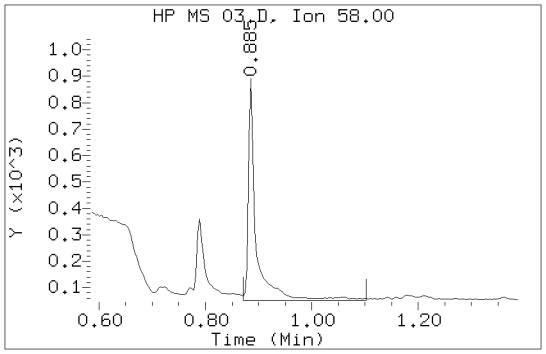
BEFORE

MASS
58
AREA
868
HEIGHT
835
30-Mar-2023
12:34
ALSHS
Server



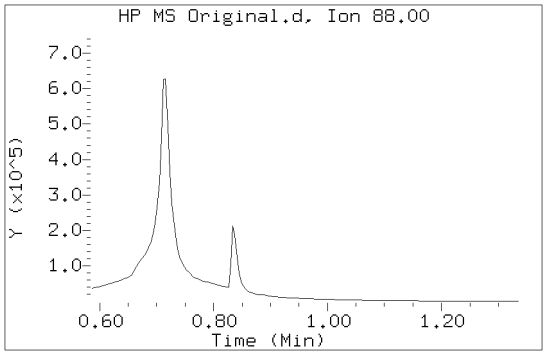
AFTER

MASS
58
AREA
854
HEIGHT
838
30-Mar-2023
13:06



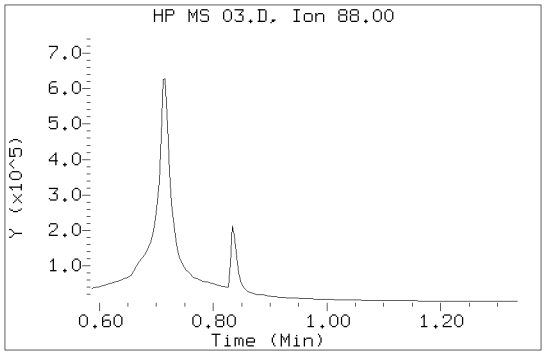
BEFORE

MASS
88
AREA
339586
HEIGHT
212643
30-Mar-2023
12:34
ALSHS
Server



AFTER

MASS
88
AREA
339586
HEIGHT
212643
30-Mar-2023
13:06

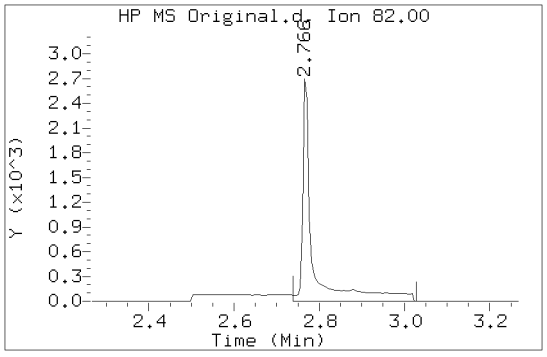


Nitrobenzene-d5 (4165-60-0)

Reason Code:

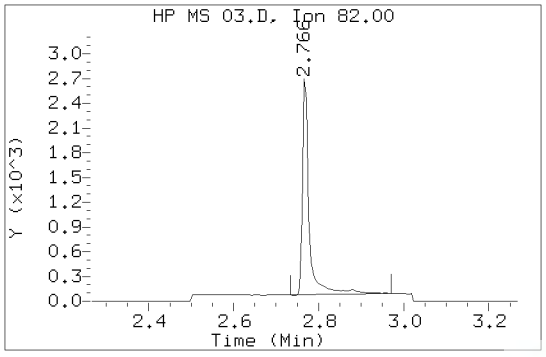
BEFORE

MASS
82
AREA
4374
HEIGHT
2695
30-Mar-2023
12:34
ALSHS
Server



AFTER

MASS
82
AREA
2932
HEIGHT
2617
30-Mar-2023
13:06

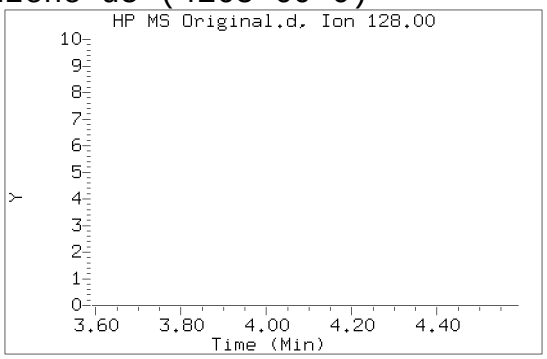


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\03.D
Inj Date : 30-MAR-2023 12:19
InstruID : SV6.i
LabSampID : 14DX-0.08

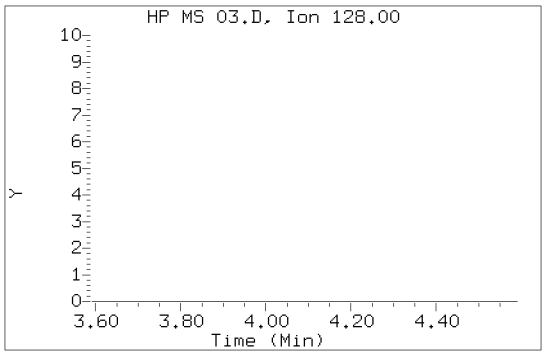
Nitrobenzene-d5 (4165-60-0)

Reason Code:

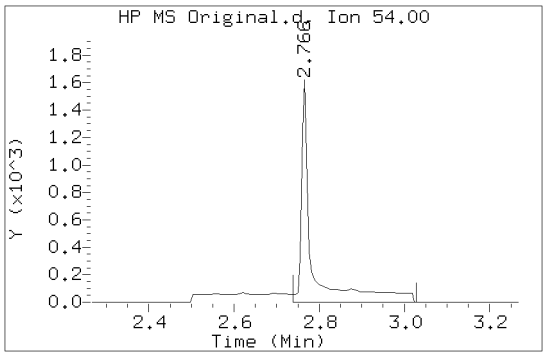
BEFORE
MASS
128
AREA
0
HEIGHT
0
30-Mar-2023
12:34
ALSHS
Server



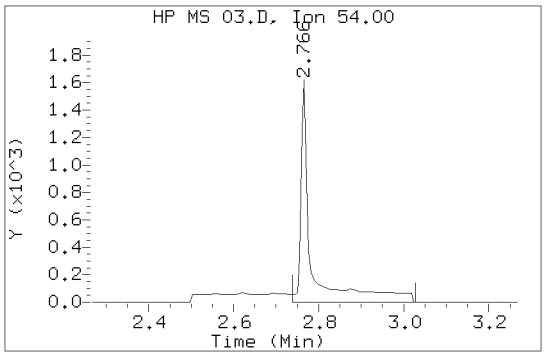
AFTER
MASS
128
AREA
0
HEIGHT
0
30-Mar-2023
13:06



BEFORE
MASS
54
AREA
2750
HEIGHT
1620
30-Mar-2023
12:34
ALSHS
Server



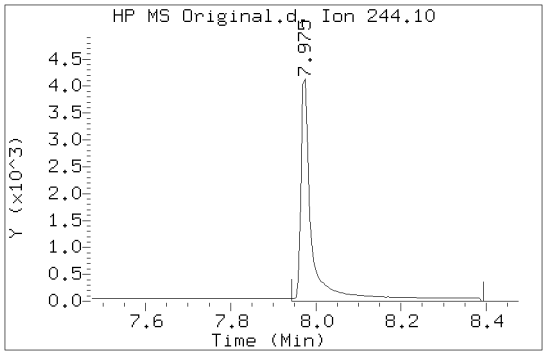
AFTER
MASS
54
AREA
2750
HEIGHT
1620
30-Mar-2023
13:06



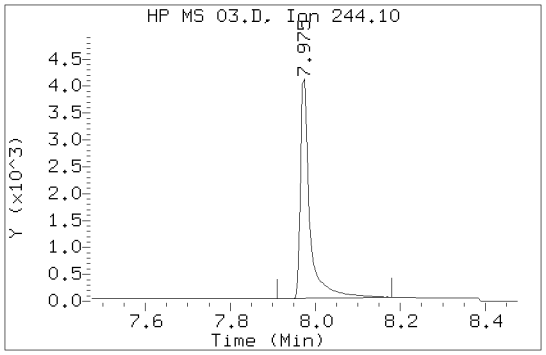
4-Terphenyl-d14 (1718-51-0)

Reason Code:

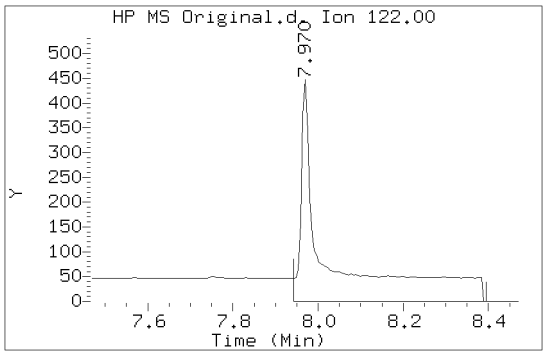
BEFORE
MASS
244.1
AREA
7866
HEIGHT
4135
30-Mar-2023
12:34
ALSHS
Server



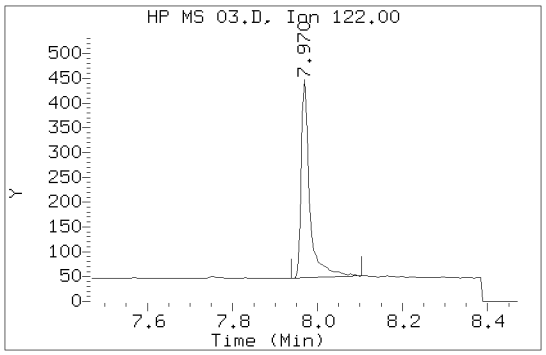
AFTER
MASS
244.1
AREA
6215
HEIGHT
4083
30-Mar-2023
13:06



BEFORE
MASS
122
AREA
1859
HEIGHT
447
30-Mar-2023
12:34
ALSHS
Server



AFTER
MASS
122
AREA
542
HEIGHT
399
30-Mar-2023
13:06



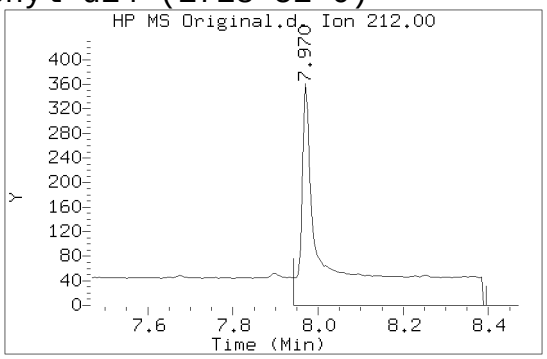
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\03.D
Inj Date : 30-MAR-2023 12:19
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

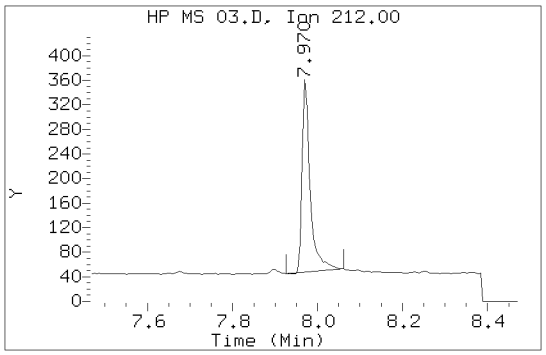
BEFORE

MASS
212
AREA
1689
HEIGHT
361
30-Mar-2023
12:34
ALSHS
Server



AFTER

MASS
212
AREA
407
HEIGHT
313
30-Mar-2023
13:06

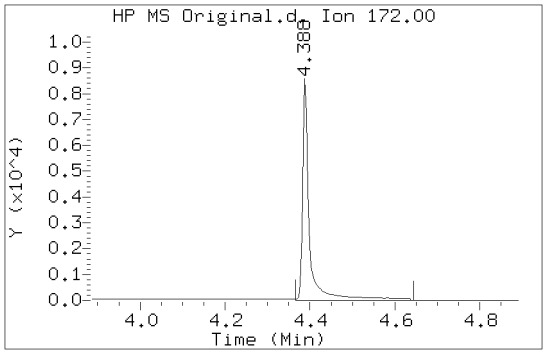


2-Fluorobiphenyl (321-60-8)

Reason Code:

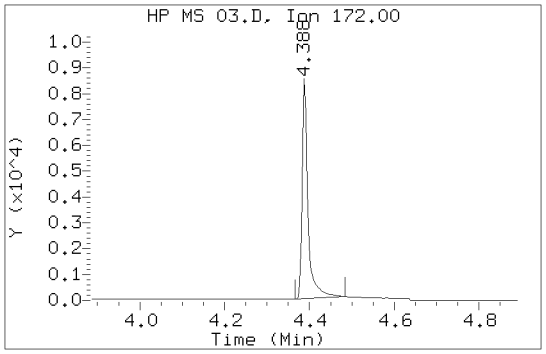
BEFORE

MASS
172
AREA
9883
HEIGHT
8580
30-Mar-2023
12:34
ALSHS
Server



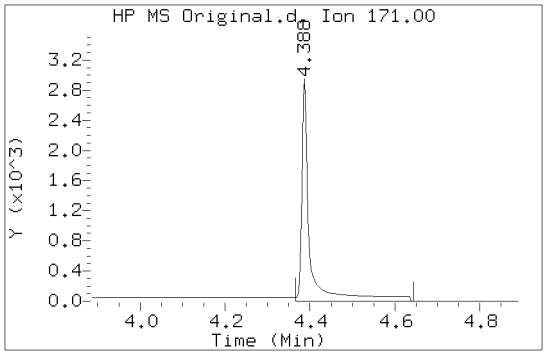
AFTER

MASS
172
AREA
8236
HEIGHT
8513
30-Mar-2023
13:06



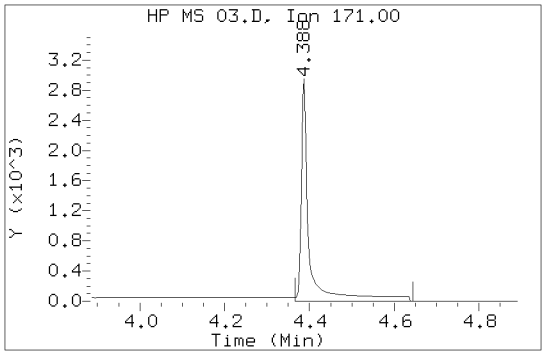
BEFORE

MASS
171
AREA
3952
HEIGHT
2950
30-Mar-2023
12:34
ALSHS
Server



AFTER

MASS
171
AREA
3952
HEIGHT
2950
30-Mar-2023
13:06



Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\05.D Page 1
Report Date: 30-Mar-2023 15:13

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230330.b\05.D
Lab Smp Id: MBLK-191255
Inj Date : 30-MAR-2023 13:29
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-191255
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230330.b\DXSIM.m
Meth Date : 30-Mar-2023 13:04 marco.guti Quant Type: ISTD
Cal Date : 26-JAN-2023 19:09 Cal File: 25.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.336	2.331	(1.000)	3205	0.10000	(aM)
* 45 Naphthalene-d8	136	3.370	3.370	(1.000)	12973	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.771	2.766	(0.822)	2656	0.07096	0.07096(M)
* 86 Acenaphthene-d10	164	4.986	4.986	(1.000)	7926	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.387	4.387	(0.880)	8849	0.08506	0.08506(M)
* 126 Phenanthrene-d10	188	6.388	6.393	(1.000)	13311	0.10000	(M)
* 182 Chrysene-d12	240	8.916	8.922	(1.000)	4386	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.969	7.975	(0.894)	6193	0.08247	0.08247(M)
* 198 Perylene-d12	264	10.441	10.447	(1.000)	2539	0.10000	(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01184748

Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\05.D

Date : 30-MAR-2023 13:29

Client ID:

Instrument: SV6.i

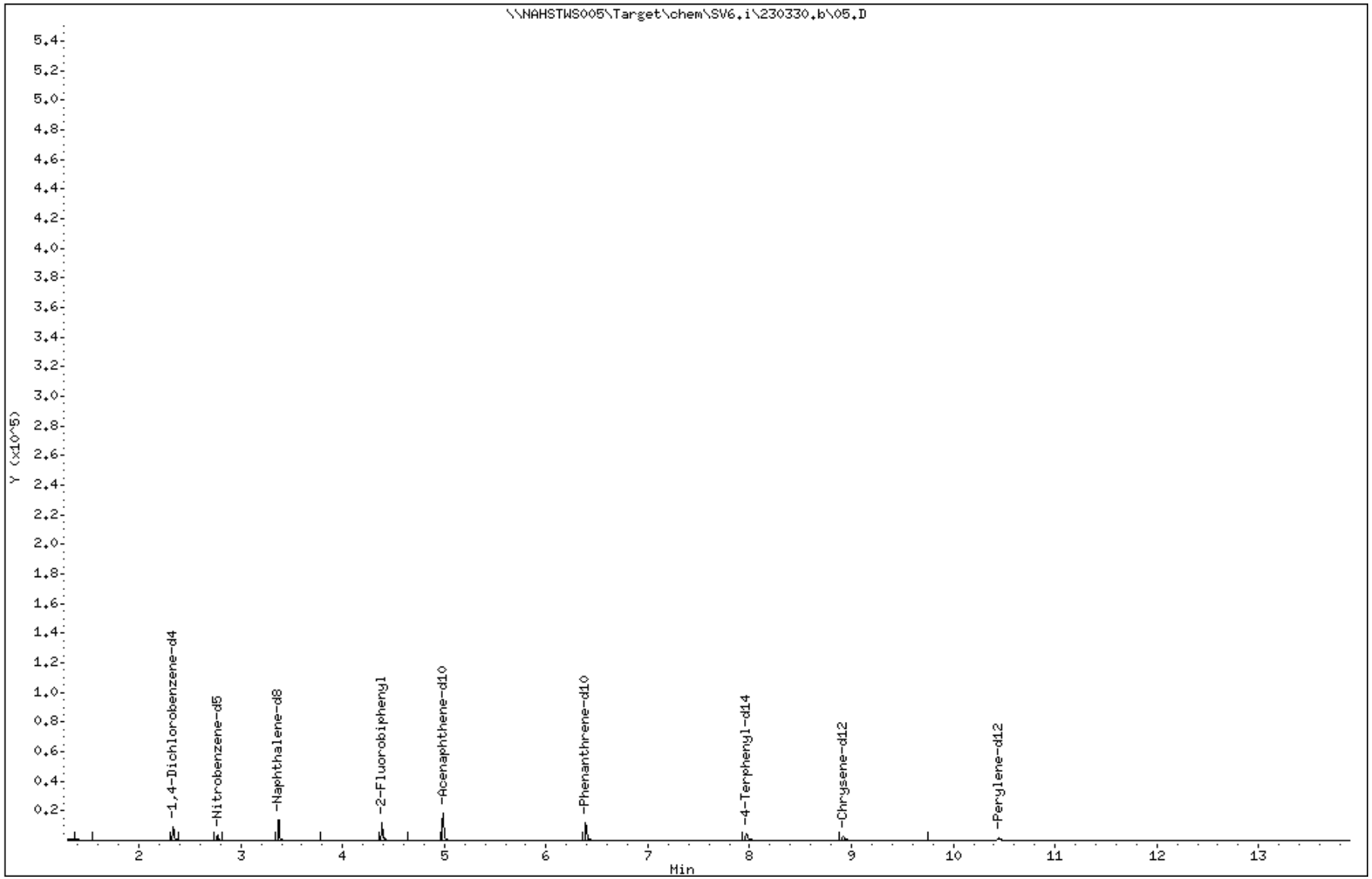
Sample Info: MBLK-191255

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



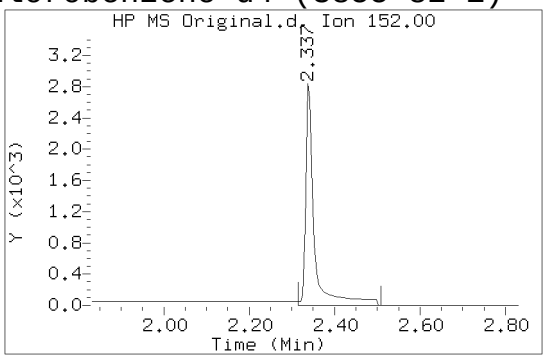
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\05.D
Inj Date : 30-MAR-2023 13:29
InstruID : SV6.i
LabSampID : MBLK-191255

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

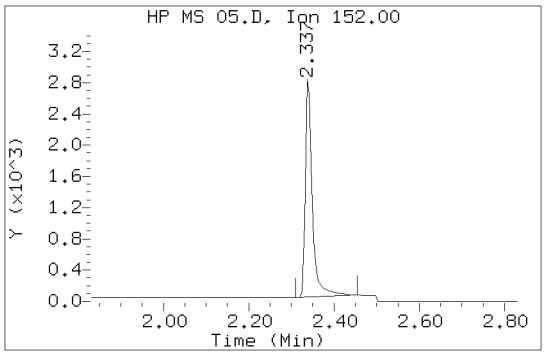
BEFORE

MASS
152
AREA
3944
HEIGHT
2838
30-Mar-2023
13:47
ALSHS
Server



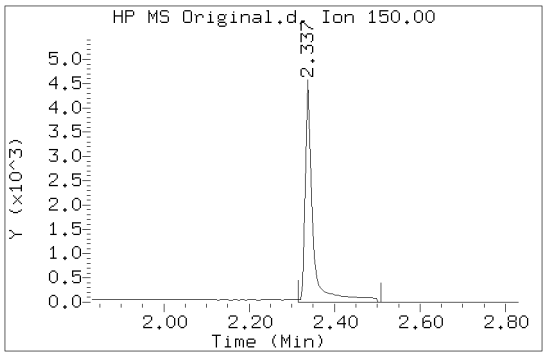
AFTER

MASS
152
AREA
3205
HEIGHT
2785
30-Mar-2023
15:13



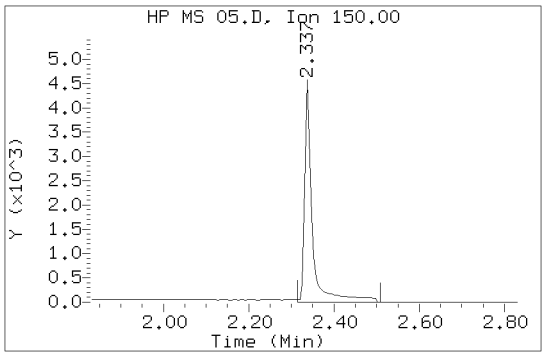
BEFORE

MASS
150
AREA
5666
HEIGHT
4575
30-Mar-2023
13:47
ALSHS
Server



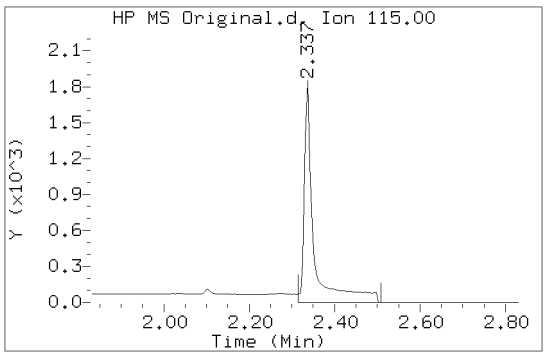
AFTER

MASS
150
AREA
5666
HEIGHT
4575
30-Mar-2023
15:13



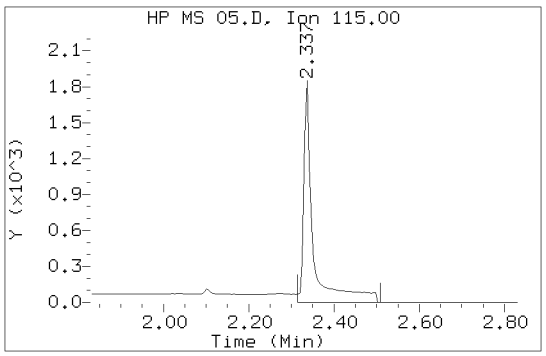
BEFORE

MASS
115
AREA
2795
HEIGHT
1850
30-Mar-2023
13:47
ALSHS
Server



AFTER

MASS
115
AREA
2795
HEIGHT
1850
30-Mar-2023
15:13

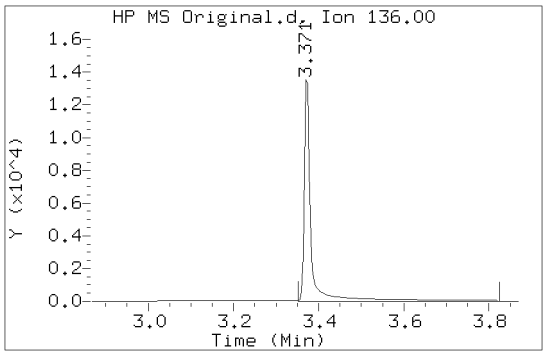


Naphthalene-d8 (1146-65-2)

Reason Code:

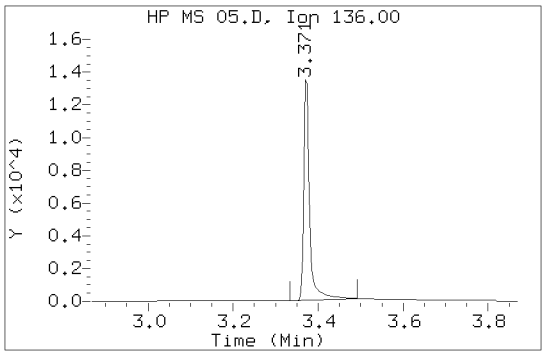
BEFORE

MASS
136
AREA
15953
HEIGHT
13536
30-Mar-2023
13:47
ALSHS
Server



AFTER

MASS
136
AREA
12973
HEIGHT
13458
30-Mar-2023
15:13



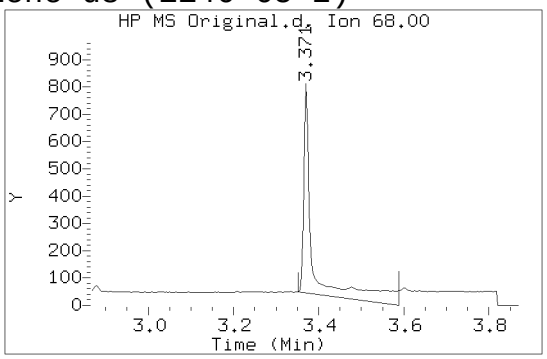
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\05.D
Inj Date : 30-MAR-2023 13:29
InstruID : SV6.i
LabSampID : MBLK-191255

Naphthalene-d8 (1146-65-2)

Reason Code:

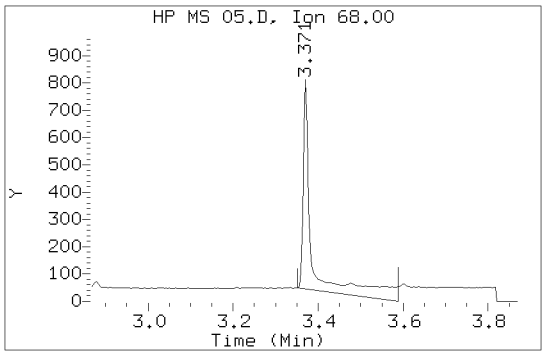
BEFORE

MASS
68
AREA
1118
HEIGHT
766
30-Mar-2023
13:47
ALSHS
Server



AFTER

MASS
68
AREA
1118
HEIGHT
766
30-Mar-2023
15:13

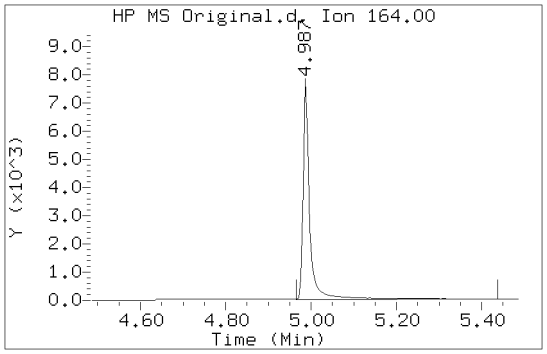


Acenaphthene-d10 (15067-26-2)

Reason Code:

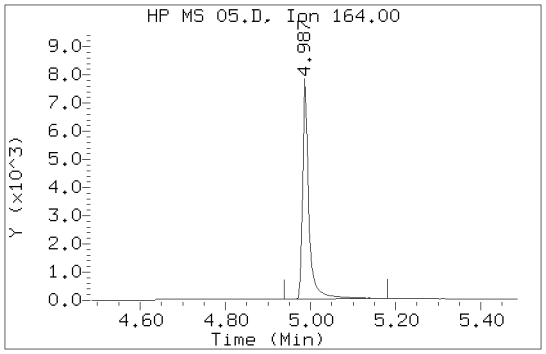
BEFORE

MASS
164
AREA
8628
HEIGHT
7841
30-Mar-2023
13:47
ALSHS
Server



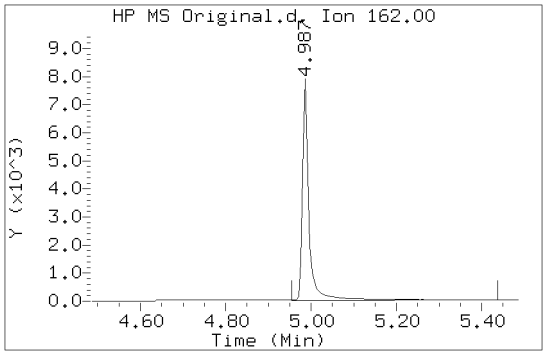
AFTER

MASS
164
AREA
7926
HEIGHT
7811
30-Mar-2023
15:13



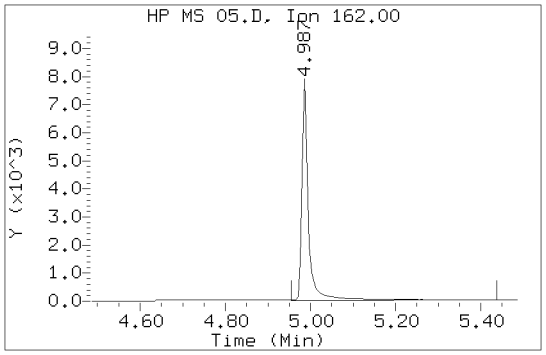
BEFORE

MASS
162
AREA
8763
HEIGHT
7898
30-Mar-2023
13:47
ALSHS
Server



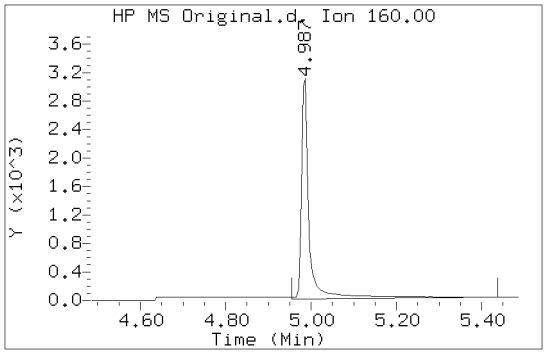
AFTER

MASS
162
AREA
8763
HEIGHT
7898
30-Mar-2023
15:13



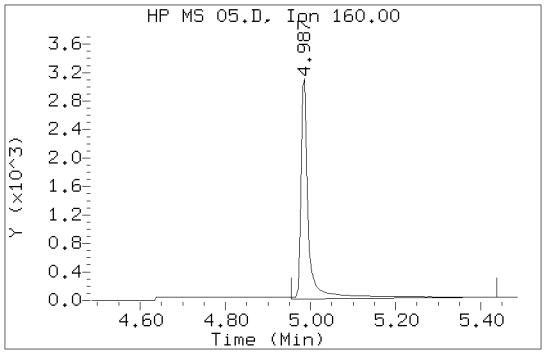
BEFORE

MASS
160
AREA
4017
HEIGHT
3094
30-Mar-2023
13:47
ALSHS
Server



AFTER

MASS
160
AREA
4017
HEIGHT
3094
30-Mar-2023
15:13



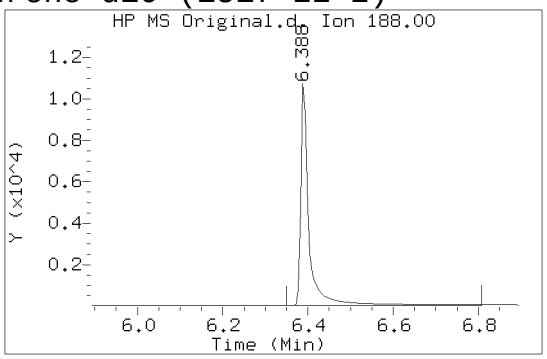
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\05.D
Inj Date : 30-MAR-2023 13:29
InstruID : SV6.i
LabSampID : MBLK-191255

Phenanthrene-d10 (1517-22-2)

Reason Code:

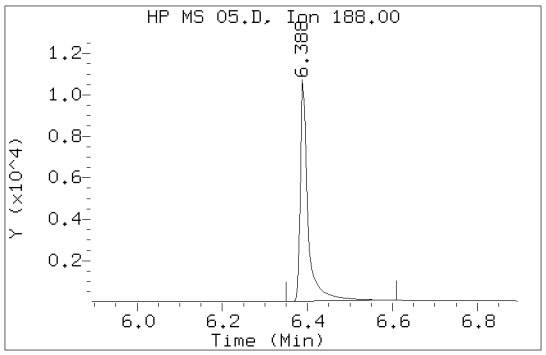
BEFORE

MASS
188
AREA
14075
HEIGHT
10689
30-Mar-2023
13:47
ALSHS
Server



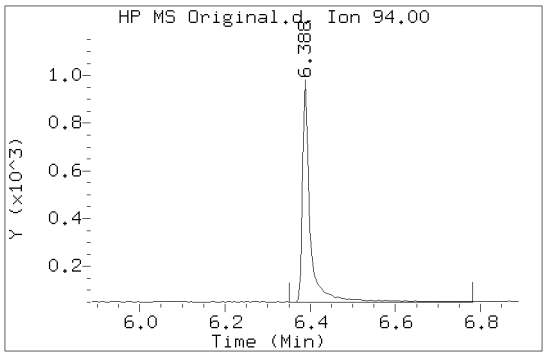
AFTER

MASS
188
AREA
13311
HEIGHT
10681
30-Mar-2023
15:13



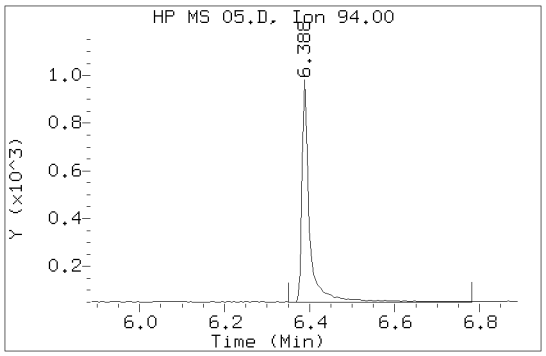
BEFORE

MASS
94
AREA
1153
HEIGHT
930
30-Mar-2023
13:47
ALSHS
Server



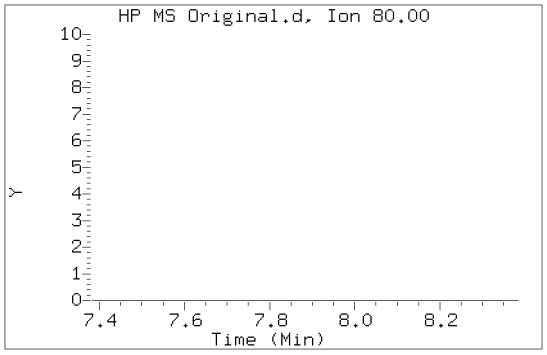
AFTER

MASS
94
AREA
1153
HEIGHT
930
30-Mar-2023
15:13



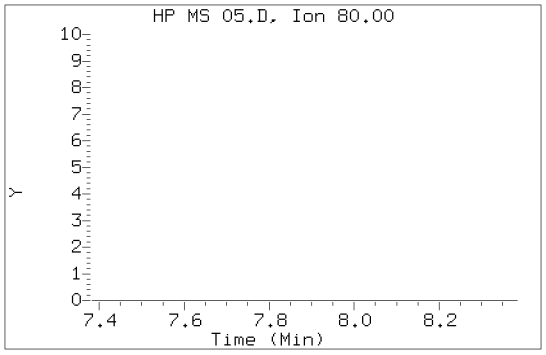
BEFORE

MASS
80
AREA
0
HEIGHT
0
30-Mar-2023
13:47
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
30-Mar-2023
15:13

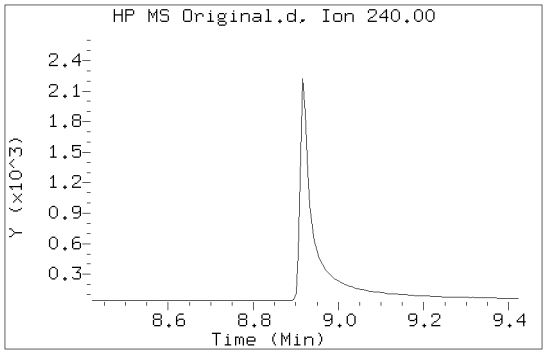


Chrysene-d12 (1719-03-5)

Reason Code:

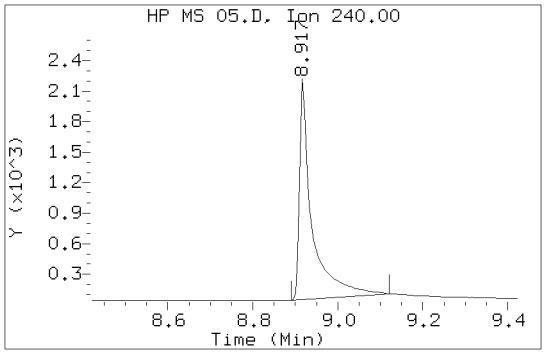
BEFORE

MASS
240
AREA
0
HEIGHT
0
30-Mar-2023
13:47
ALSHS
Server



AFTER

MASS
240
AREA
4386
HEIGHT
2169
30-Mar-2023
15:13

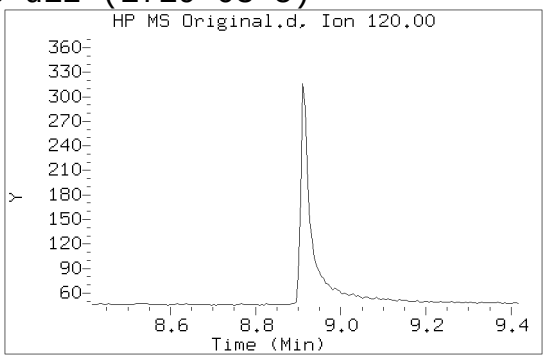


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\05.D
Inj Date : 30-MAR-2023 13:29
InstruID : SV6.i
LabSampID : MBLK-191255

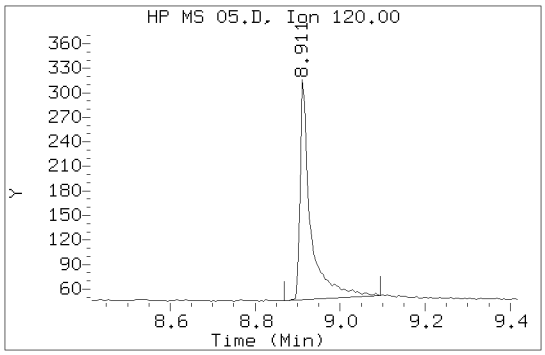
Chrysene-d12 (1719-03-5)

Reason Code:

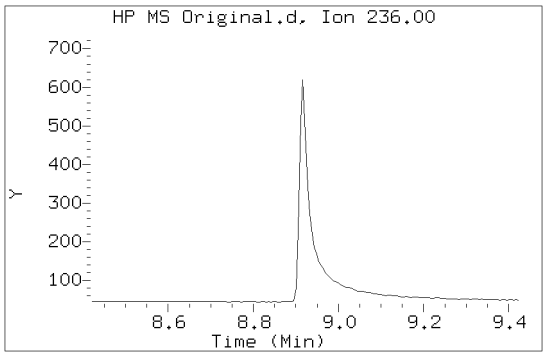
BEFORE
MASS
120
AREA
0
HEIGHT
0
30-Mar-2023
13:47
ALSHS
Server



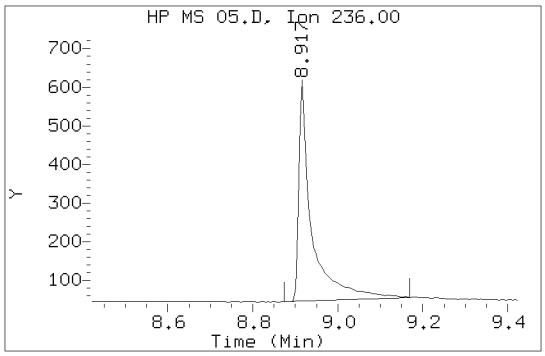
AFTER
MASS
120
AREA
456
HEIGHT
268
30-Mar-2023
15:13



BEFORE
MASS
236
AREA
0
HEIGHT
0
30-Mar-2023
13:47
ALSHS
Server



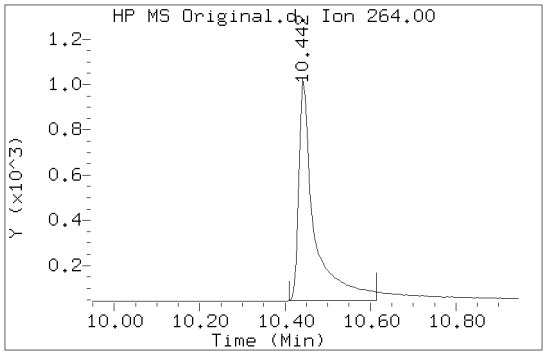
AFTER
MASS
236
AREA
1207
HEIGHT
572
30-Mar-2023
15:13



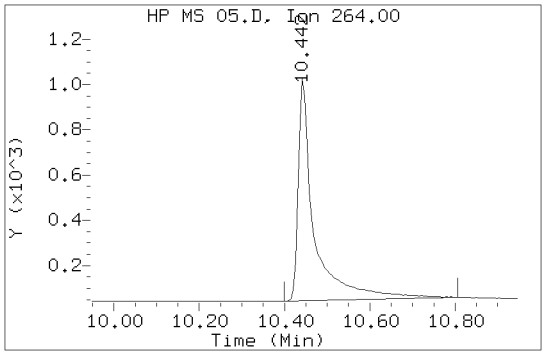
Perylene-d12 (1520-96-3)

Reason Code:

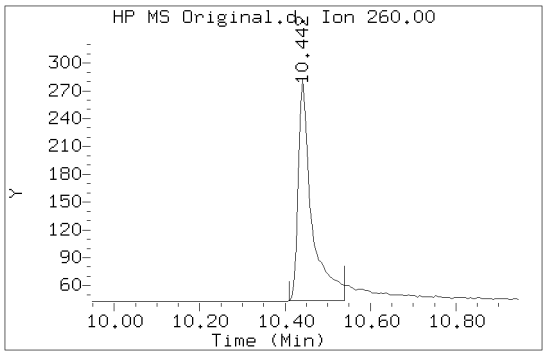
BEFORE
MASS
264
AREA
2457
HEIGHT
980
30-Mar-2023
13:47
ALSHS
Server



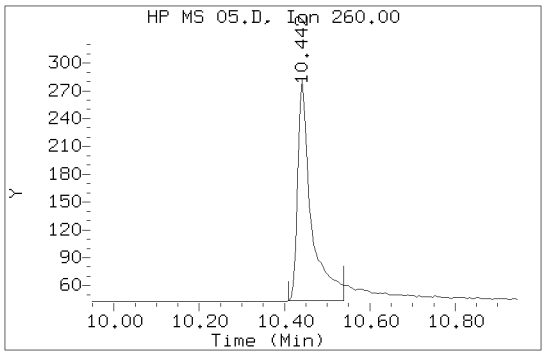
AFTER
MASS
264
AREA
2539
HEIGHT
979
30-Mar-2023
15:13



BEFORE
MASS
260
AREA
521
HEIGHT
238
30-Mar-2023
13:47
ALSHS
Server



AFTER
MASS
260
AREA
521
HEIGHT
238
30-Mar-2023
15:13



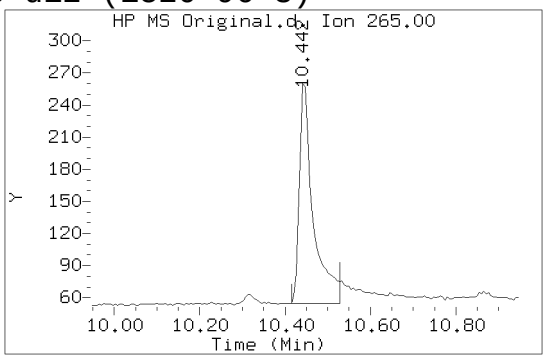
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\05.D
Inj Date : 30-MAR-2023 13:29
InstruID : SV6.i
LabSampID : MBLK-191255

Perylene-d12 (1520-96-3)

Reason Code:

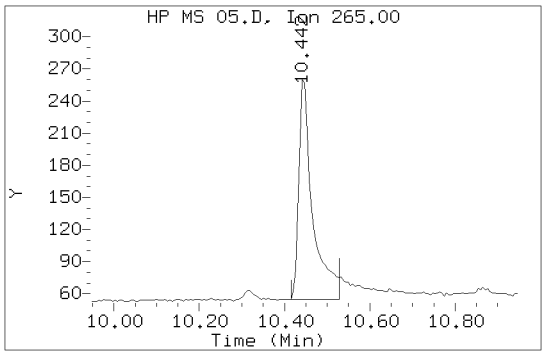
BEFORE

MASS
265
AREA
462
HEIGHT
205
30-Mar-2023
13:47
ALSHS
Server



AFTER

MASS
265
AREA
462
HEIGHT
205
30-Mar-2023
15:13

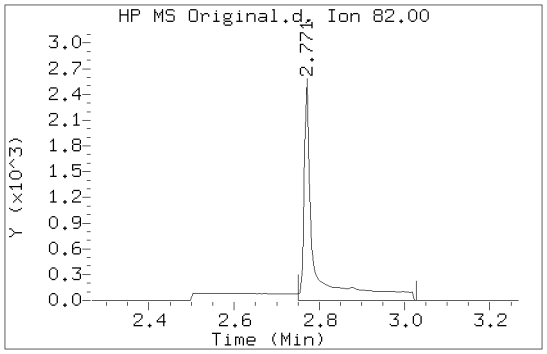


Nitrobenzene-d5 (4165-60-0)

Reason Code:

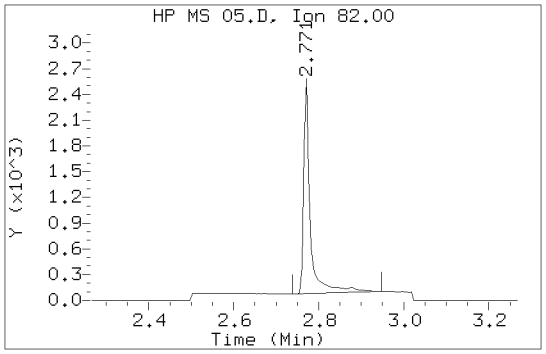
BEFORE

MASS
82
AREA
4177
HEIGHT
2584
30-Mar-2023
13:47
ALSHS
Server



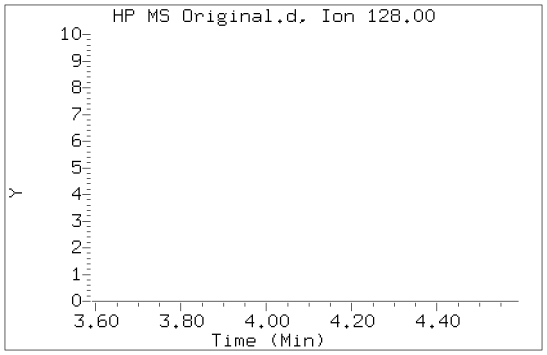
AFTER

MASS
82
AREA
2656
HEIGHT
2501
30-Mar-2023
15:13



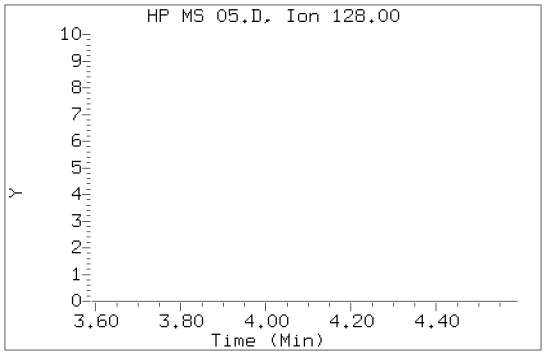
BEFORE

MASS
128
AREA
0
HEIGHT
0
30-Mar-2023
13:47
ALSHS
Server



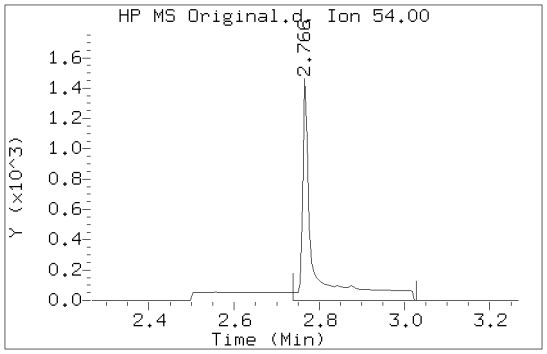
AFTER

MASS
128
AREA
0
HEIGHT
0
30-Mar-2023
15:13



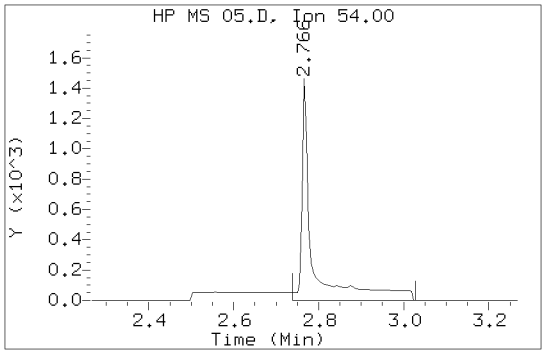
BEFORE

MASS
54
AREA
2511
HEIGHT
1462
30-Mar-2023
13:47
ALSHS
Server



AFTER

MASS
54
AREA
2511
HEIGHT
1462
30-Mar-2023
15:13



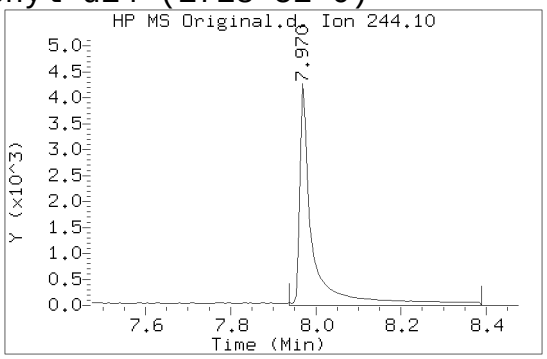
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\05.D
Inj Date : 30-MAR-2023 13:29
InstruID : SV6.i
LabSampID : MBLK-191255

4-Terphenyl-d14 (1718-51-0)

Reason Code:

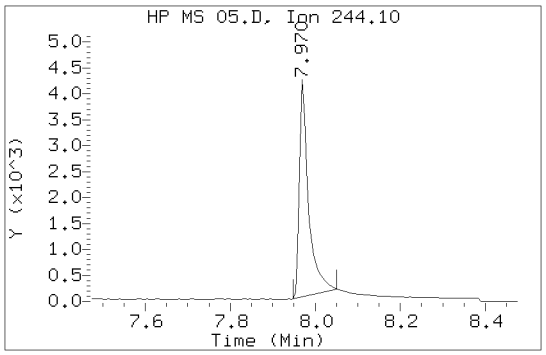
BEFORE

MASS
244.1
AREA
9054
HEIGHT
4273
30-Mar-2023
13:47
ALSHS
Server



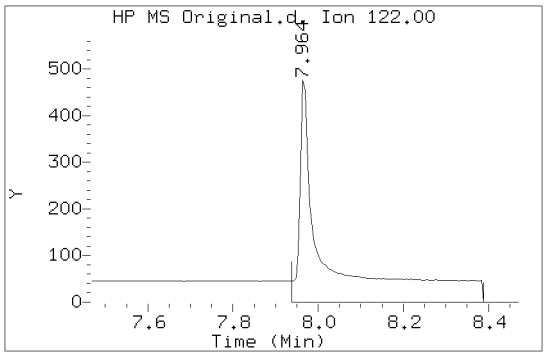
AFTER

MASS
244.1
AREA
6193
HEIGHT
4182
30-Mar-2023
15:13



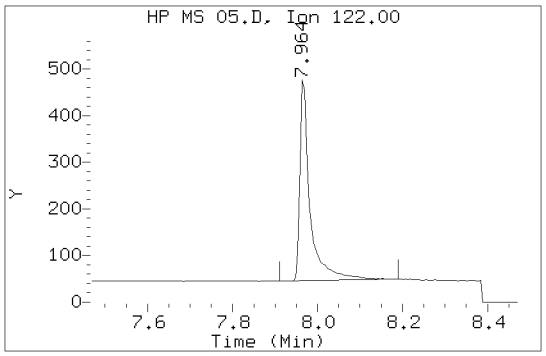
BEFORE

MASS
122
AREA
1997
HEIGHT
477
30-Mar-2023
13:47
ALSHS
Server



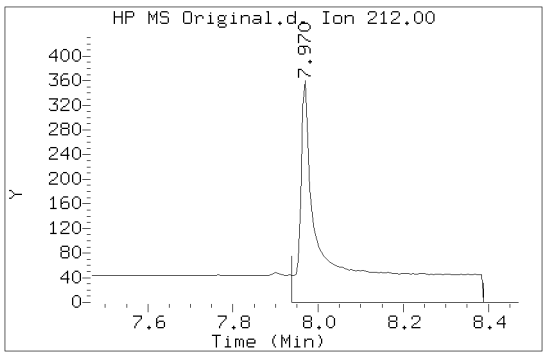
AFTER

MASS
122
AREA
716
HEIGHT
431
30-Mar-2023
15:13



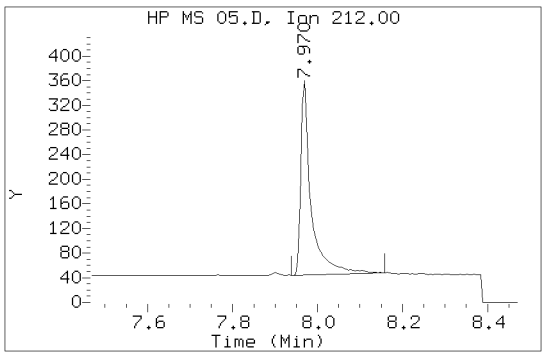
BEFORE

MASS
212
AREA
1773
HEIGHT
360
30-Mar-2023
13:47
ALSHS
Server



AFTER

MASS
212
AREA
525
HEIGHT
315
30-Mar-2023
15:13

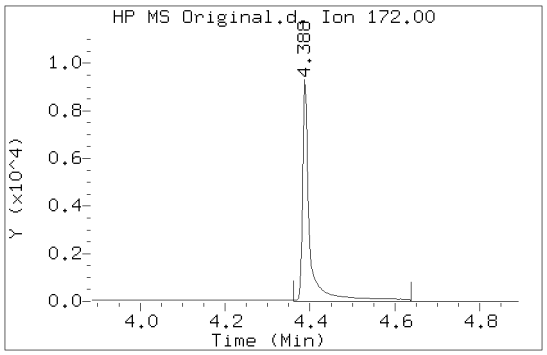


2-Fluorobiphenyl (321-60-8)

Reason Code:

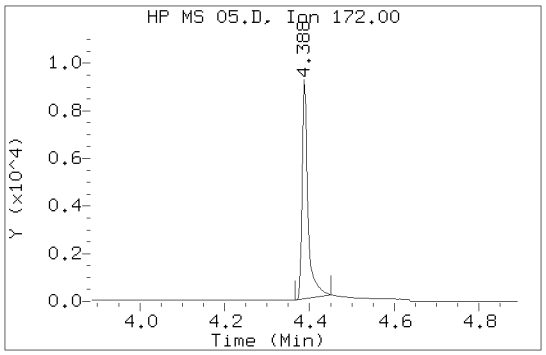
BEFORE

MASS
172
AREA
11209
HEIGHT
9306
30-Mar-2023
13:47
ALSHS
Server



AFTER

MASS
172
AREA
8849
HEIGHT
9197
30-Mar-2023
15:13



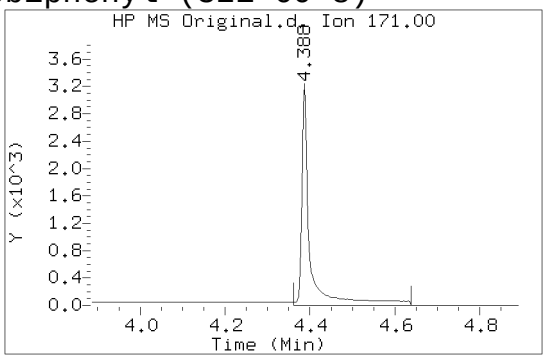
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\05.D
Inj Date : 30-MAR-2023 13:29
InstruID : SV6.i
LabSampID : MBLK-191255

2-Fluorobiphenyl (321-60-8)

Reason Code:

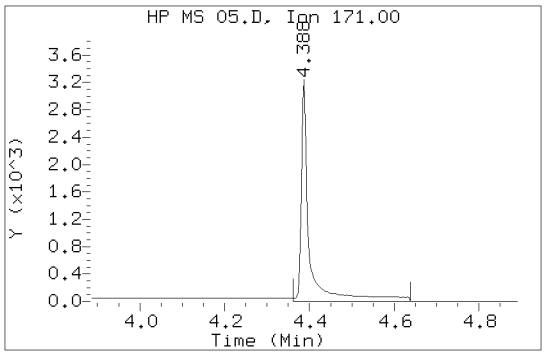
BEFORE

MASS
171
AREA
4350
HEIGHT
3240
30-Mar-2023
13:47
ALSHS
Server



AFTER

MASS
171
AREA
4350
HEIGHT
3240
30-Mar-2023
15:13



Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\06.D Page 1
Report Date: 30-Mar-2023 15:15

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230330.b\06.D
Lab Smp Id: LCS-191255
Inj Date : 30-MAR-2023 13:47
Operator : LG Inst ID: SV6.i
Smp Info : LCS-191255
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230330.b\DXSIM.m
Meth Date : 30-Mar-2023 13:04 marco.guti Quant Type: ISTD
Cal Date : 26-JAN-2023 19:09 Cal File: 25.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.336	2.331	(1.000)	2698	0.10000	(aM)
* 45 Naphthalene-d8	136	3.370	3.370	(1.000)	10803	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.771	2.766	(0.822)	2636	0.08457	0.08457(M)
* 86 Acenaphthene-d10	164	4.987	4.986	(1.000)	6873	0.10000	
$ 69 2-Fluorobiphenyl	172	4.388	4.387	(0.880)	7299	0.08091	0.08091(M)
* 126 Phenanthrene-d10	188	6.388	6.393	(1.000)	10959	0.10000	(M)
* 182 Chrysene-d12	240	8.916	8.922	(1.000)	3794	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.969	7.975	(0.894)	5753	0.08731	0.08730(M)
* 198 Perylene-d12	264	10.442	10.447	(1.000)	2285	0.10000	(M)
1 1,4-Dioxane	58	0.896	0.885	(0.384)	655	0.06655	0.06655(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01184757

Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\06.D

Date : 30-MAR-2023 13:47

Client ID:

Instrument: SV6.i

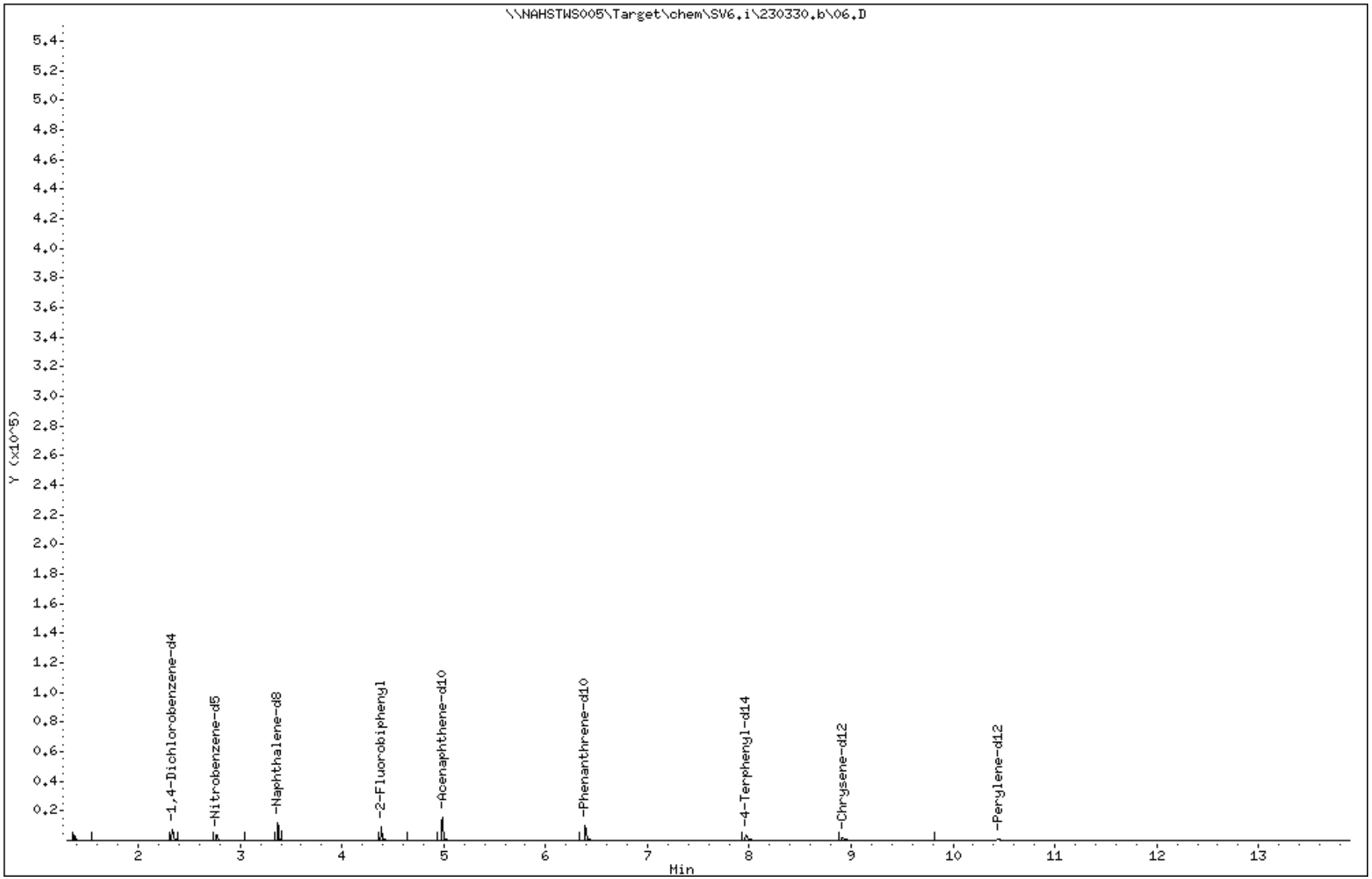
Sample Info: LCS-191255

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



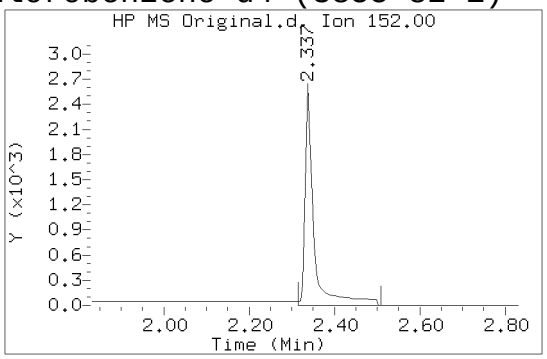
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\06.D
Inj Date : 30-MAR-2023 13:47
InstruID : SV6.i
LabSampID : LCS-191255

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

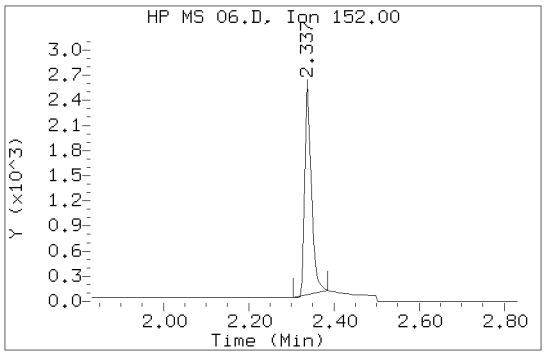
BEFORE

MASS
152
AREA
3714
HEIGHT
2646
30-Mar-2023
14:03
ALSHS
Server



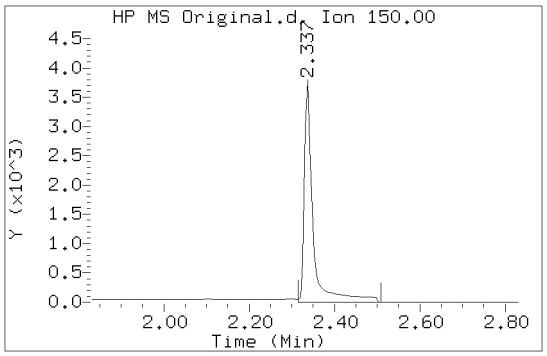
AFTER

MASS
152
AREA
2698
HEIGHT
2565
30-Mar-2023
15:15



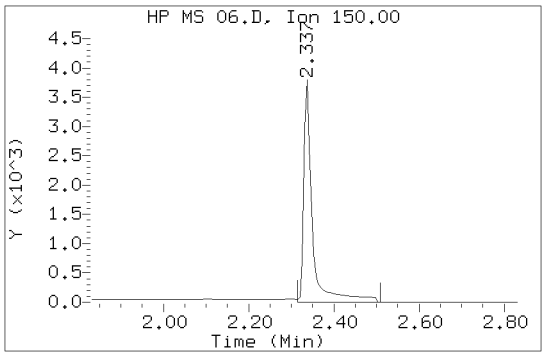
BEFORE

MASS
150
AREA
5325
HEIGHT
3796
30-Mar-2023
14:03
ALSHS
Server



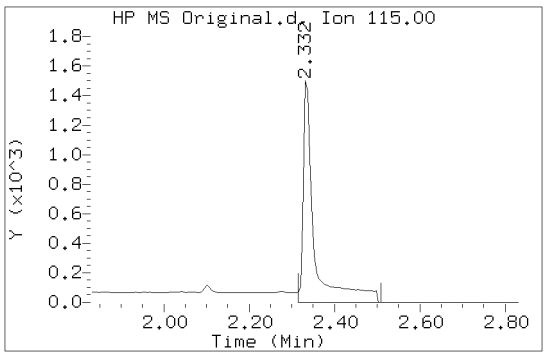
AFTER

MASS
150
AREA
5325
HEIGHT
3796
30-Mar-2023
15:15



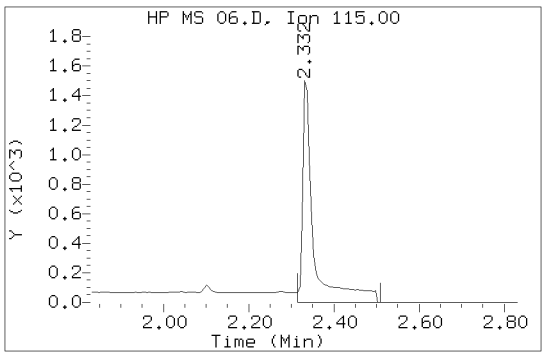
BEFORE

MASS
115
AREA
2653
HEIGHT
1501
30-Mar-2023
14:03
ALSHS
Server



AFTER

MASS
115
AREA
2653
HEIGHT
1501
30-Mar-2023
15:15

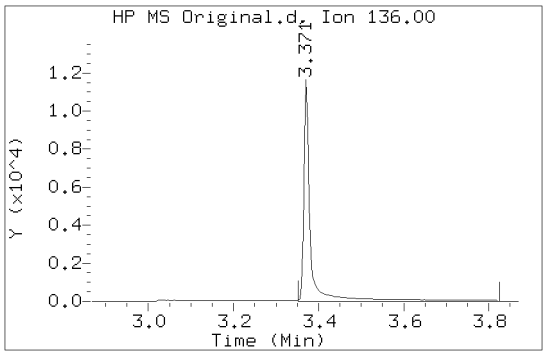


Naphthalene-d8 (1146-65-2)

Reason Code:

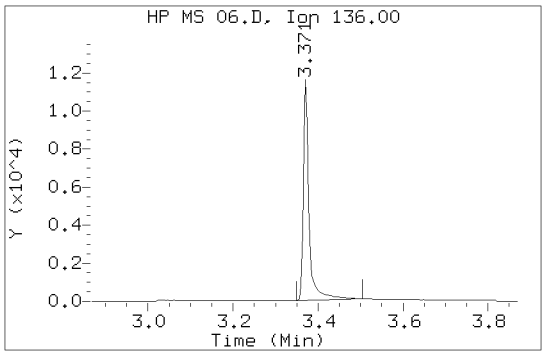
BEFORE

MASS
136
AREA
13362
HEIGHT
11648
30-Mar-2023
14:03
ALSHS
Server



AFTER

MASS
136
AREA
10803
HEIGHT
11585
30-Mar-2023
15:15



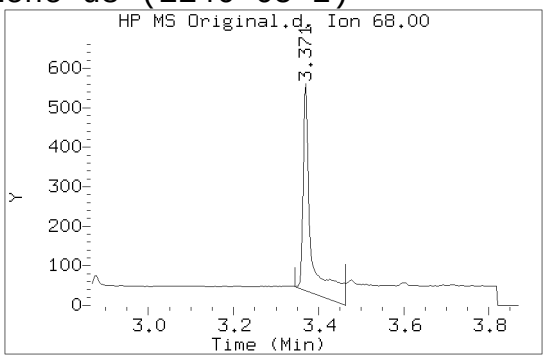
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\06.D
Inj Date : 30-MAR-2023 13:47
InstruID : SV6.i
LabSampID : LCS-191255

Naphthalene-d8 (1146-65-2)

Reason Code:

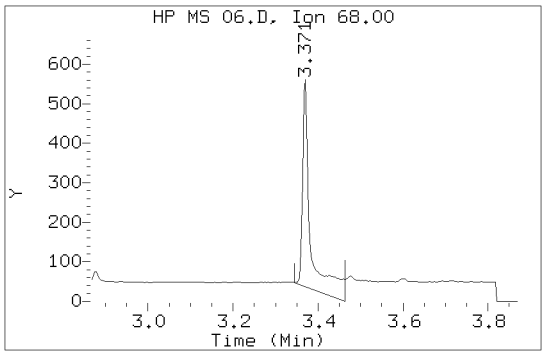
BEFORE

MASS
68
AREA
698
HEIGHT
524
30-Mar-2023
14:03
ALSHS
Server



AFTER

MASS
68
AREA
698
HEIGHT
524
30-Mar-2023
15:15

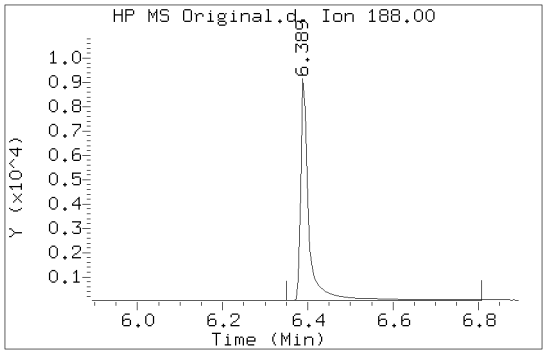


Phenanthrene-d10 (1517-22-2)

Reason Code:

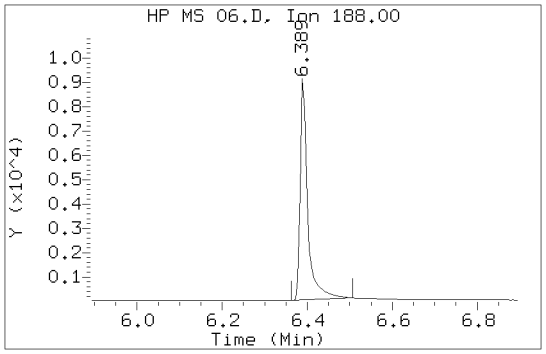
BEFORE

MASS
188
AREA
12138
HEIGHT
9108
30-Mar-2023
14:03
ALSHS
Server



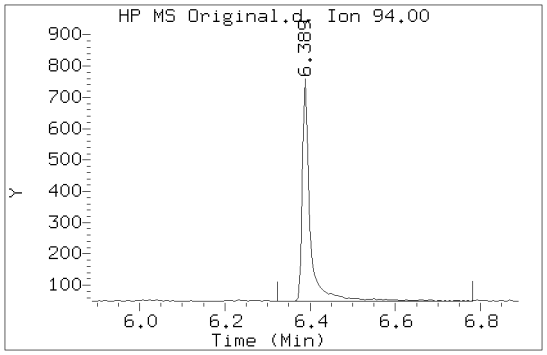
AFTER

MASS
188
AREA
10959
HEIGHT
9088
30-Mar-2023
15:15



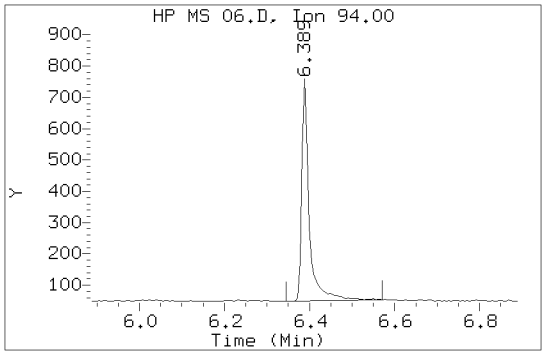
BEFORE

MASS
94
AREA
917
HEIGHT
710
30-Mar-2023
14:03
ALSHS
Server



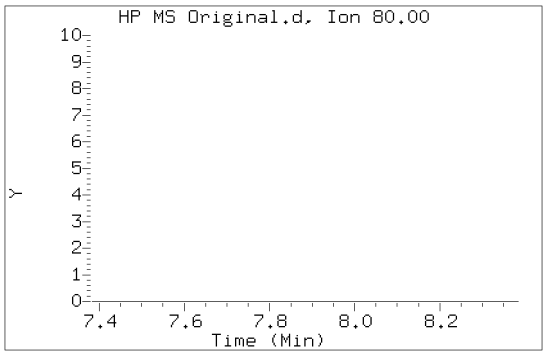
AFTER

MASS
94
AREA
841
HEIGHT
708
30-Mar-2023
15:15



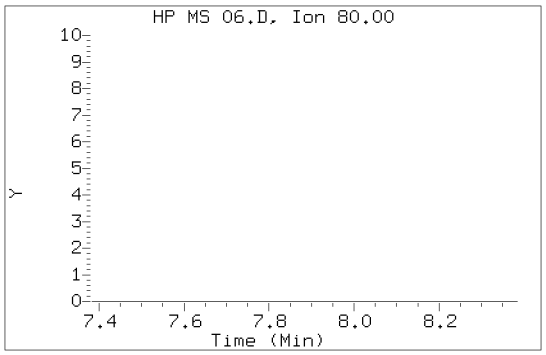
BEFORE

MASS
80
AREA
0
HEIGHT
0
30-Mar-2023
14:03
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
30-Mar-2023
15:15



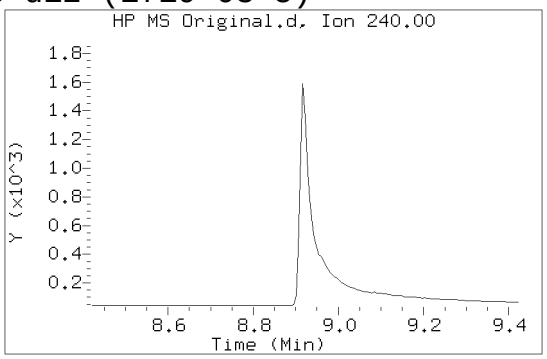
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\06.D
Inj Date : 30-MAR-2023 13:47
InstruID : SV6.i
LabSampID : LCS-191255

Chrysene-d12 (1719-03-5)

Reason Code:

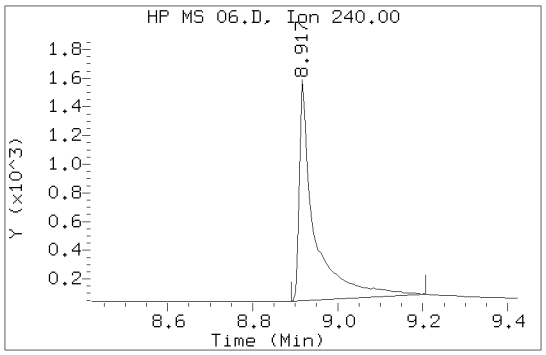
BEFORE

MASS
240
AREA
0
HEIGHT
0
30-Mar-2023
14:03
ALSHS
Server



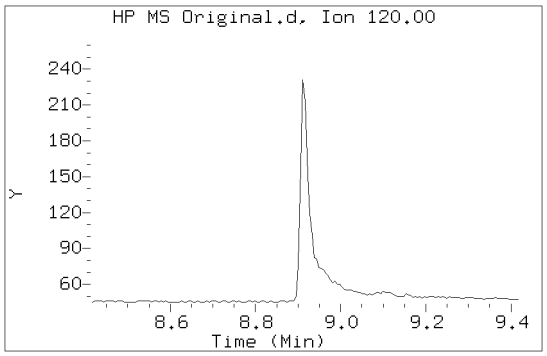
AFTER

MASS
240
AREA
3794
HEIGHT
1540
30-Mar-2023
15:15



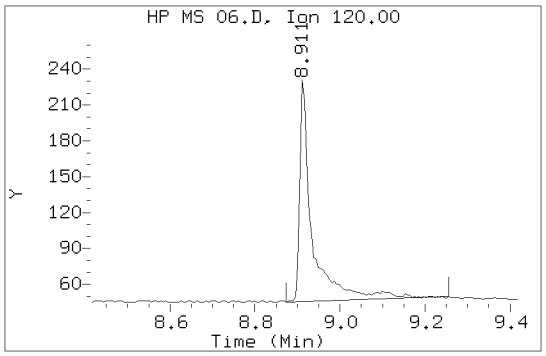
BEFORE

MASS
120
AREA
0
HEIGHT
0
30-Mar-2023
14:03
ALSHS
Server



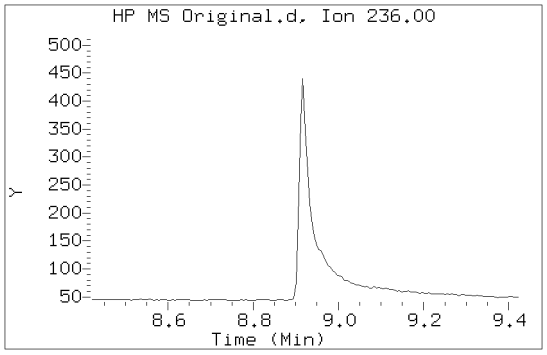
AFTER

MASS
120
AREA
374
HEIGHT
185
30-Mar-2023
15:15



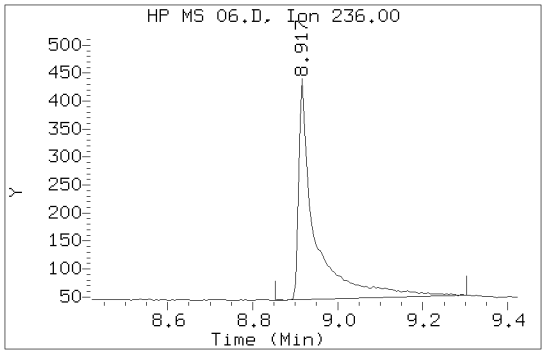
BEFORE

MASS
236
AREA
0
HEIGHT
0
30-Mar-2023
14:03
ALSHS
Server



AFTER

MASS
236
AREA
1043
HEIGHT
394
30-Mar-2023
15:15

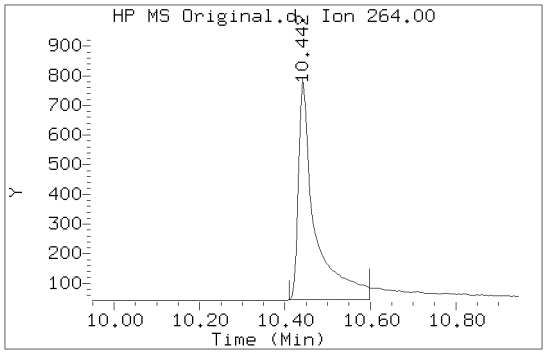


Perylene-d12 (1520-96-3)

Reason Code:

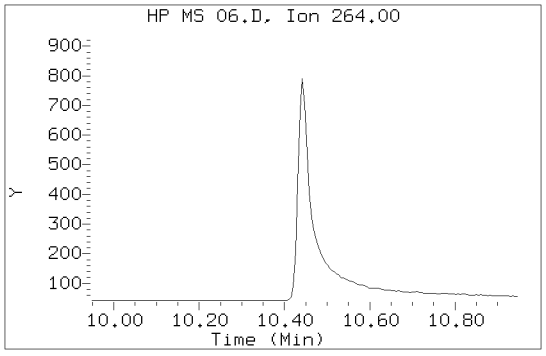
BEFORE

MASS
264
AREA
1981
HEIGHT
745
30-Mar-2023
14:03
ALSHS
Server



AFTER

MASS
264
AREA
2285
HEIGHT
744
30-Mar-2023
15:15

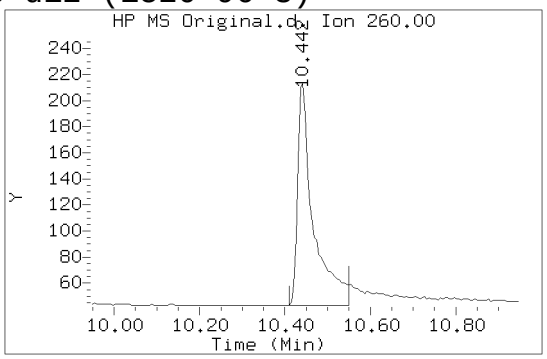


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\06.D
Inj Date : 30-MAR-2023 13:47
InstruID : SV6.i
LabSampID : LCS-191255

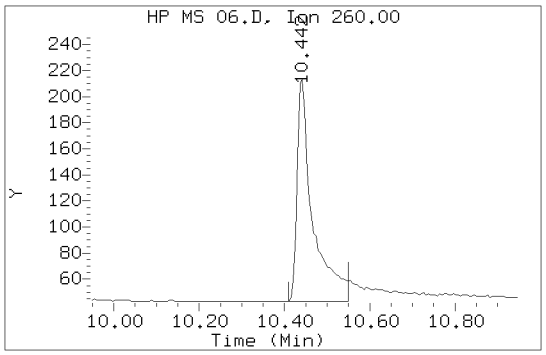
Perylene-d12 (1520-96-3)

Reason Code:

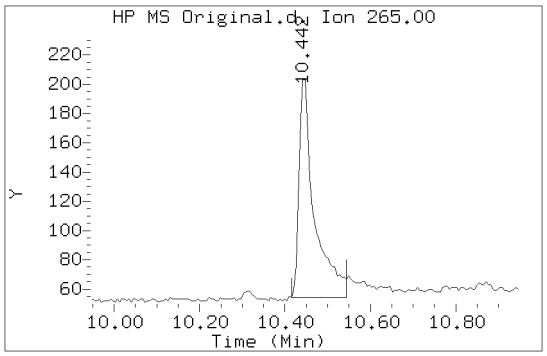
BEFORE
MASS
260
AREA
434
HEIGHT
170
30-Mar-2023
14:03
ALSHS
Server



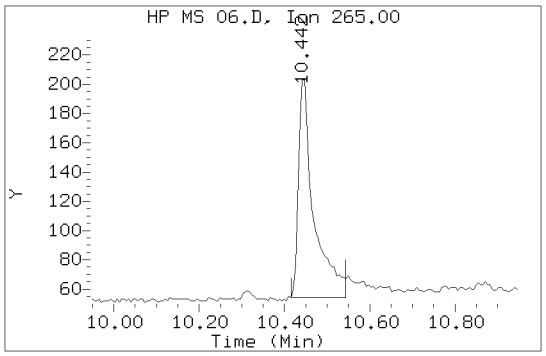
AFTER
MASS
260
AREA
434
HEIGHT
170
30-Mar-2023
15:15



BEFORE
MASS
265
AREA
375
HEIGHT
149
30-Mar-2023
14:03
ALSHS
Server



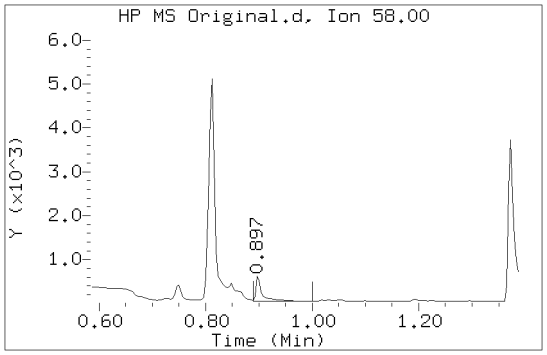
AFTER
MASS
265
AREA
375
HEIGHT
149
30-Mar-2023
15:15



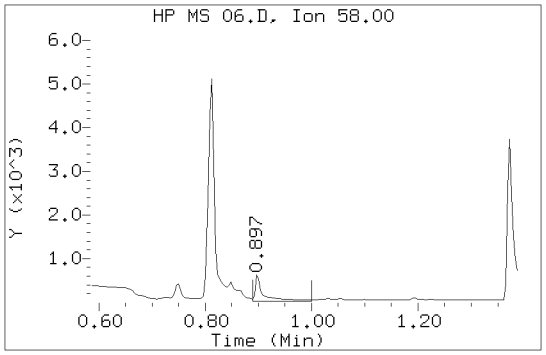
1,4-Dioxane ()

Reason Code:

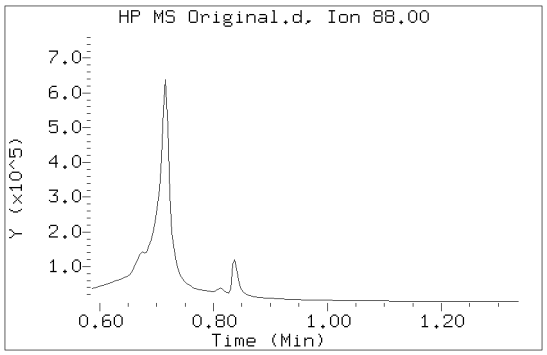
BEFORE
MASS
58
AREA
460
HEIGHT
575
30-Mar-2023
14:03
ALSHS
Server



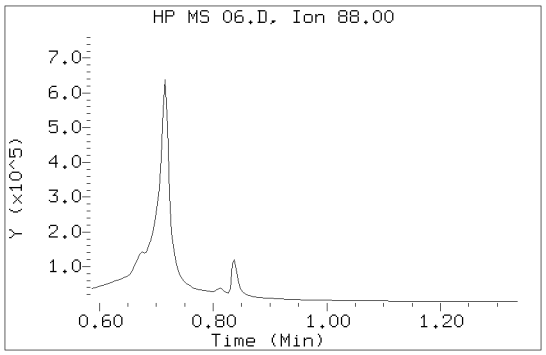
AFTER
MASS
58
AREA
655
HEIGHT
603
30-Mar-2023
15:15



BEFORE
MASS
88
AREA
196797
HEIGHT
119759
30-Mar-2023
14:03
ALSHS
Server



AFTER
MASS
88
AREA
196797
HEIGHT
119759
30-Mar-2023
15:15



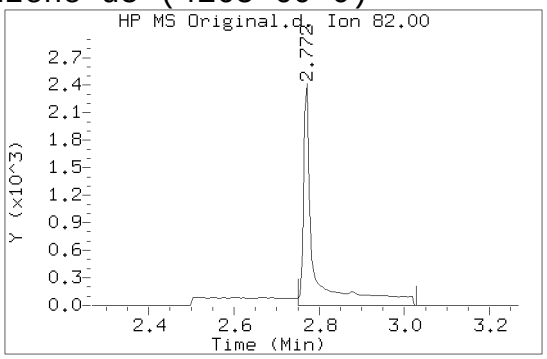
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\06.D
Inj Date : 30-MAR-2023 13:47
InstruID : SV6.i
LabSampID : LCS-191255

Nitrobenzene-d5 (4165-60-0)

Reason Code:

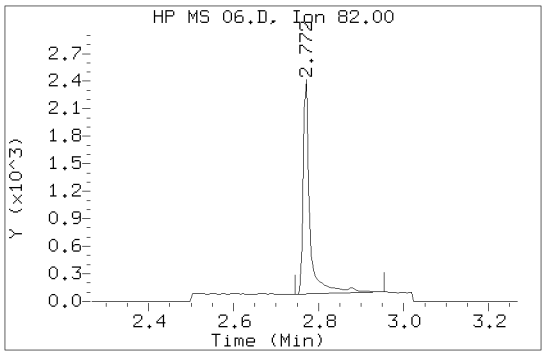
BEFORE

MASS
82
AREA
4108
HEIGHT
2416
30-Mar-2023
14:03
ALSHS
Server



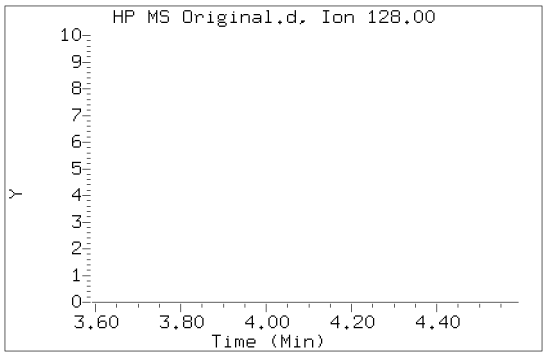
AFTER

MASS
82
AREA
2636
HEIGHT
2336
30-Mar-2023
15:15



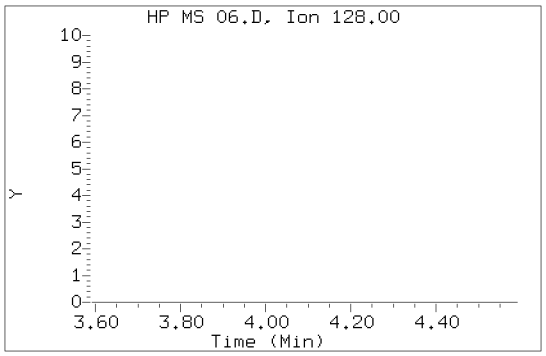
BEFORE

MASS
128
AREA
0
HEIGHT
0
30-Mar-2023
14:03
ALSHS
Server



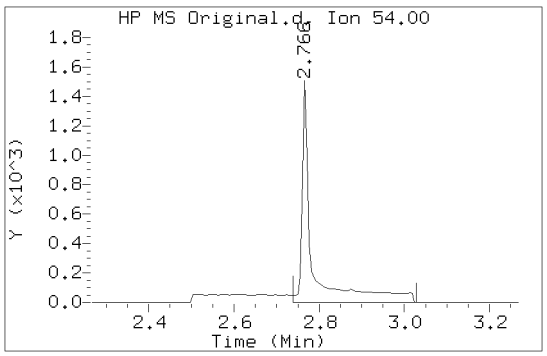
AFTER

MASS
128
AREA
0
HEIGHT
0
30-Mar-2023
15:15



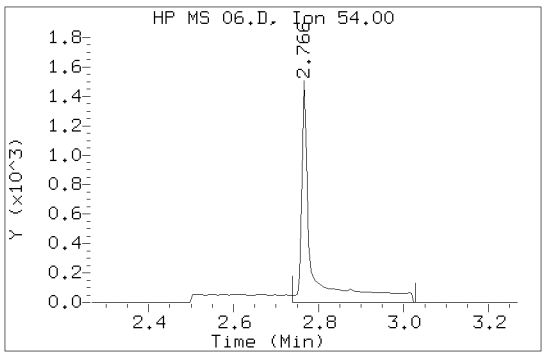
BEFORE

MASS
54
AREA
2494
HEIGHT
1507
30-Mar-2023
14:03
ALSHS
Server



AFTER

MASS
54
AREA
2494
HEIGHT
1507
30-Mar-2023
15:15

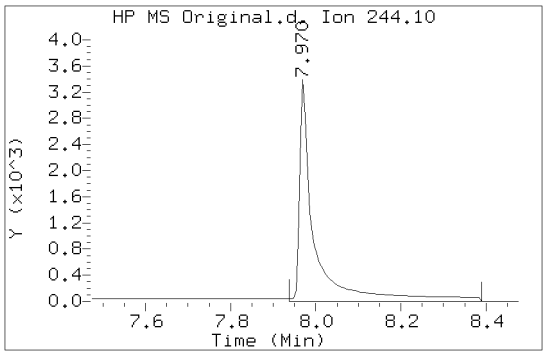


4-Terphenyl-d14 (1718-51-0)

Reason Code:

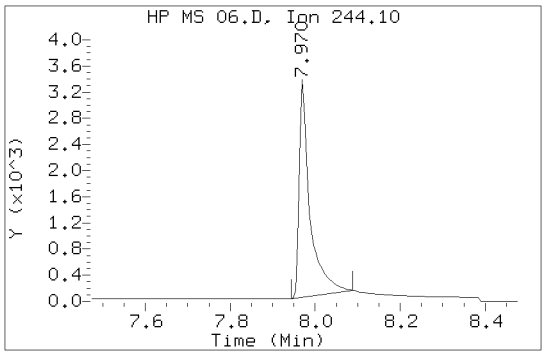
BEFORE

MASS
244.1
AREA
8272
HEIGHT
3390
30-Mar-2023
14:03
ALSHS
Server



AFTER

MASS
244.1
AREA
5753
HEIGHT
3323
30-Mar-2023
15:15



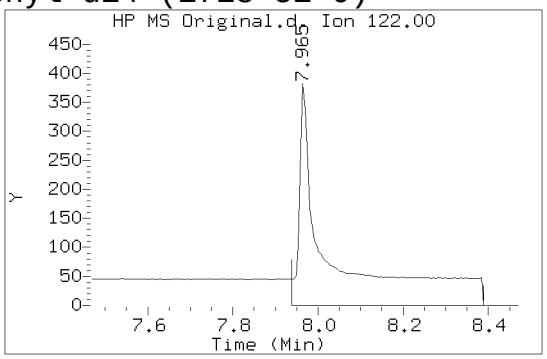
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\06.D
Inj Date : 30-MAR-2023 13:47
InstruID : SV6.i
LabSampID : LCS-191255

4-Terphenyl-d14 (1718-51-0)

Reason Code:

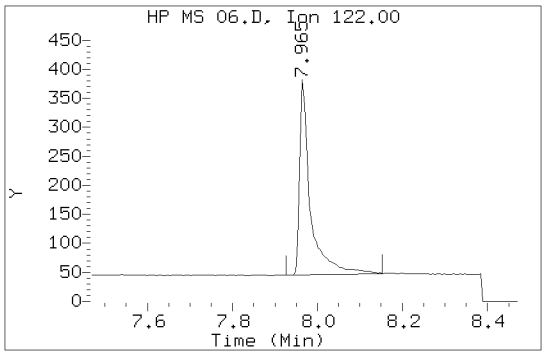
BEFORE

MASS
122
AREA
1859
HEIGHT
382
30-Mar-2023
14:03
ALSHS
Server



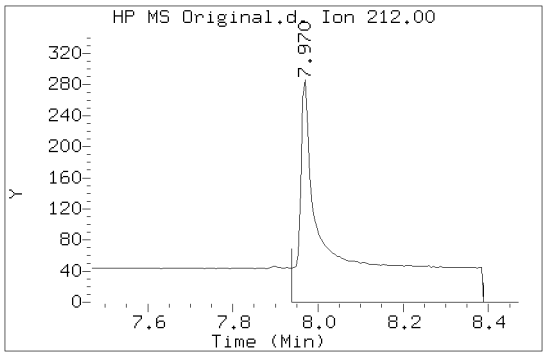
AFTER

MASS
122
AREA
589
HEIGHT
336
30-Mar-2023
15:15



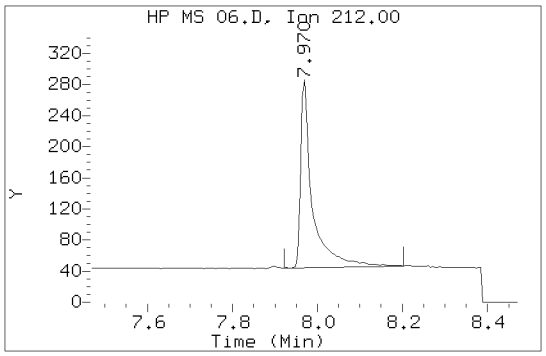
BEFORE

MASS
212
AREA
1690
HEIGHT
286
30-Mar-2023
14:03
ALSHS
Server



AFTER

MASS
212
AREA
464
HEIGHT
241
30-Mar-2023
15:15

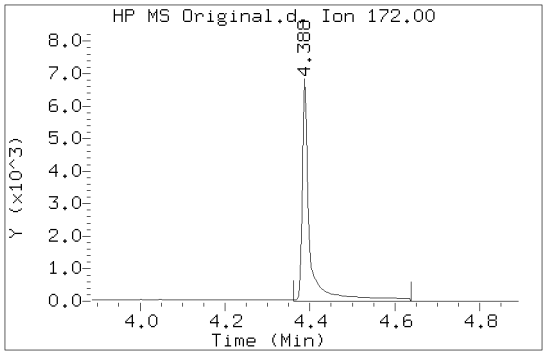


2-Fluorobiphenyl (321-60-8)

Reason Code:

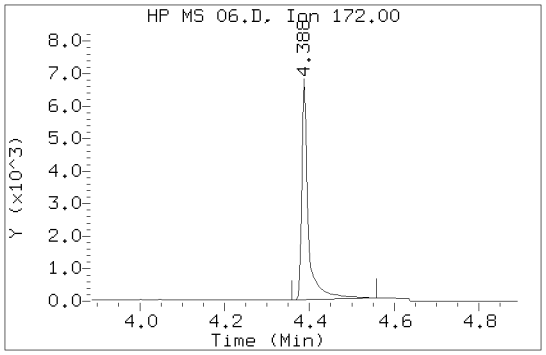
BEFORE

MASS
172
AREA
8600
HEIGHT
6837
30-Mar-2023
14:03
ALSHS
Server



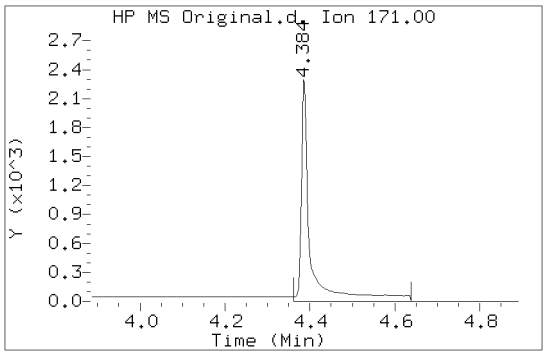
AFTER

MASS
172
AREA
7299
HEIGHT
6781
30-Mar-2023
15:15



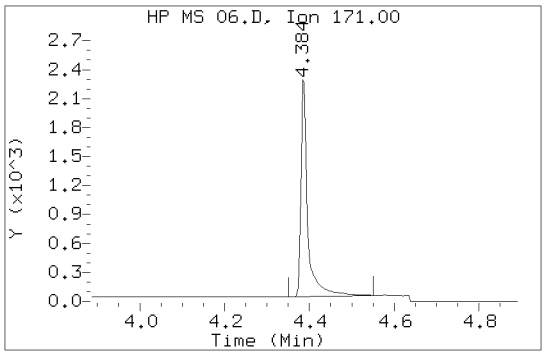
BEFORE

MASS
171
AREA
3475
HEIGHT
2296
30-Mar-2023
14:03
ALSHS
Server



AFTER

MASS
171
AREA
2542
HEIGHT
2248
30-Mar-2023
15:15



Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\07.D Page 1
Report Date: 30-Mar-2023 15:16

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230330.b\07.D
Lab Smp Id: LCSD-191255
Inj Date : 30-MAR-2023 14:05
Operator : LG Inst ID: SV6.i
Smp Info : LCSD-191255
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230330.b\DXSIM.m
Meth Date : 30-Mar-2023 13:04 marco.guti Quant Type: ISTD
Cal Date : 26-JAN-2023 19:09 Cal File: 25.D
Als bottle: 6 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.336	2.331	(1.000)	2919	0.10000	(aM)
* 45 Naphthalene-d8	136	3.370	3.370	(1.000)	12373	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.771	2.766	(0.822)	3128	0.08762	0.08762(M)
* 86 Acenaphthene-d10	164	4.987	4.986	(1.000)	6643	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.388	4.387	(0.880)	7665	0.08791	0.08791(M)
* 126 Phenanthrene-d10	188	6.388	6.393	(1.000)	13706	0.10000	
* 182 Chrysene-d12	240	8.916	8.922	(1.000)	4053	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.969	7.975	(0.894)	6097	0.08675	0.08675(M)
* 198 Perylene-d12	264	10.442	10.447	(1.000)	2291	0.10000	(M)
1 1,4-Dioxane	58	0.896	0.885	(0.384)	688	0.06461	0.06461(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01184765

Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\07.D

Date : 30-MAR-2023 14:05

Client ID:

Instrument: SV6.i

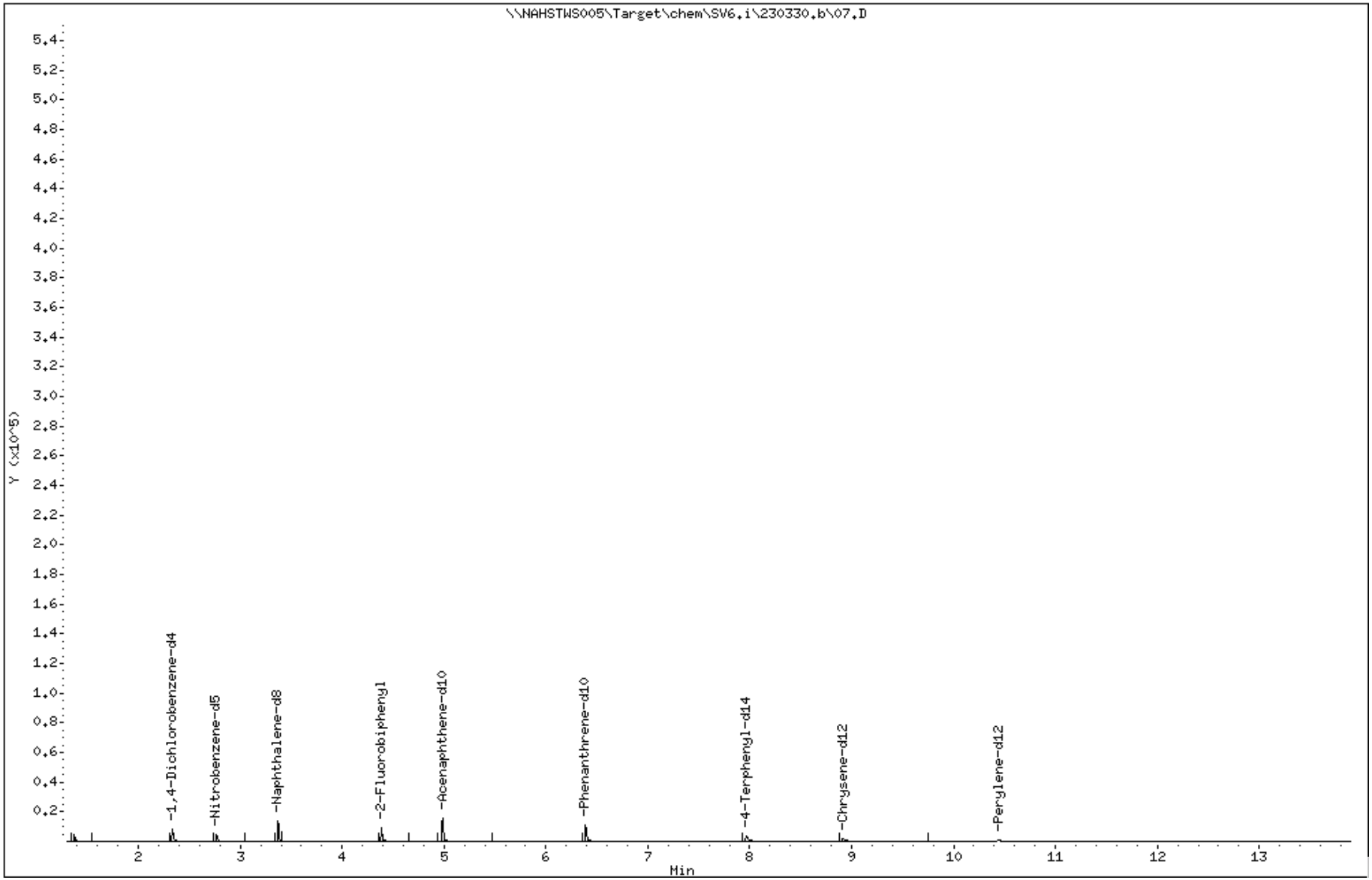
Sample Info: LCSD-191255

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

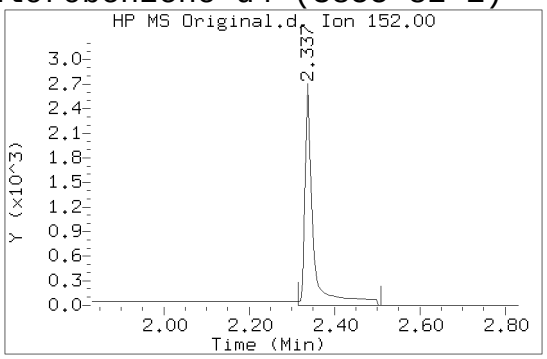


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\07.D
Inj Date : 30-MAR-2023 14:05
InstruID : SV6.i
LabSampID : LCSD-191255

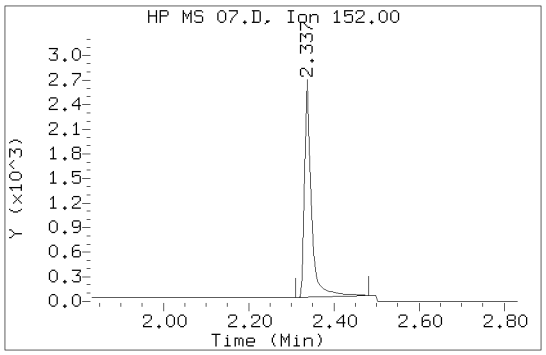
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

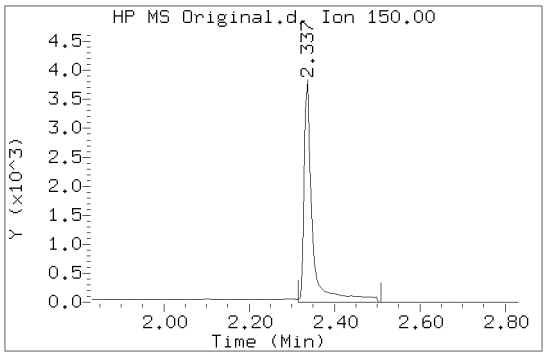
BEFORE
MASS
152
AREA
3610
HEIGHT
2705
30-Mar-2023
14:19
ALSHS
Server



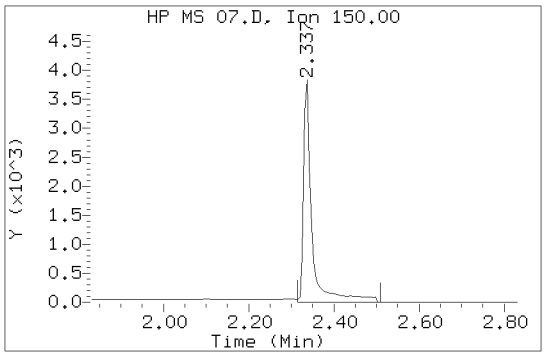
AFTER
MASS
152
AREA
2919
HEIGHT
2654
30-Mar-2023
15:16



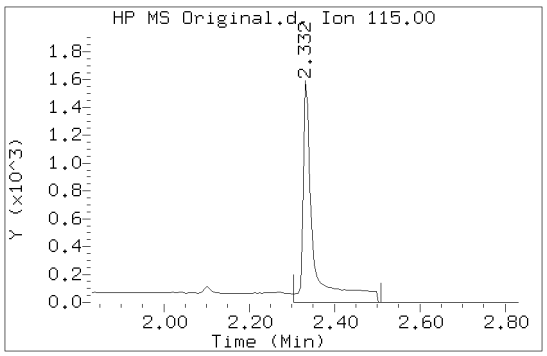
BEFORE
MASS
150
AREA
5208
HEIGHT
3835
30-Mar-2023
14:19
ALSHS
Server



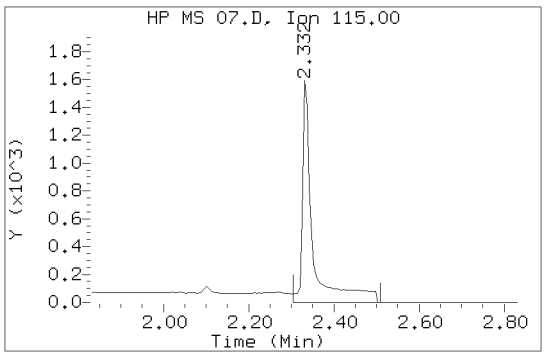
AFTER
MASS
150
AREA
5208
HEIGHT
3835
30-Mar-2023
15:16



BEFORE
MASS
115
AREA
2629
HEIGHT
1592
30-Mar-2023
14:19
ALSHS
Server



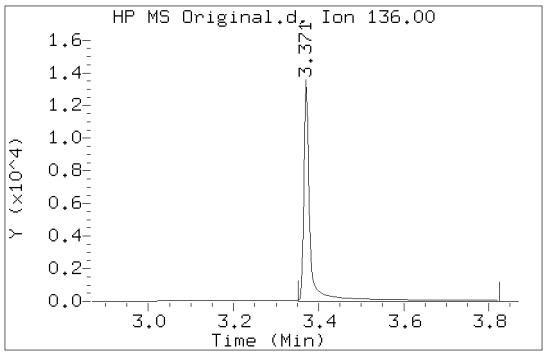
AFTER
MASS
115
AREA
2629
HEIGHT
1592
30-Mar-2023
15:16



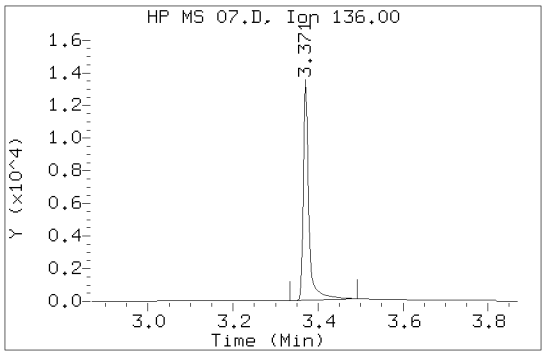
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
15182
HEIGHT
13584
30-Mar-2023
14:19
ALSHS
Server



AFTER
MASS
136
AREA
12373
HEIGHT
13508
30-Mar-2023
15:16



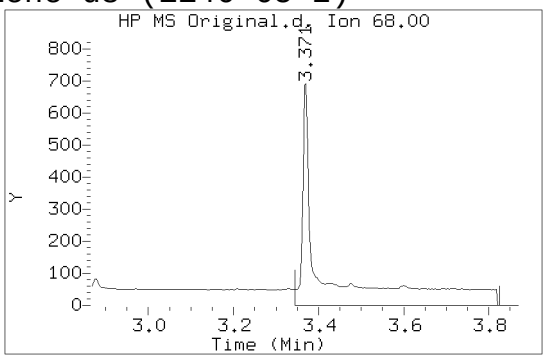
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\07.D
Inj Date : 30-MAR-2023 14:05
InstruID : SV6.i
LabSampID : LCSD-191255

Naphthalene-d8 (1146-65-2)

Reason Code:

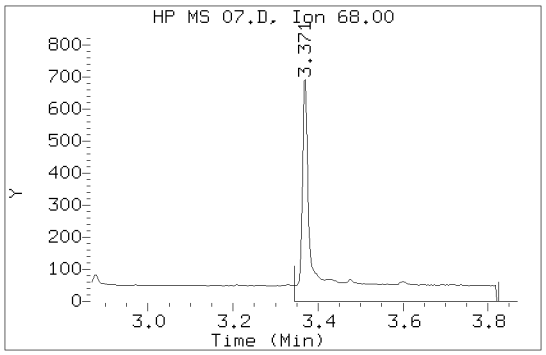
BEFORE

MASS
68
AREA
2124
HEIGHT
691
30-Mar-2023
14:19
ALSHS
Server



AFTER

MASS
68
AREA
2124
HEIGHT
691
30-Mar-2023
15:16

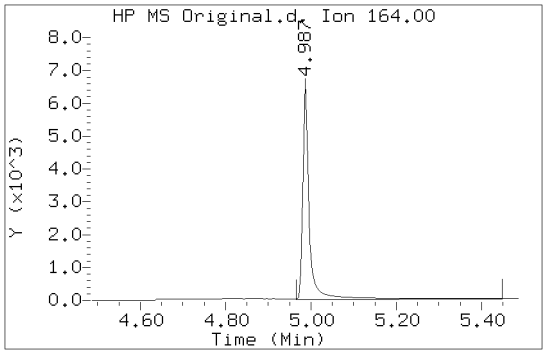


Acenaphthene-d10 (15067-26-2)

Reason Code:

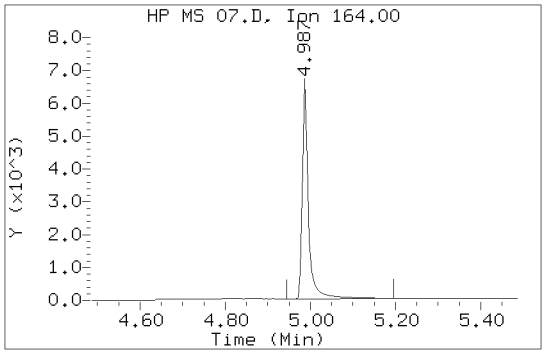
BEFORE

MASS
164
AREA
7263
HEIGHT
6728
30-Mar-2023
14:19
ALSHS
Server



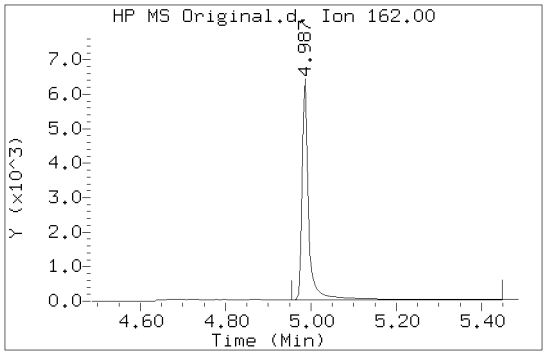
AFTER

MASS
164
AREA
6643
HEIGHT
6700
30-Mar-2023
15:16



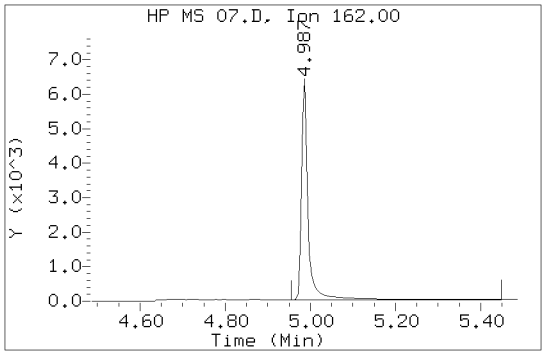
BEFORE

MASS
162
AREA
6945
HEIGHT
6397
30-Mar-2023
14:19
ALSHS
Server



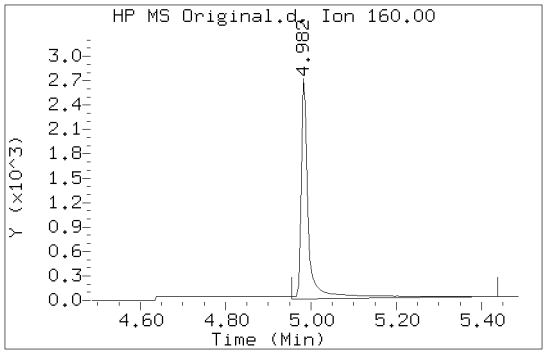
AFTER

MASS
162
AREA
6945
HEIGHT
6397
30-Mar-2023
15:16



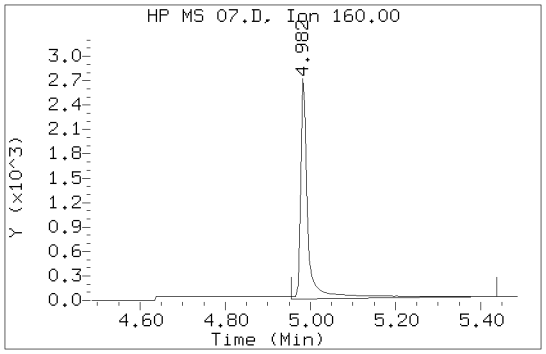
BEFORE

MASS
160
AREA
3361
HEIGHT
2704
30-Mar-2023
14:19
ALSHS
Server



AFTER

MASS
160
AREA
3361
HEIGHT
2704
30-Mar-2023
15:16



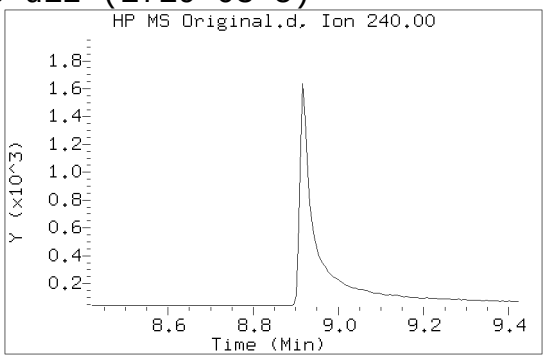
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\07.D
Inj Date : 30-MAR-2023 14:05
InstruID : SV6.i
LabSampID : LCSD-191255

Chrysene-d12 (1719-03-5)

Reason Code:

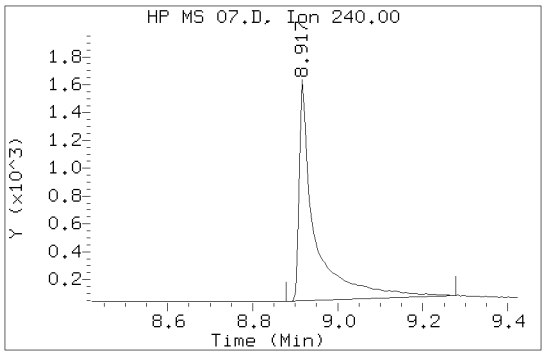
BEFORE

MASS
240
AREA
0
HEIGHT
0
30-Mar-2023
14:19
ALSHS
Server



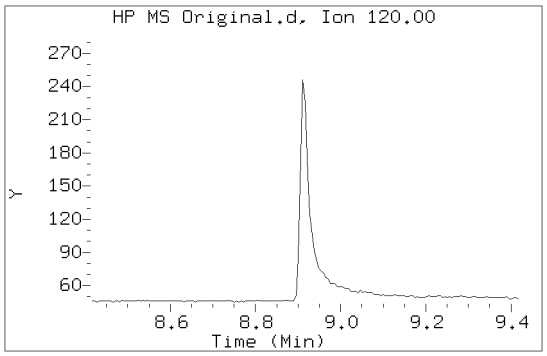
AFTER

MASS
240
AREA
4053
HEIGHT
1587
30-Mar-2023
15:16



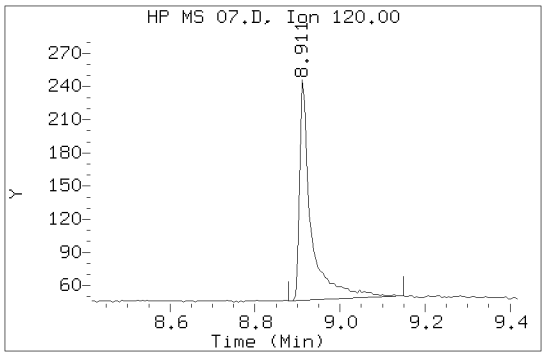
BEFORE

MASS
120
AREA
0
HEIGHT
0
30-Mar-2023
14:19
ALSHS
Server



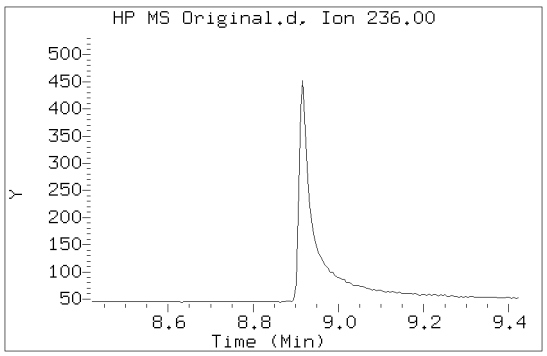
AFTER

MASS
120
AREA
375
HEIGHT
199
30-Mar-2023
15:16



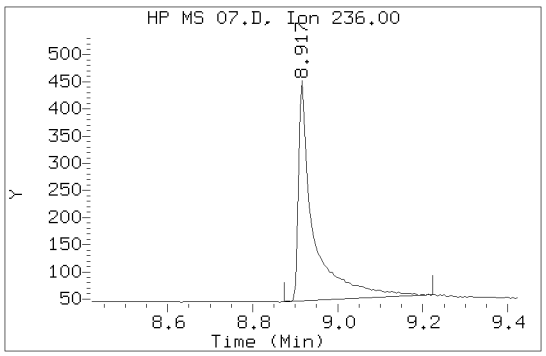
BEFORE

MASS
236
AREA
0
HEIGHT
0
30-Mar-2023
14:19
ALSHS
Server



AFTER

MASS
236
AREA
998
HEIGHT
405
30-Mar-2023
15:16

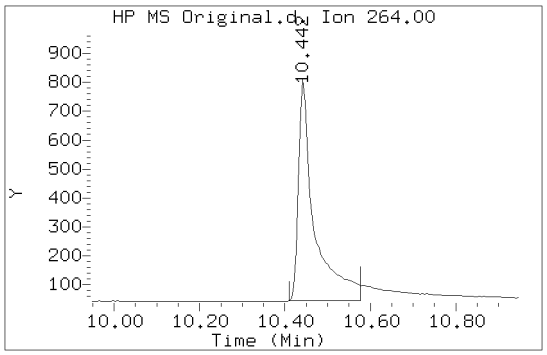


Perylene-d12 (1520-96-3)

Reason Code:

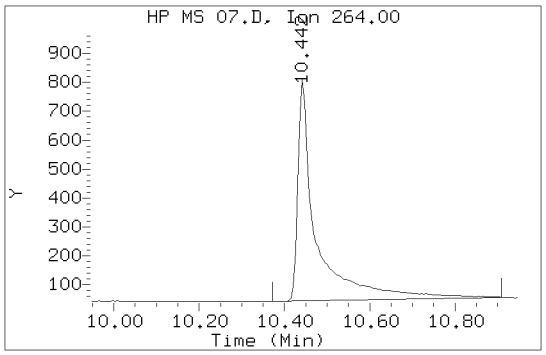
BEFORE

MASS
264
AREA
1976
HEIGHT
764
30-Mar-2023
14:19
ALSHS
Server



AFTER

MASS
264
AREA
2291
HEIGHT
763
30-Mar-2023
15:16

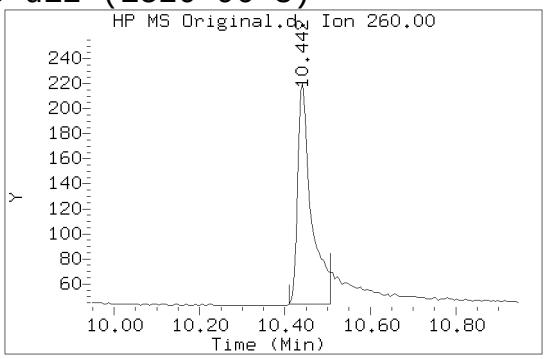


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\07.D
Inj Date : 30-MAR-2023 14:05
InstruID : SV6.i
LabSampID : LCSD-191255

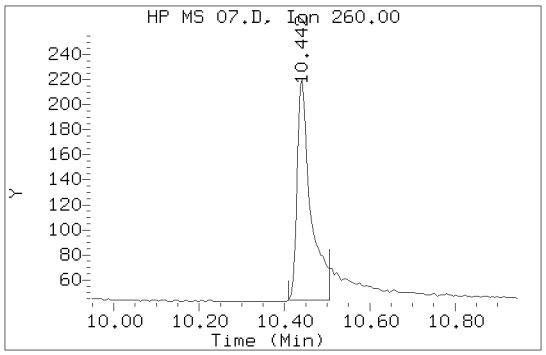
Perylene-d12 (1520-96-3)

Reason Code:

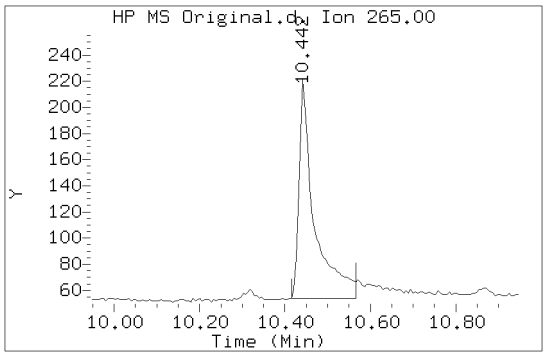
BEFORE
MASS
260
AREA
392
HEIGHT
176
30-Mar-2023
14:19
ALSHS
Server



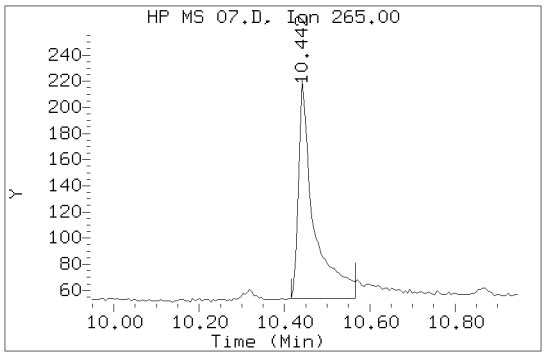
AFTER
MASS
260
AREA
392
HEIGHT
176
30-Mar-2023
15:16



BEFORE
MASS
265
AREA
412
HEIGHT
167
30-Mar-2023
14:19
ALSHS
Server



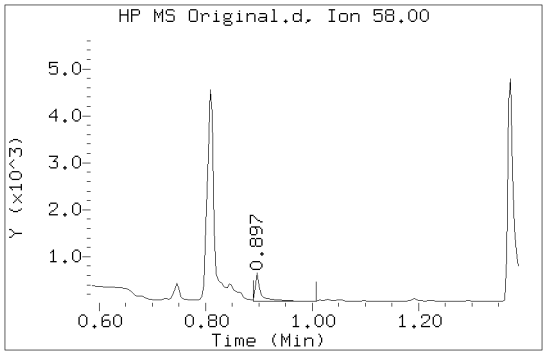
AFTER
MASS
265
AREA
412
HEIGHT
167
30-Mar-2023
15:16



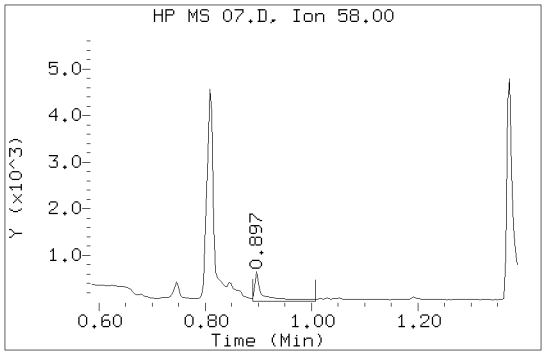
1,4-Dioxane ()

Reason Code:

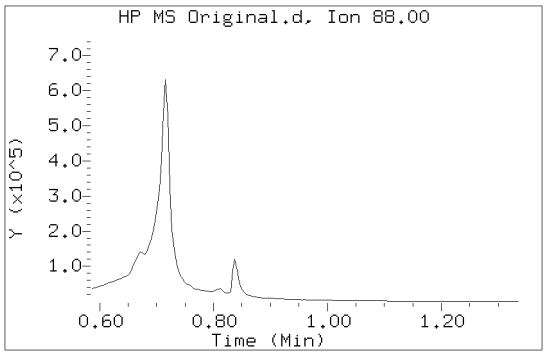
BEFORE
MASS
58
AREA
433
HEIGHT
596
30-Mar-2023
14:19
ALSHS
Server



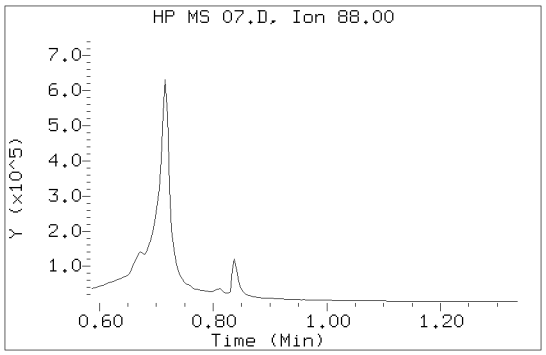
AFTER
MASS
58
AREA
688
HEIGHT
631
30-Mar-2023
15:16



BEFORE
MASS
88
AREA
190697
HEIGHT
120260
30-Mar-2023
14:19
ALSHS
Server



AFTER
MASS
88
AREA
190697
HEIGHT
120260
30-Mar-2023
15:16



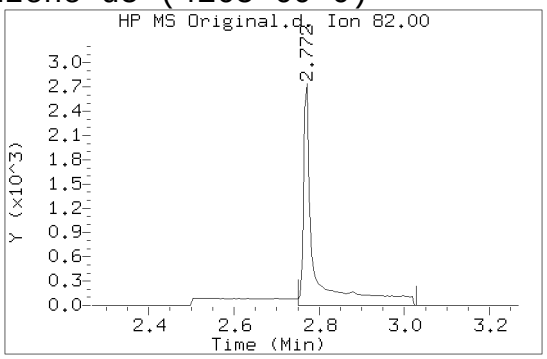
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\07.D
Inj Date : 30-MAR-2023 14:05
InstruID : SV6.i
LabSampID : LCSD-191255

Nitrobenzene-d5 (4165-60-0)

Reason Code:

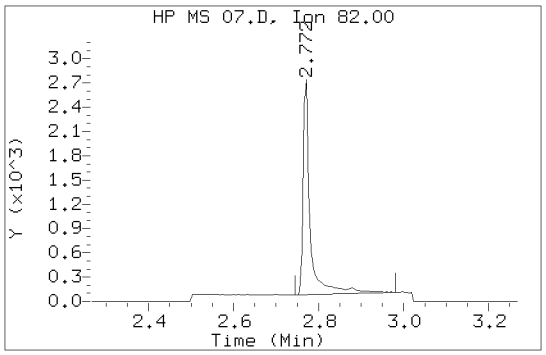
BEFORE

MASS
82
AREA
4701
HEIGHT
2741
30-Mar-2023
14:19
ALSHS
Server



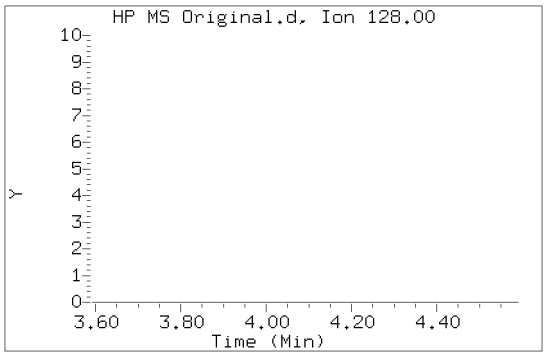
AFTER

MASS
82
AREA
3128
HEIGHT
2658
30-Mar-2023
15:16



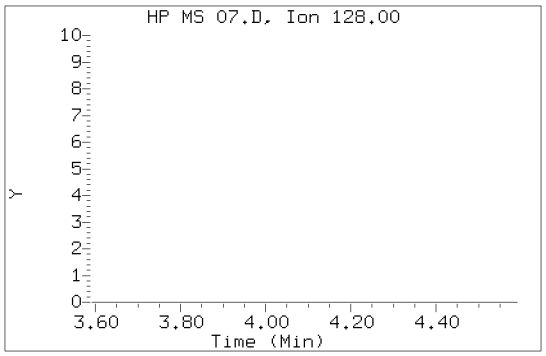
BEFORE

MASS
128
AREA
0
HEIGHT
0
30-Mar-2023
14:19
ALSHS
Server



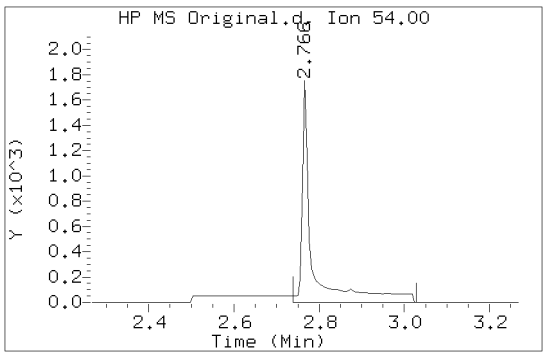
AFTER

MASS
128
AREA
0
HEIGHT
0
30-Mar-2023
15:16



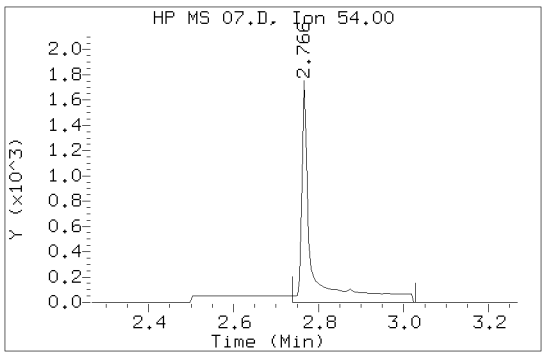
BEFORE

MASS
54
AREA
2842
HEIGHT
1753
30-Mar-2023
14:19
ALSHS
Server



AFTER

MASS
54
AREA
2842
HEIGHT
1753
30-Mar-2023
15:16

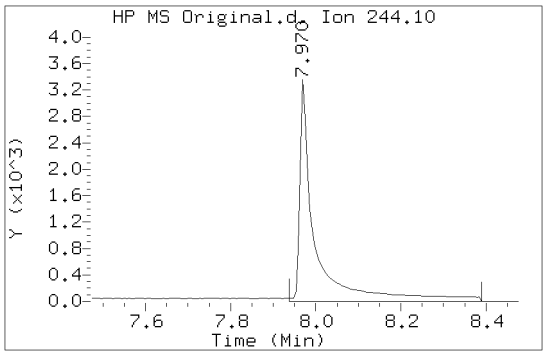


4-Terphenyl-d14 (1718-51-0)

Reason Code:

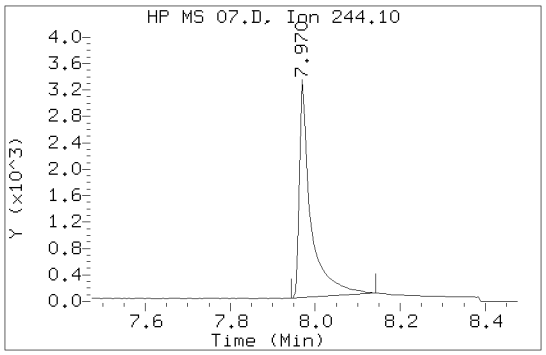
BEFORE

MASS
244.1
AREA
8380
HEIGHT
3355
30-Mar-2023
14:19
ALSHS
Server



AFTER

MASS
244.1
AREA
6097
HEIGHT
3299
30-Mar-2023
15:16



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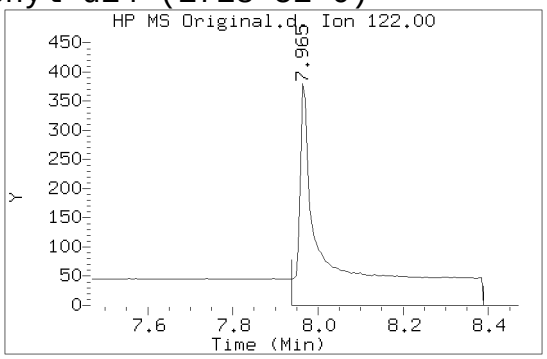
Inj Date : 30-MAR-2023 14:05
InstruID : SV6.i
LabSampID : LCSD-191255

4-Terphenyl-d14 (1718-51-0)

Reason Code:

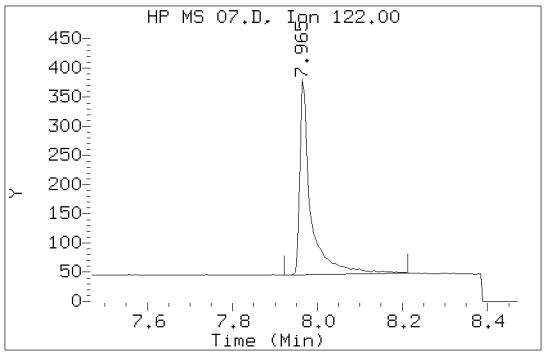
BEFORE

MASS
122
AREA
1869
HEIGHT
380
30-Mar-2023
14:19
ALSHS
Server



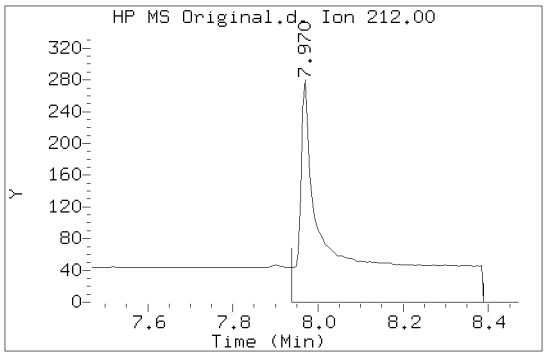
AFTER

MASS
122
AREA
599
HEIGHT
334
30-Mar-2023
15:16



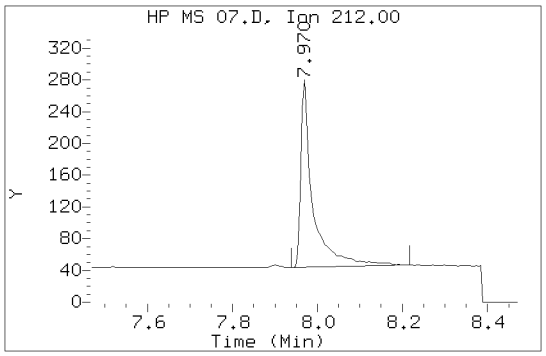
BEFORE

MASS
212
AREA
1695
HEIGHT
280
30-Mar-2023
14:19
ALSHS
Server



AFTER

MASS
212
AREA
456
HEIGHT
235
30-Mar-2023
15:16

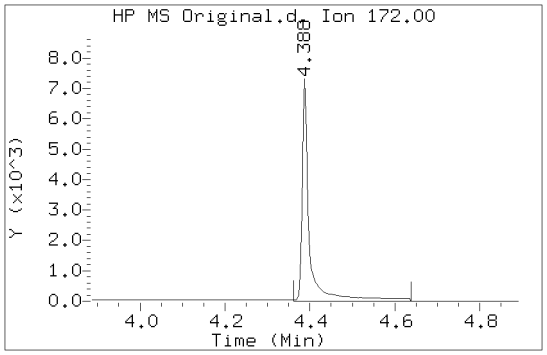


2-Fluorobiphenyl (321-60-8)

Reason Code:

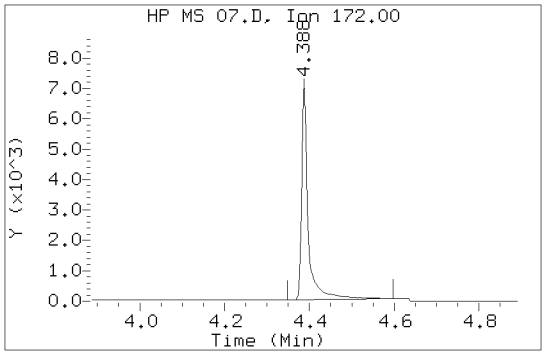
BEFORE

MASS
172
AREA
8845
HEIGHT
7312
30-Mar-2023
14:19
ALSHS
Server



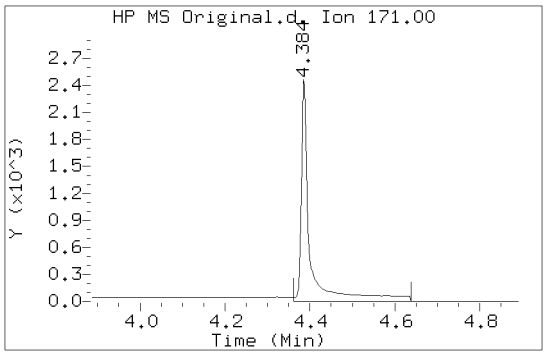
AFTER

MASS
172
AREA
7665
HEIGHT
7256
30-Mar-2023
15:16



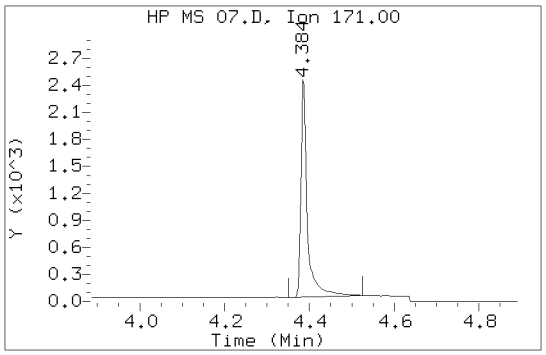
BEFORE

MASS
171
AREA
3547
HEIGHT
2464
30-Mar-2023
14:19
ALSHS
Server



AFTER

MASS
171
AREA
2580
HEIGHT
2414
30-Mar-2023
15:16



Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\10.D Page 1
Report Date: 30-Mar-2023 16:19

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230330.b\10.D
Lab Smp Id: HS23031291-01X10
Inj Date : 30-MAR-2023 15:33
Operator : LG Inst ID: SV6.i
Smp Info : HS23031291-01X10
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\230330.b\DXSIM.m
Meth Date : 30-Mar-2023 13:04 marco.guti Quant Type: ISTD
Cal Date : 26-JAN-2023 19:09 Cal File: 25.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.336	2.331	(1.000)	2597	0.10000	(aM)
* 45 Naphthalene-d8	136	3.370	3.370	(1.000)	13114	0.10000	
$ 33 Nitrobenzene-d5	82	2.771	2.766	(0.822)	320	0.00846	0.008457(QR)
* 86 Acenaphthene-d10	164	4.986	4.986	(1.000)	8188	0.10000	
$ 69 2-Fluorobiphenyl	172	4.387	4.387	(0.880)	1675	0.01559	0.01558(R)
* 126 Phenanthrene-d10	188	6.393	6.393	(1.000)	12311	0.10000	
$ 158 4-Terphenyl-d14	244	7.975	7.975	(1.000)	2015		(aQR)
* 198 Perylene-d12	264	10.447	10.447	(1.000)	2505	0.10000	
1 1,4-Dioxane	58	0.900	0.885	(0.385)	1228	0.12963	0.1296(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

01184773

Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\10.D

Date : 30-MAR-2023 15:33

Client ID:

Instrument: SV6.i

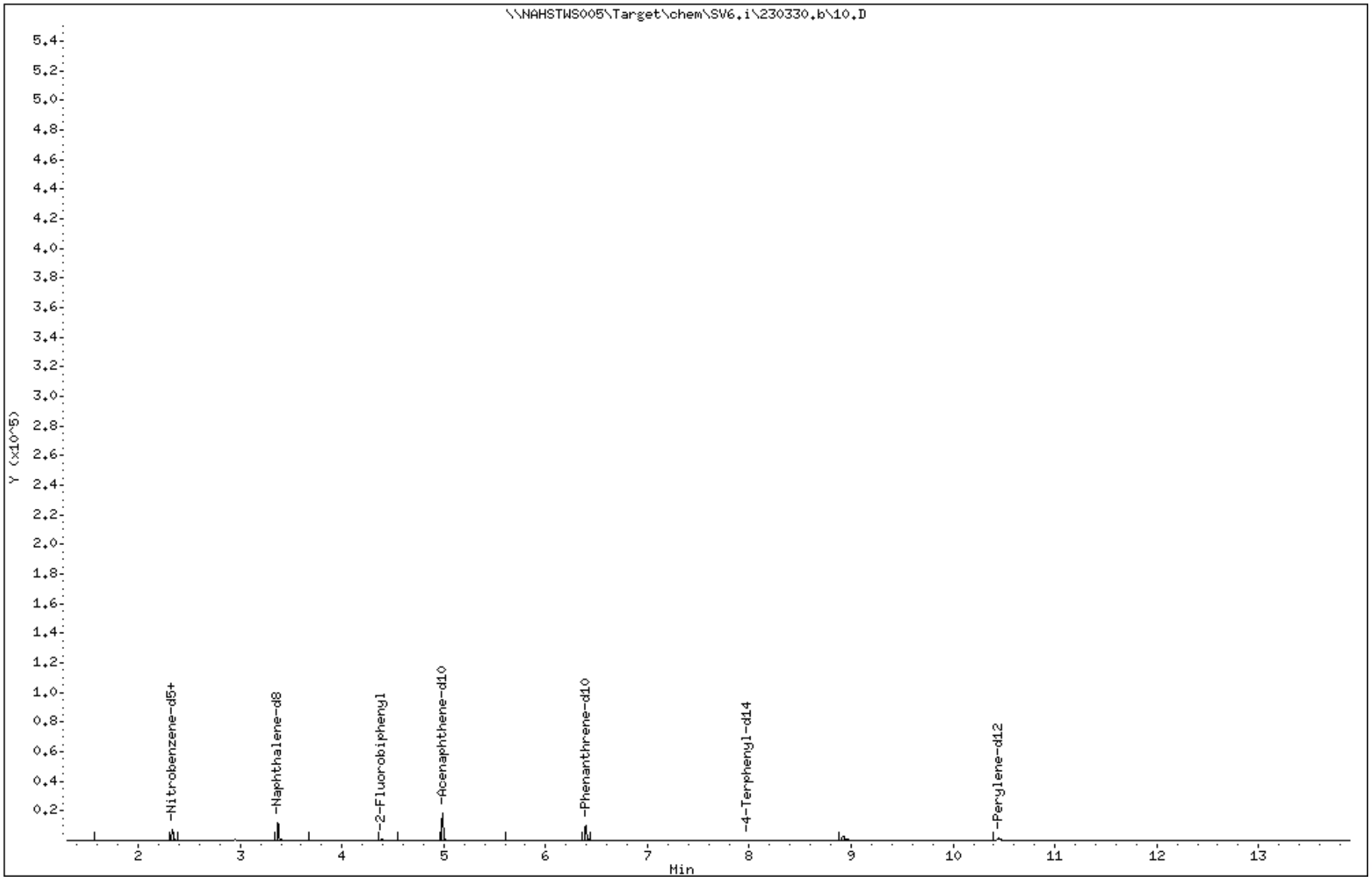
Sample Info: HS23031291-01X10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\10.D

Date : 30-MAR-2023 15:33

Client ID:

Instrument: SV6.i

Sample Info: HS23031291-01X10

Purge Volume: 1000.0

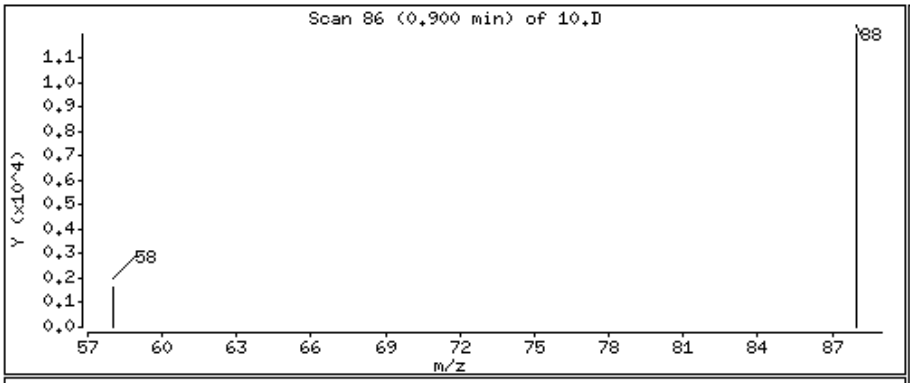
Operator: LG

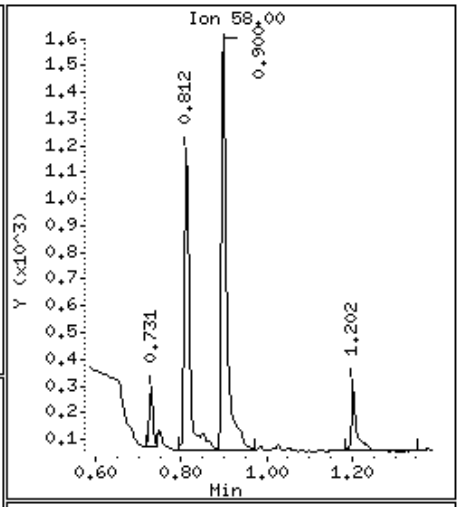
Column phase: RTX-5SIL MS

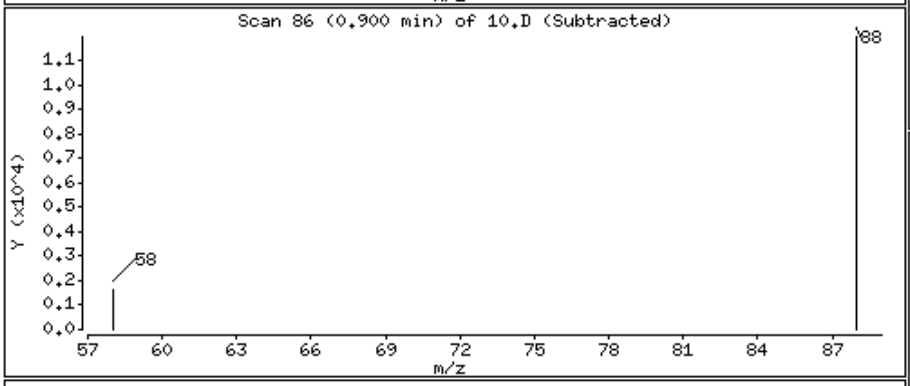
Column diameter: 0.28

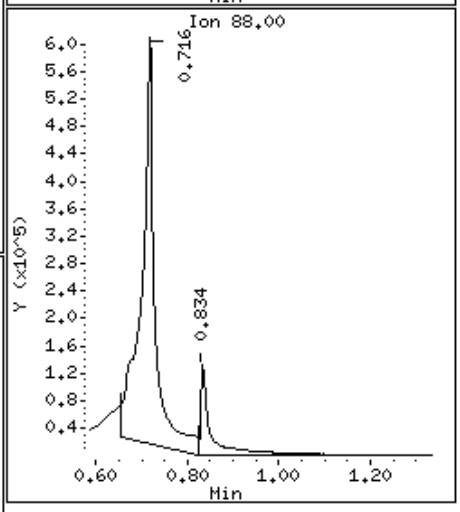
1 1,4-Dioxane

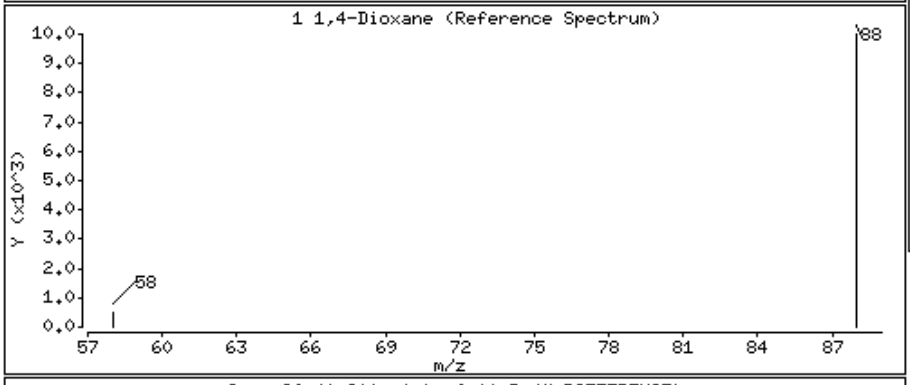
Concentration: 0.1296 ug/L

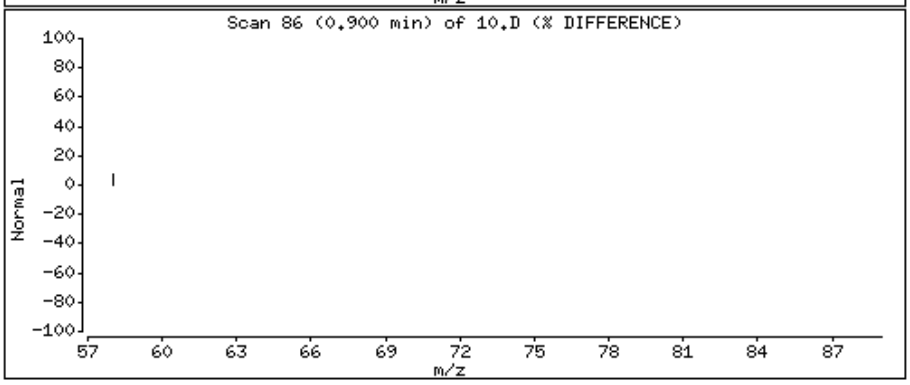










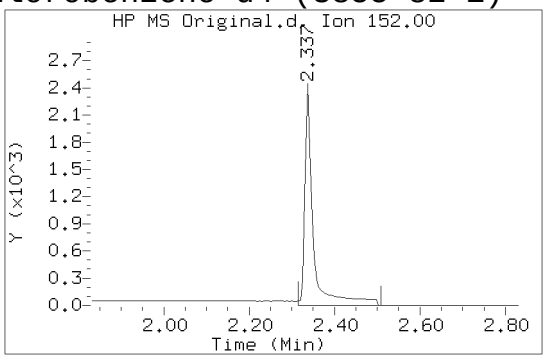


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\10.D
Inj Date : 30-MAR-2023 15:33
InstruID : SV6.i
LabSampID : HS23031291-01X10

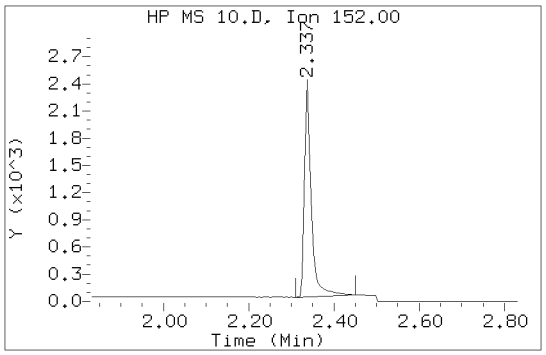
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

BEFORE
MASS
152
AREA
3288
HEIGHT
2446
30-Mar-2023
15:49
ALSHS
Server



AFTER
MASS
152
AREA
2597
HEIGHT
2395
30-Mar-2023
16:19



BEFORE
MASS
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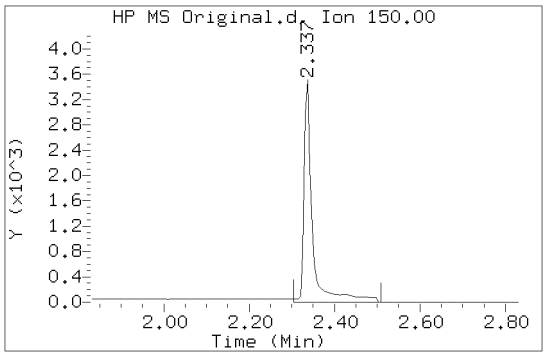
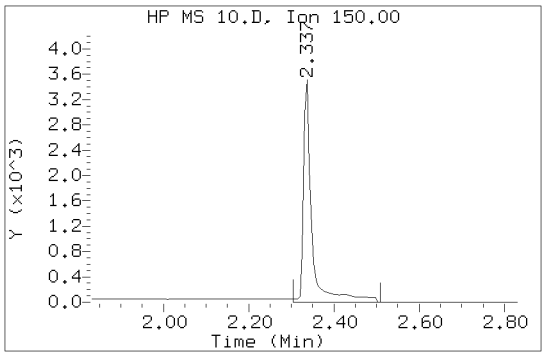
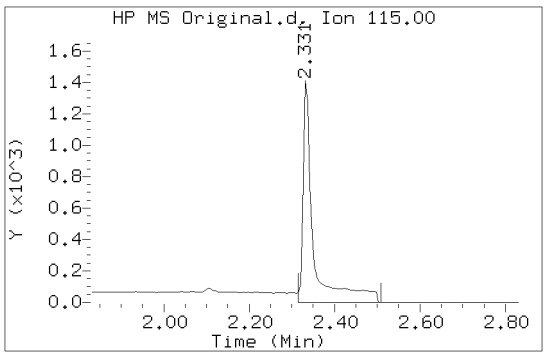
AREA
4768
HEIGHT
3510
30-Mar-2023
15:49
ALSHS
Server



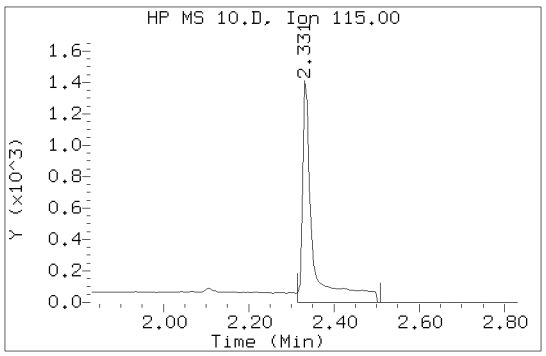
AFTER
MASS
150
AREA
4768
HEIGHT
3510
30-Mar-2023
16:19



BEFORE
MASS
115
AREA
2331
HEIGHT
1411
30-Mar-2023
15:49
ALSHS
Server



AFTER
MASS
115
AREA
2331
HEIGHT
1411
30-Mar-2023
16:19



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230330.b\12.D
Lab Smp Id: 14DX-CCV_END Client Smp ID: 14DX-CCV_END
Inj Date : 30-MAR-2023 16:22
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\230330.b\DXSIM.m
Meth Date : 04-Apr-2023 12:25 SV6.i Quant Type: ISTD
Cal Date : 26-JAN-2023 19:09 Cal File: 25.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.336	2.336	(1.000)	3131	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.370	3.370	(1.000)	15016	0.10000	
$ 33 Nitrobenzene-d5	82	2.771	2.771	(0.822)	2607	0.08000	0.06017(QM)
* 86 Acenaphthene-d10	164	4.987	4.987	(1.000)	8381	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.388	4.388	(0.880)	7434	0.08000	0.06758(M)
* 126 Phenanthrene-d10	188	6.394	6.394	(1.000)	15258	0.10000	(M)
* 182 Chrysene-d12	240	8.922	8.922	(1.000)	3778	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.975	7.975	(0.894)	5117	0.08000	0.07980(M)
* 198 Perylene-d12	264	10.447	10.447	(1.000)	2031	0.10000	(M)
1 1,4-Dioxane	58	0.892	0.892	(0.382)	752	0.08000	0.06584(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

01184777

Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\12.D

Date : 30-MAR-2023 16:22

Client ID: 14DX-CCV_END

Instrument: SV6.i

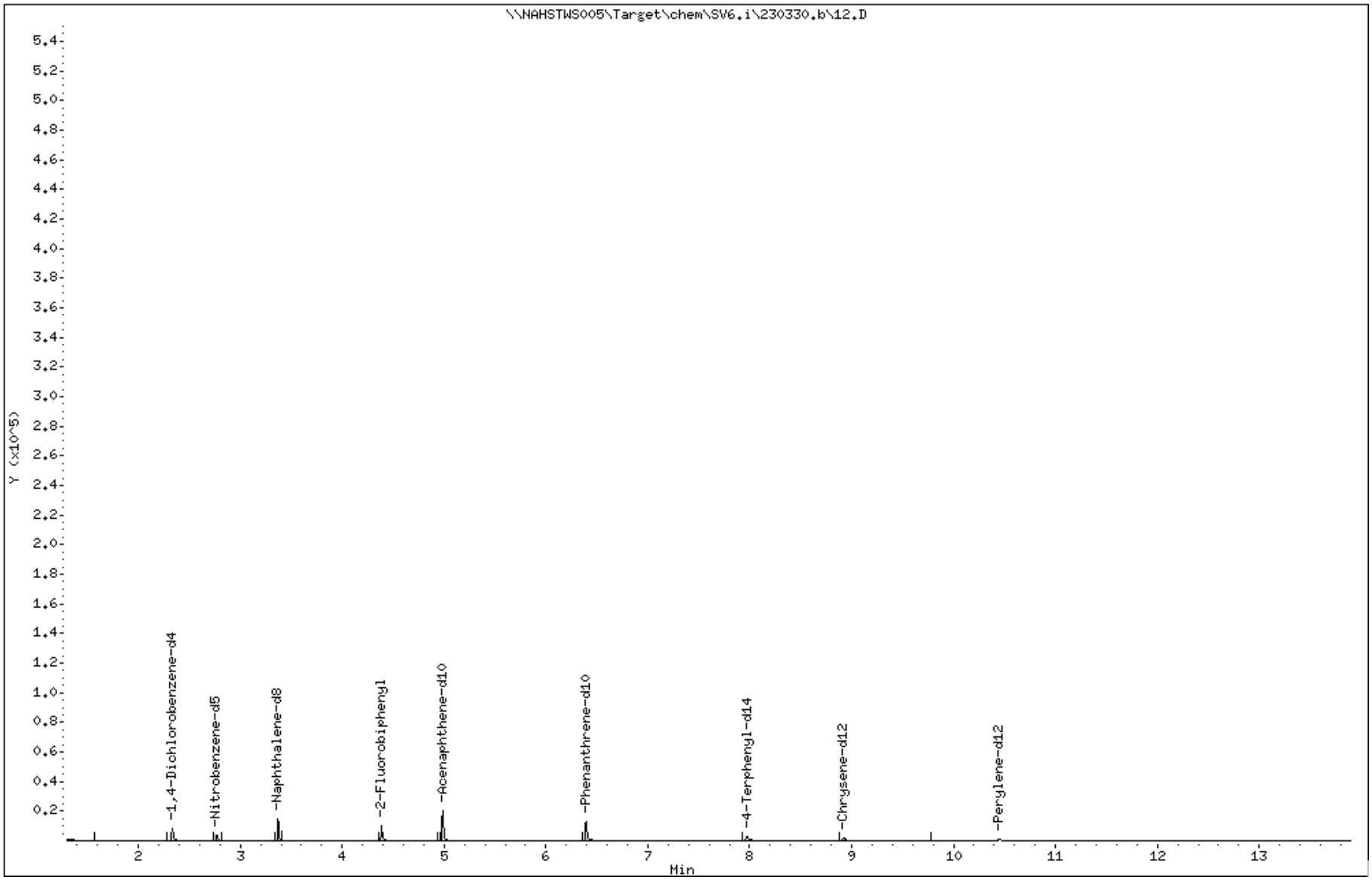
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



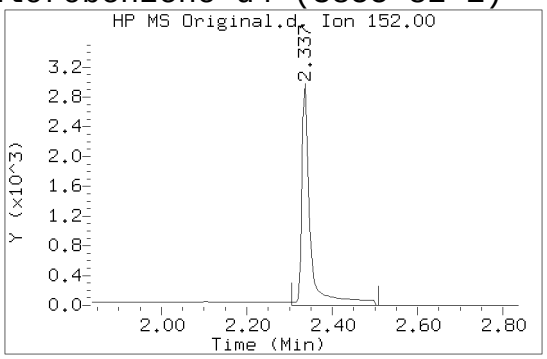
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\12.D
Inj Date : 30-MAR-2023 16:22
InstruID : SV6.i
LabSampID : 14DX-CCV_END

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

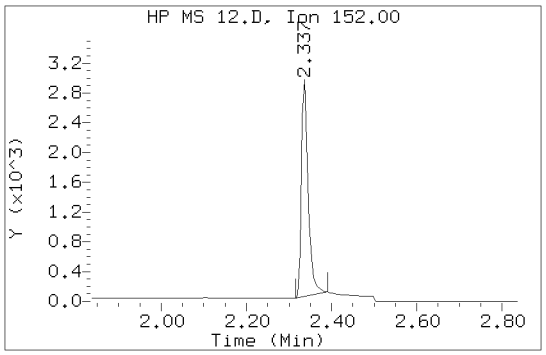
BEFORE

MASS
152
AREA
4117
HEIGHT
2980
30-Mar-2023
16:36
ALSHS
Server



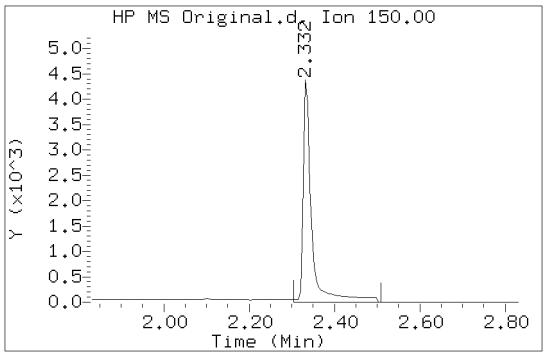
AFTER

MASS
152
AREA
3131
HEIGHT
2911
04-Apr-2023
12:25
ALSHS
Ser



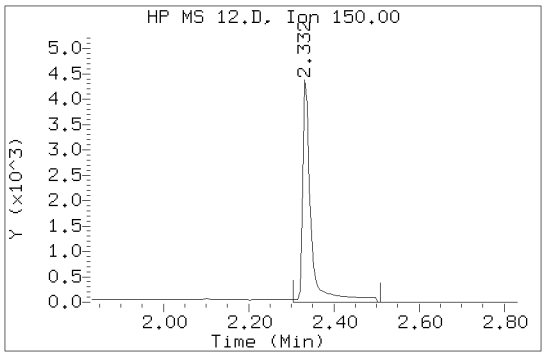
BEFORE

MASS
150
AREA
5905
HEIGHT
4379
30-Mar-2023
16:36
ALSHS
Server



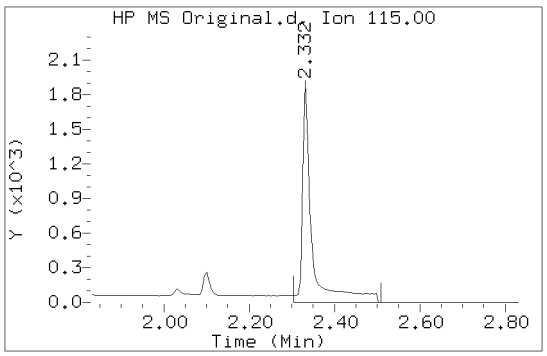
AFTER

MASS
150
AREA
5905
HEIGHT
4379
04-Apr-2023
12:25
ALSHS
Ser



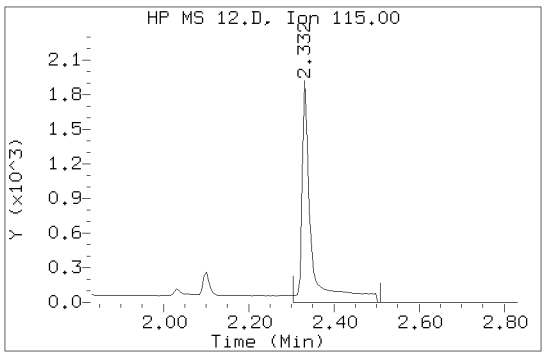
BEFORE

MASS
115
AREA
2856
HEIGHT
1919
30-Mar-2023
16:36
ALSHS
Server



AFTER

MASS
115
AREA
2856
HEIGHT
1919
04-Apr-2023
12:25
ALSHS
Ser

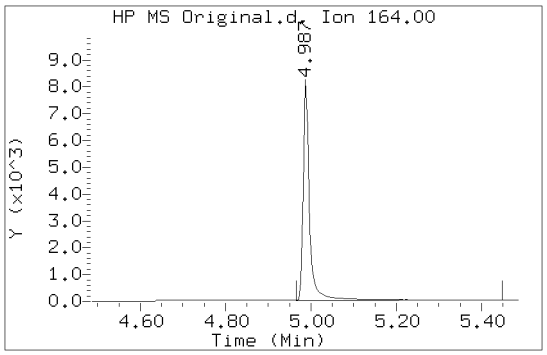


Acenaphthene-d10 (15067-26-2)

Reason Code:

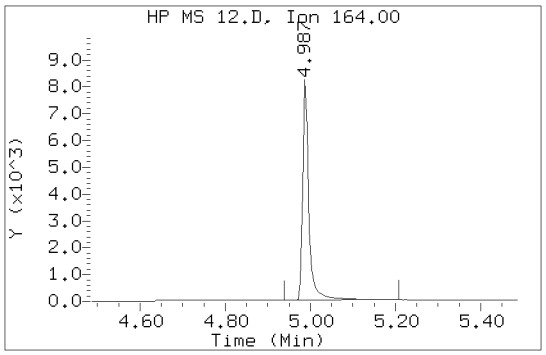
BEFORE

MASS
164
AREA
8985
HEIGHT
8246
30-Mar-2023
16:36
ALSHS
Server



AFTER

MASS
164
AREA
8381
HEIGHT
8218
04-Apr-2023
12:25
ALSHS
Ser



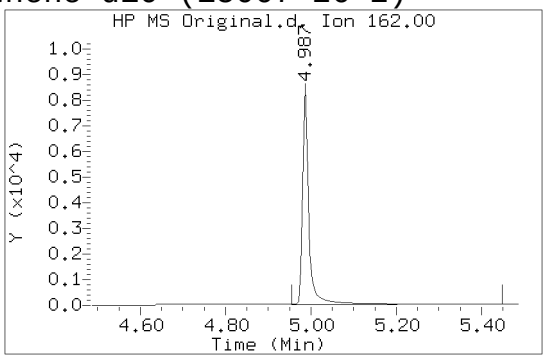
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\12.D
Inj Date : 30-MAR-2023 16:22
InstruID : SV6.i
LabSampID : 14DX-CCV_END

Acenaphthene-d10 (15067-26-2)

Reason Code:

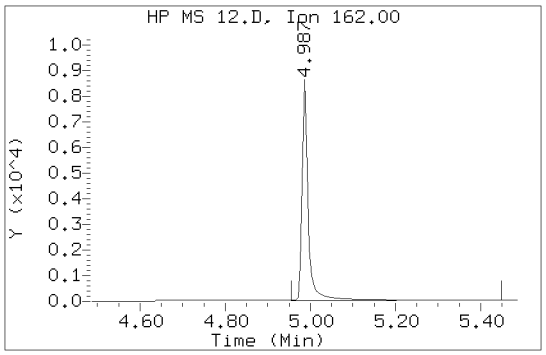
BEFORE

MASS
162
AREA
9141
HEIGHT
8627
30-Mar-2023
16:36
ALSHS
Server



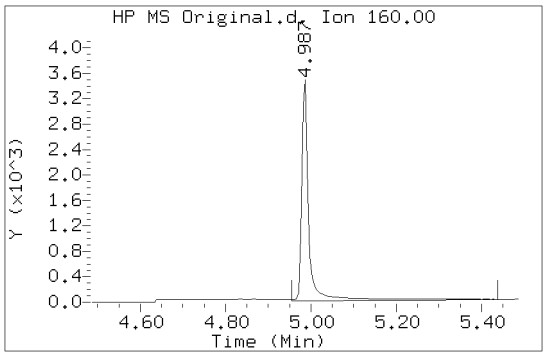
AFTER

MASS
162
AREA
9141
HEIGHT
8627
04-Apr-2023
12:25
ALSHS
Ser



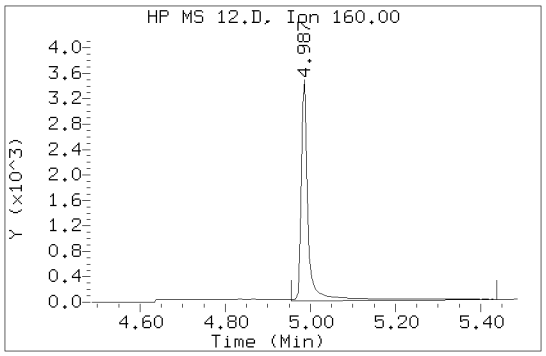
BEFORE

MASS
160
AREA
4144
HEIGHT
3476
30-Mar-2023
16:36
ALSHS
Server



AFTER

MASS
160
AREA
4144
HEIGHT
3476
04-Apr-2023
12:25
ALSHS
Ser

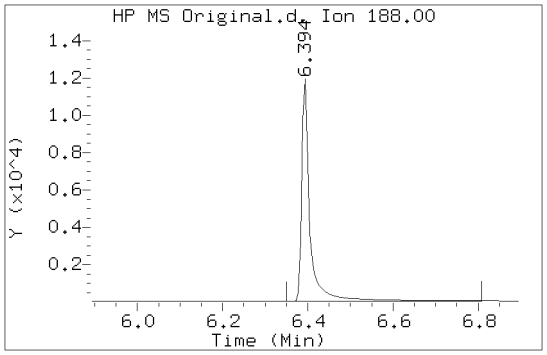


Phenanthrene-d10 (1517-22-2)

Reason Code:

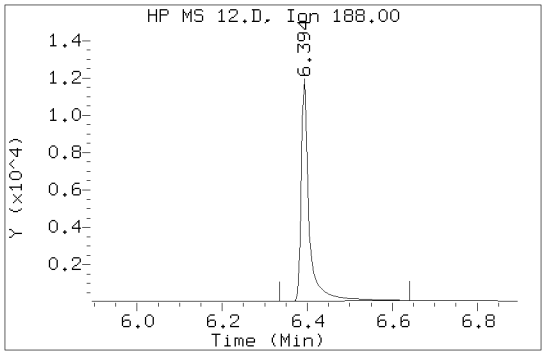
BEFORE

MASS
188
AREA
15930
HEIGHT
11908
30-Mar-2023
16:36
ALSHS
Server



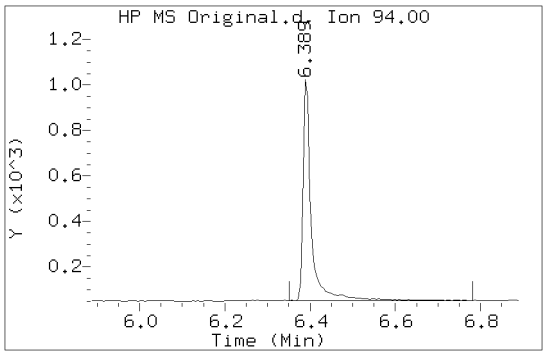
AFTER

MASS
188
AREA
15258
HEIGHT
11899
04-Apr-2023
12:25
ALSHS
Ser



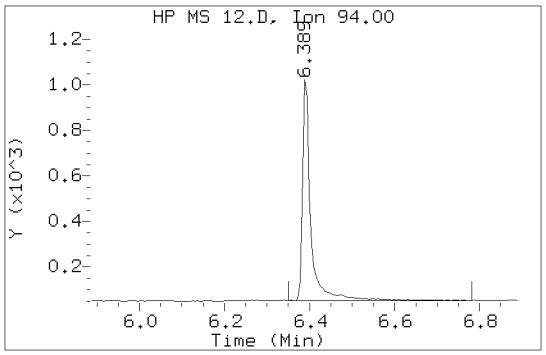
BEFORE

MASS
94
AREA
1315
HEIGHT
971
30-Mar-2023
16:36
ALSHS
Server



AFTER

MASS
94
AREA
1315
HEIGHT
971
04-Apr-2023
12:25
ALSHS
Ser



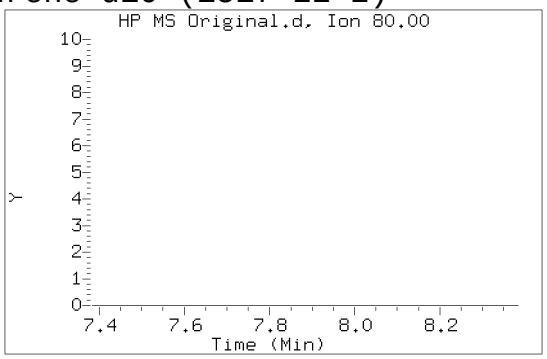
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\12.D
Inj Date : 30-MAR-2023 16:22
InstruID : SV6.i
LabSampID : 14DX-CCV_END

Phenanthrene-d10 (1517-22-2)

Reason Code:

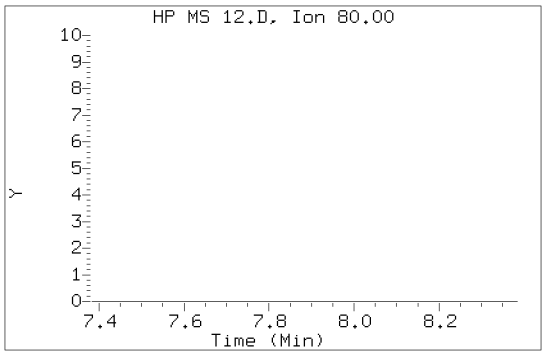
BEFORE

MASS
80
AREA
0
HEIGHT
0
30-Mar-2023
16:36
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
04-Apr-2023
12:25
ALSHS
Ser

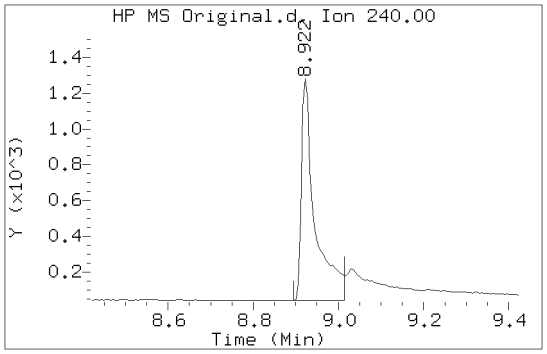


Chrysene-d12 (1719-03-5)

Reason Code:

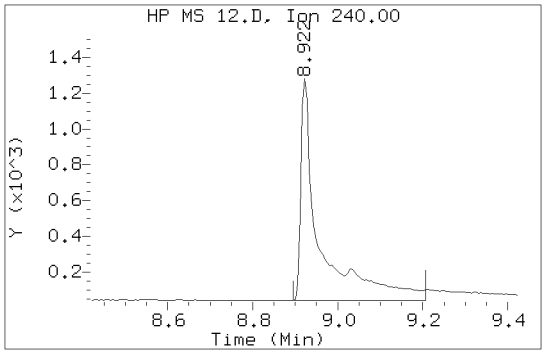
BEFORE

MASS
240
AREA
2718
HEIGHT
1236
30-Mar-2023
16:36
ALSHS
Server



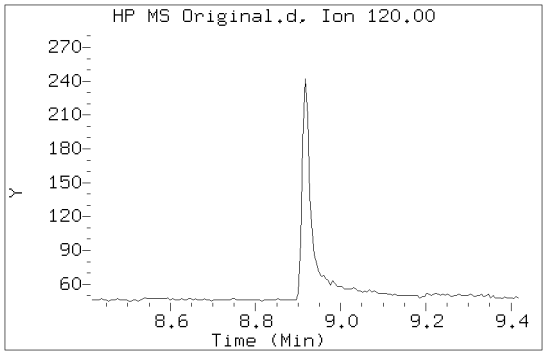
AFTER

MASS
240
AREA
3778
HEIGHT
1235
04-Apr-2023
12:25
ALSHS
Ser



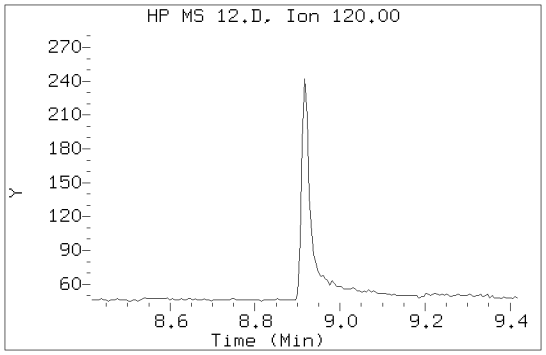
BEFORE

MASS
120
AREA
0
HEIGHT
0
30-Mar-2023
16:36
ALSHS
Server



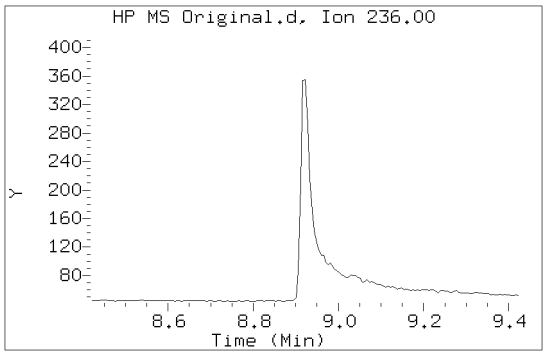
AFTER

MASS
120
AREA
0
HEIGHT
0
04-Apr-2023
12:25
ALSHS
Ser



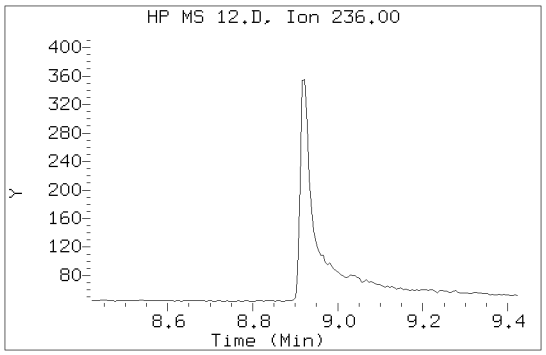
BEFORE

MASS
236
AREA
0
HEIGHT
0
30-Mar-2023
16:36
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
04-Apr-2023
12:25
ALSHS
Ser



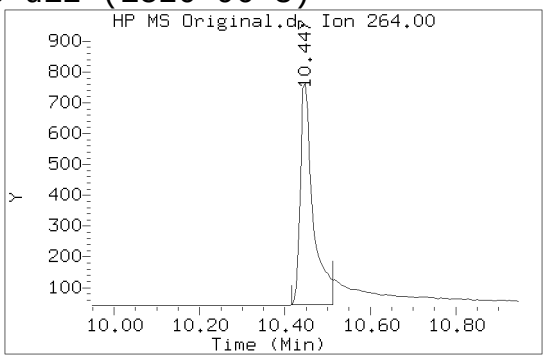
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\12.D
Inj Date : 30-MAR-2023 16:22
InstruID : SV6.i
LabSampID : 14DX-CCV_END

Perylene-d12 (1520-96-3)

Reason Code:

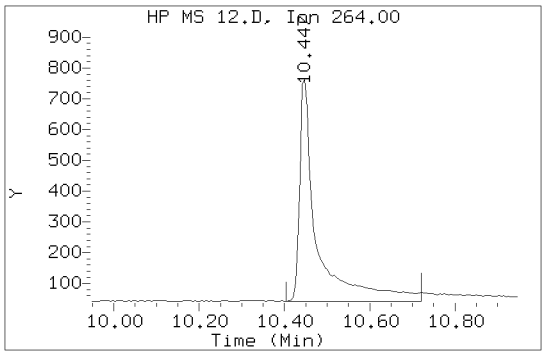
BEFORE

MASS
264
AREA
1482
HEIGHT
716
30-Mar-2023
16:36
ALSHS
Server



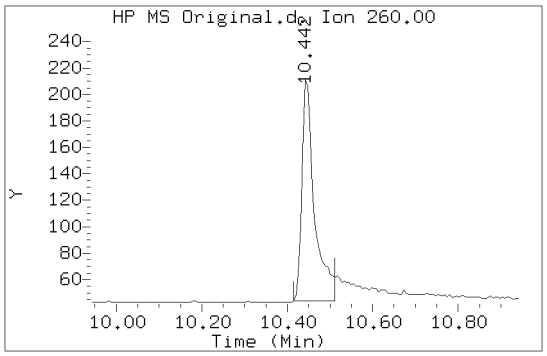
AFTER

MASS
264
AREA
2031
HEIGHT
719
04-Apr-2023
12:25
ALSHS
Ser



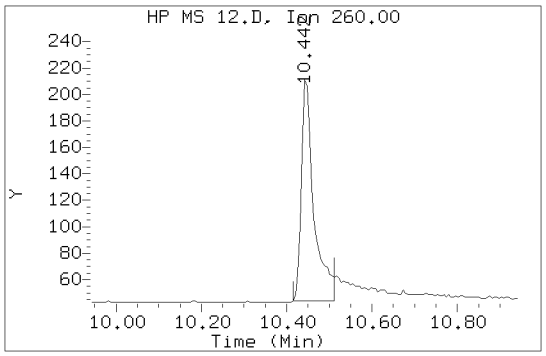
BEFORE

MASS
260
AREA
342
HEIGHT
167
30-Mar-2023
16:36
ALSHS
Server



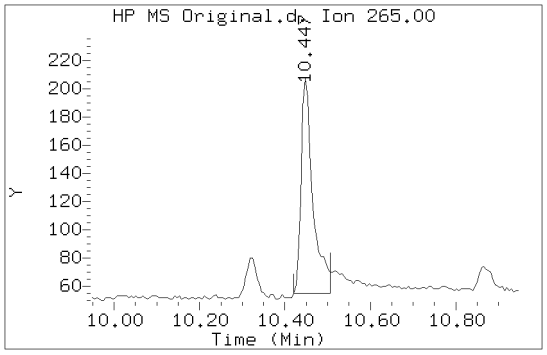
AFTER

MASS
260
AREA
342
HEIGHT
167
04-Apr-2023
12:25
ALSHS
Ser



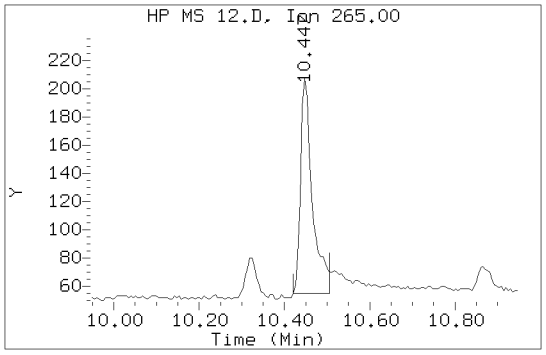
BEFORE

MASS
265
AREA
293
HEIGHT
152
30-Mar-2023
16:36
ALSHS
Server



AFTER

MASS
265
AREA
293
HEIGHT
152
04-Apr-2023
12:25
ALSHS
Ser

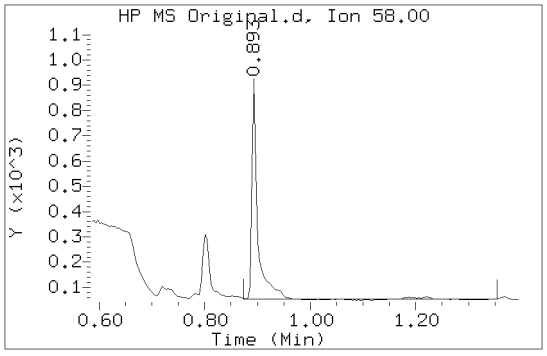


1,4-Dioxane ()

Reason Code:

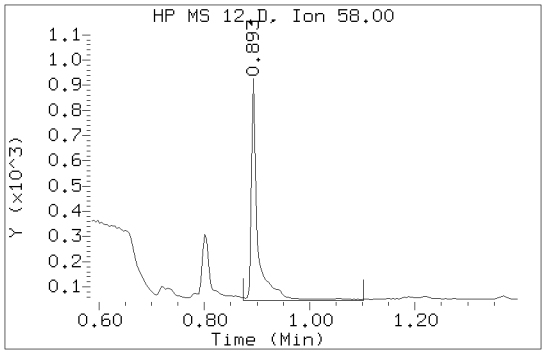
BEFORE

MASS
58
AREA
653
HEIGHT
872
30-Mar-2023
16:36
ALSHS
Server



AFTER

MASS
58
AREA
752
HEIGHT
879
04-Apr-2023
12:25
ALSHS
Ser



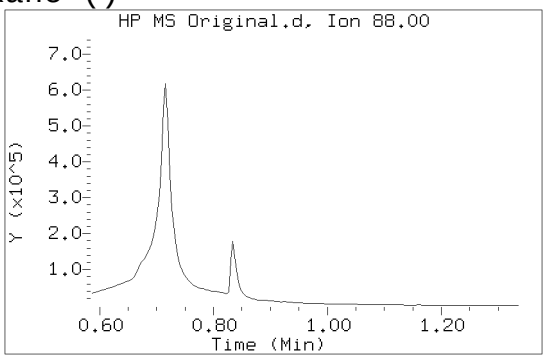
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\12.D
Inj Date : 30-MAR-2023 16:22
InstruID : SV6.i
LabSampID : 14DX-CCV_END

1,4-Dioxane ()

Reason Code:

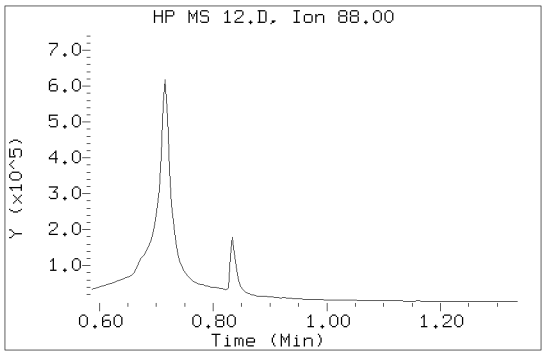
BEFORE

MASS
88
AREA
276058
HEIGHT
177960
30-Mar-2023
16:36
ALSHS
Server



AFTER

MASS
88
AREA
276058
HEIGHT
177960
04-Apr-2023
12:25
ALSHS
Ser

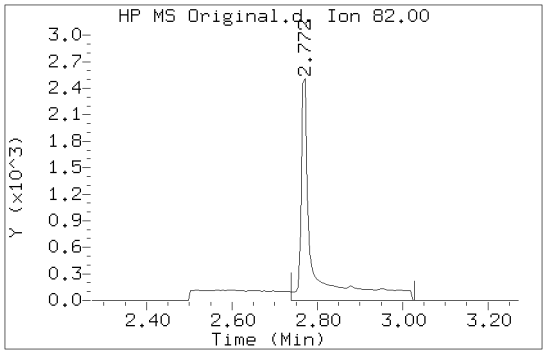


Nitrobenzene-d5 (4165-60-0)

Reason Code:

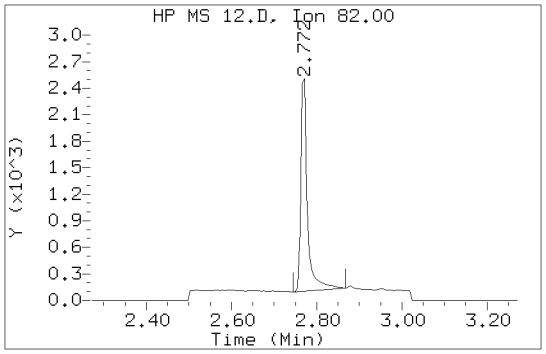
BEFORE

MASS
82
AREA
4628
HEIGHT
2508
30-Mar-2023
16:36
ALSHS
Server



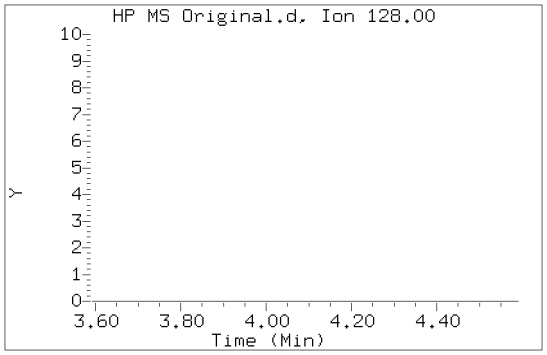
AFTER

MASS
82
AREA
2607
HEIGHT
2402
04-Apr-2023
12:25
ALSHS
Ser



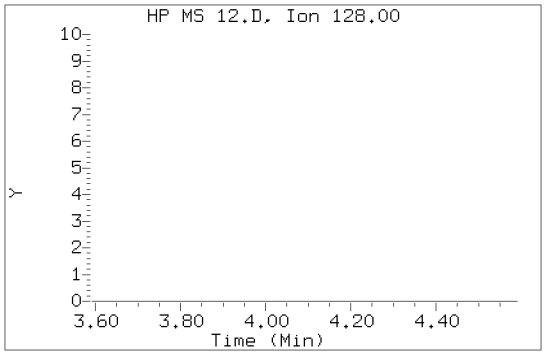
BEFORE

MASS
128
AREA
0
HEIGHT
0
30-Mar-2023
16:36
ALSHS
Server



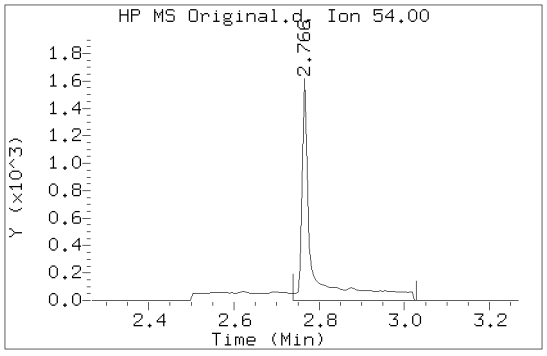
AFTER

MASS
128
AREA
0
HEIGHT
0
04-Apr-2023
12:25
ALSHS
Ser



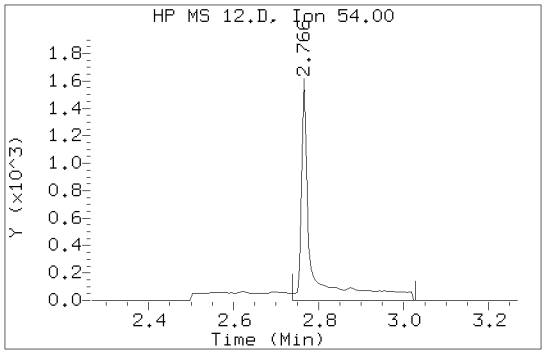
BEFORE

MASS
54
AREA
2626
HEIGHT
1617
30-Mar-2023
16:36
ALSHS
Server



AFTER

MASS
54
AREA
2626
HEIGHT
1617
04-Apr-2023
12:25
ALSHS
Ser



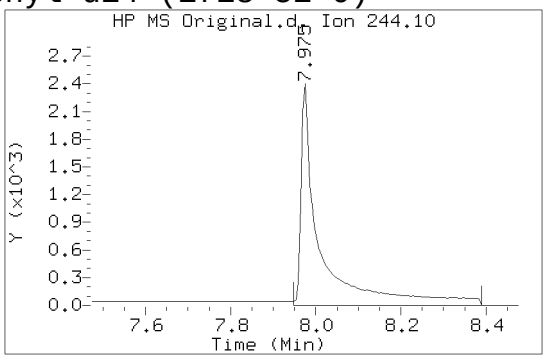
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\12.D
Inj Date : 30-MAR-2023 16:22
InstruID : SV6.i
LabSampID : 14DX-CCV_END

4-Terphenyl-d14 (1718-51-0)

Reason Code:

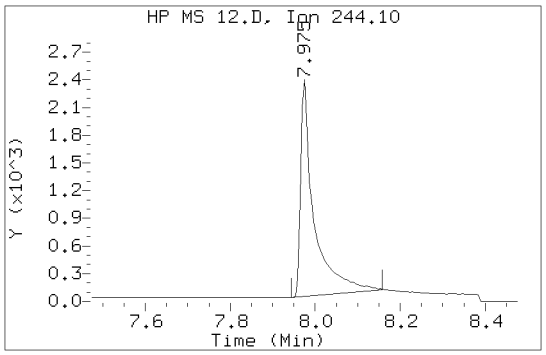
BEFORE

MASS
244.1
AREA
7457
HEIGHT
2401
30-Mar-2023
16:36
ALSHS
Server



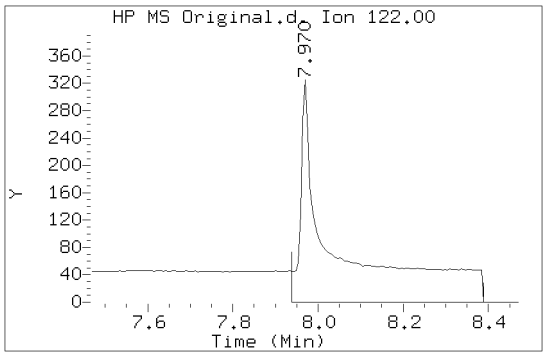
AFTER

MASS
244.1
AREA
5117
HEIGHT
2346
04-Apr-2023
12:25
ALSHS
Ser



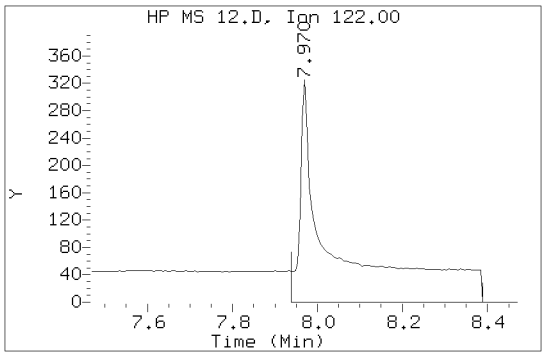
BEFORE

MASS
122
AREA
1800
HEIGHT
325
30-Mar-2023
16:36
ALSHS
Server



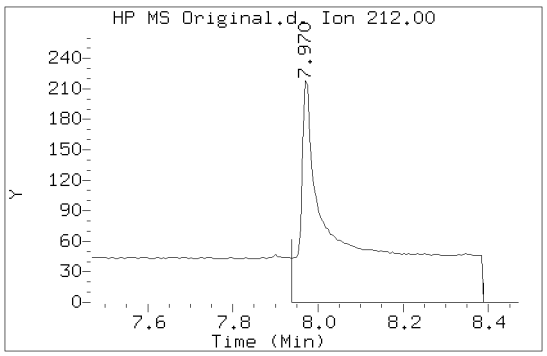
AFTER

MASS
122
AREA
1800
HEIGHT
325
04-Apr-2023
12:25
ALSHS
Ser



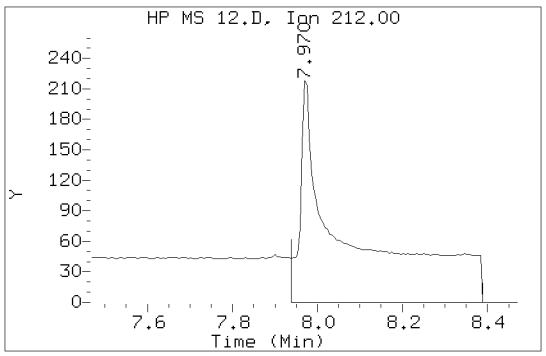
BEFORE

MASS
212
AREA
1643
HEIGHT
218
30-Mar-2023
16:36
ALSHS
Server



AFTER

MASS
212
AREA
1643
HEIGHT
218
04-Apr-2023
12:25
ALSHS
Ser

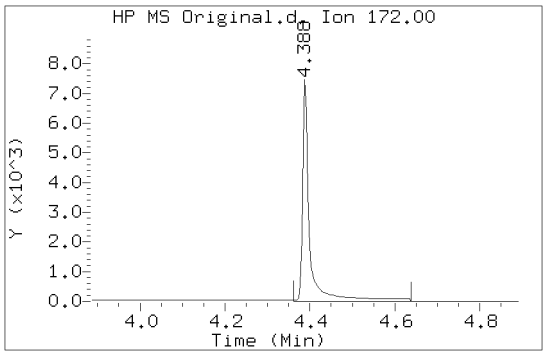


2-Fluorobiphenyl (321-60-8)

Reason Code:

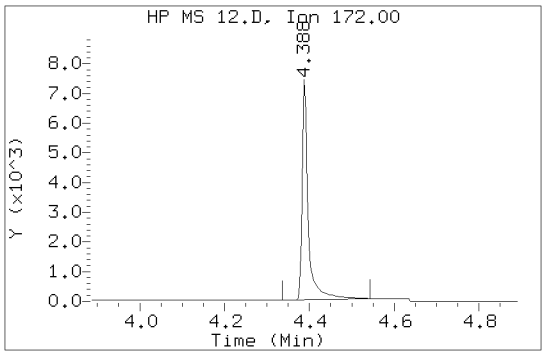
BEFORE

MASS
172
AREA
8704
HEIGHT
7464
30-Mar-2023
16:36
ALSHS
Server



AFTER

MASS
172
AREA
7434
HEIGHT
7405
04-Apr-2023
12:25
ALSHS
Ser



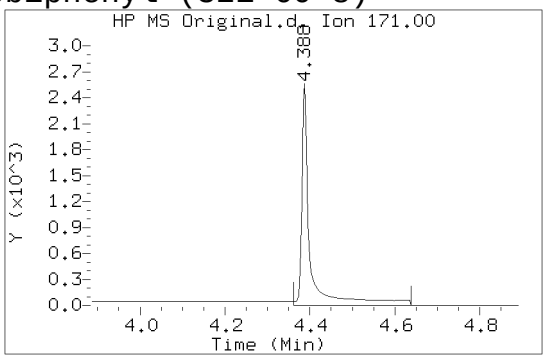
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\12.D
Inj Date : 30-MAR-2023 16:22
InstruID : SV6.i
LabSampID : 14DX-CCV_END

2-Fluorobiphenyl (321-60-8)

Reason Code:

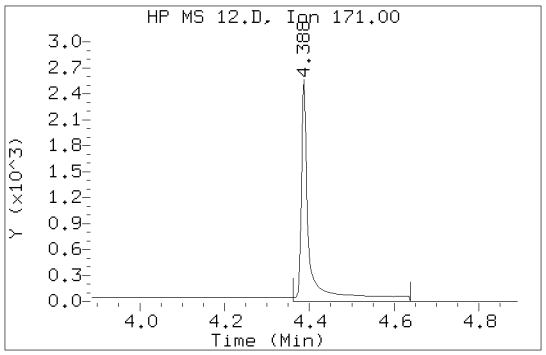
BEFORE

MASS
171
AREA
3504
HEIGHT
2564
30-Mar-2023
16:36
ALSHS
Server



AFTER

MASS
171
AREA
3504
HEIGHT
2564
04-Apr-2023
12:25
ALSHS
Ser



HS23031291 - ME - HG_W_DODICP_W_DOD

ALS WO# HS23031291

ALS Houston, US Date: 03-Apr-23

Form 11 - INTERNAL STANDARD ASSOCIATION

Client: Bhate Environmental Associates, Inc. Instrument:ICPMS06
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

Mass	Analyte	Assoc Int Standard 1	Assoc Int Standard 2	Mode
9	Beryllium	Lithium		Ar
11	Boron	Lithium		Ar
23	Sodium	Germanium		ArHe
24	Magnesium	Germanium		ArHe
27	Aluminum	Germanium		ArHe
39	Potassium	Germanium		ArHe
44	Calcium	Germanium		Ar
47	Titanium	Germanium		Ar
51	Vanadium	Germanium		ArHe
52	Chromium	Germanium		ArHe
55	Manganese	Germanium		ArHe
56	Iron	Germanium		ArHe
59	Cobalt	Germanium		ArHe
60	Nickel	Germanium		ArHe
63	Copper	Germanium		ArHe
66	Zinc	Germanium		ArHe
75	Arsenic	Germanium		ArHe
82	Selenium	Germanium		Ar
88	Strontium	Indium		Ar
95	Molybdenum	Indium		Ar
105	Palladium	Germanium		Ar
107	Silver	Indium		Ar
114	Cadmium	Indium		Ar
118	Tin	Indium		Ar
121	Antimony	Germanium		ArHe
137	Barium	Indium		Ar
205	Thallium	Bismuth		Ar
208	Lead	Bismuth		Ar

ALS Houston, US

Date: 03-Apr-23

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291
Start Date: 29-Mar-2023 End Date: 29-Mar-2023

Run ID:HG04_431249
Instrument:HG04
Method:SW7470A

Sample No.	D/F	Time	FileID	Analytes
ICCV 1	1	29-Mar-2023 12:06	HG04_431249 Raw Data_7202324	HG
ICV	1	29-Mar-2023 12:07	_7202325	HG
ICB	1	29-Mar-2023 12:09	_7202326	HG
CRA	1	29-Mar-2023 12:11	_7202327	HG
CCV 2	1	29-Mar-2023 12:16	_7202328	HG
CCB 1	1	29-Mar-2023 12:18	_7202329	HG
CCV 3	1	29-Mar-2023 12:46	_7202340	HG
CCB 2	1	29-Mar-2023 12:48	_7202341	HG
MBLK-191507	1	29-Mar-2023 13:00	_7202355	HG
LCS-191507	1	29-Mar-2023 13:02	_7202356	HG
LH18/24-SP650_032123	1	29-Mar-2023 13:03	_7202357	HG
ZZZZZZMS	1	29-Mar-2023 13:07	_7202359	HG
ZZZZZZMSD	1	29-Mar-2023 13:08	_7202360	HG
CCV 4	1	29-Mar-2023 13:11	_7202361	HG
CCB 3	1	29-Mar-2023 13:13	_7202362	HG
CCV 5	1	29-Mar-2023 13:41	_7202656	HG
CCB 4	1	29-Mar-2023 13:43	_7202657	HG
CCV 6	1	29-Mar-2023 14:01	_7202666	HG
CCB 5	1	29-Mar-2023 14:02	_7202667	HG
CCV 7	1	29-Mar-2023 14:33	_7202716	HG
CCB 6	1	29-Mar-2023 14:34	_7202717	HG
CCV 8	1	29-Mar-2023 14:58	_7202727	HG
CCB 7	1	29-Mar-2023 15:00	_7202728	HG
CCV 9	1	29-Mar-2023 15:44	_7203199	HG
CCB 8	1	29-Mar-2023 15:46	_7203200	HG
CCV 10	1	29-Mar-2023 16:15	_7203211	HG
CCB 9	1	29-Mar-2023 16:17	_7203212	HG
CCV 11	1	29-Mar-2023 16:43	_7203288	HG
CCB 10	1	29-Mar-2023 16:44	_7203289	HG

ALS Houston, US

Date: 03-Apr-23

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291
Start Date: 29-Mar-2023 End Date: 29-Mar-2023

Run ID:ICPMS06_431222
Instrument:ICPMS06
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS06_431222_Tune	1	29-Mar-2023 00:00	ICPMS06_431222_Tune_1	
CAL BLK	1	29-Mar-2023 10:34	016CALB.d_7201815	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	29-Mar-2023 10:36	017CALS.d_7201816	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	29-Mar-2023 10:38	018CALS.d_7201817	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	29-Mar-2023 10:40	019CALS.d_7201818	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	29-Mar-2023 10:42	020CALS.d_7201819	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	29-Mar-2023 10:44	021CALS.d_7201820	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	29-Mar-2023 10:48	023_ICV.d_7201822	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	29-Mar-2023 10:50	024LCV2.d_7201823	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	29-Mar-2023 10:52	025LCV5.d_7201824	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	29-Mar-2023 10:54	026_ICB.d_7201825	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	29-Mar-2023 11:00	028ICSA.d_7201856	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	29-Mar-2023 11:02	029ICSB.d_7201857	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCV 1	1	29-Mar-2023 11:13	032_CCV.d_7201893	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 1	1	29-Mar-2023 11:15	033_CCB.d_7201894	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
MBLK-191406	1	29-Mar-2023 11:18	034SMPL.d_7201895	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LCS-191406	1	29-Mar-2023 11:20	035SMPL.d_7201896	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LH18/24-SP650_032123	1	29-Mar-2023 11:22	036SMPL.d_7201897	AG AL AS BA BE CA CD CO CR FE K MG MN NI PB SB SE TL V ZN
LH18/24-SP650_032123SD	5	29-Mar-2023 11:24	037SMPL.d_7201898	AG AL AS BA BE CA CD CO CR FE K MG MN NI PB SB SE TL V ZN
LH18/24-SP650_032123MS	1	29-Mar-2023 11:26	038SMPL.d_7201899	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LH18/24-SP650_032123MSD	1	29-Mar-2023 11:28	039SMPL.d_7201900	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB TL V ZN
LH18/24-SP650_032123PDS	1	29-Mar-2023 11:30	040SMPL.d_7201901	AL AS BA BE CA CD CO CR FE K MG MN NI PB SB SE TL V ZN
LH18/24-SP650_032123MSD	1	29-Mar-2023 11:35	042SMPL.d_7201903	SE
CCV 2	1	29-Mar-2023 11:41	044_CCV.d_7201961	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 2	1	29-Mar-2023 11:43	045_CCB.d_7201962	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
LH18/24-SP650_032123	50	29-Mar-2023 11:45	046SMPL.d_7201963	NA
LH18/24-SP650_032123SD	250	29-Mar-2023 11:47	047SMPL.d_7201964	NA
LH18/24-SP650_032123PDS	50	29-Mar-2023 11:49	048SMPL.d_7201965	NA
CCV 3	1	29-Mar-2023 11:57	050_CCV.d_7201967	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
CCB 3	1	29-Mar-2023 11:59	051_CCB.d_7201968	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US Date: 03-Apr-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc. Run ID: HG04_431249
Project: Groundwater Treatment Plant Quarterly Effluent Samples Instrument: HG04
WorkOrder: HS23031291 Method: SW7470A

ICCV1	Date: 29-Mar-2023 12:06		Seq: 7202324	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.01	100	90-110	

ICV	Date: 29-Mar-2023 12:07		Seq: 7202325	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.76	95	90-110	

CCV2	Date: 29-Mar-2023 12:16		Seq: 7202328	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.98	100	90-110	

CCV3	Date: 29-Mar-2023 12:46		Seq: 7202340	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.95	99	90-110	

CCV4	Date: 29-Mar-2023 13:11		Seq: 7202361	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.98	100	90-110	

CCV5	Date: 29-Mar-2023 13:41		Seq: 7202656	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.01	100	90-110	

CCV6	Date: 29-Mar-2023 14:01		Seq: 7202666	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.99	100	90-110	

CCV7	Date: 29-Mar-2023 14:33		Seq: 7202716	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.95	99	90-110	

CCV8	Date: 29-Mar-2023 14:58		Seq: 7202727	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.9	98	90-110	

CCV9	Date: 29-Mar-2023 15:44		Seq: 7203199	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.99	100	90-110	

CCV10	Date: 29-Mar-2023 16:15		Seq: 7203211	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.09	102	90-110	

CCV11	Date: 29-Mar-2023 16:43		Seq: 7203288	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.12	102	90-110	

ALS Houston, US

Date: 03-Apr-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

Run ID: ICPMS06_431222
Instrument: ICPMS06
Method: SW6020A

ICV | Date: 29-Mar-2023 10:48 | Seq: 7201822 | ICV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	102.206	102	90-110	
Antimony	100	102.39	102	90-110	
Arsenic	100	105.965	106	90-110	
Barium	100	102.961	103	90-110	
Beryllium	100	101.498	101	90-110	
Cadmium	100	101.307	101	90-110	
Calcium	10000	9990.584	100	90-110	
Chromium	100	100.257	100	90-110	
Cobalt	100	101.436	101	90-110	
Iron	10000	9758.676	98	90-110	
Lead	100	104.725	105	90-110	
Magnesium	10000	9984.5	100	90-110	
Manganese	100	102.346	102	90-110	
Nickel	100	103.742	104	90-110	
Potassium	10000	10088.506	101	90-110	
Selenium	100	101.684	102	90-110	
Silver	100	96.436	96	90-110	
Sodium	10000	9860.35	99	90-110	
Thallium	100	109.292	109	90-110	
Vanadium	100	103.198	103	90-110	
Zinc	100	103.792	104	90-110	

CCV1 | Date: 29-Mar-2023 11:13 | Seq: 7201893 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.155	101	90-110	
Antimony	100	99.374	99	90-110	
Arsenic	100	101.971	102	90-110	
Barium	100	99.854	100	90-110	
Beryllium	100	99.576	100	90-110	
Cadmium	100	101.658	102	90-110	
Calcium	10000	10116.125	101	90-110	
Chromium	100	101.247	101	90-110	
Cobalt	100	100.746	101	90-110	
Iron	10000	10089.505	101	90-110	
Lead	100	102.779	103	90-110	
Magnesium	10000	10318.739	103	90-110	
Manganese	100	102.359	102	90-110	
Nickel	100	102.755	103	90-110	
Potassium	10000	10283.042	103	90-110	
Selenium	100	101.27	101	90-110	
Silver	100	103.759	104	90-110	
Sodium	10000	10204.509	102	90-110	
Thallium	100	103.094	103	90-110	
Vanadium	100	103.107	103	90-110	
Zinc	100	102.316	102	90-110	

CCV2 | Date: 29-Mar-2023 11:41 | Seq: 7201961 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	103.138	103	90-110	
Antimony	100	100.552	101	90-110	
Arsenic	100	98.678	99	90-110	
Barium	100	98.278	98	90-110	
Beryllium	100	106.043	106	90-110	
Cadmium	100	97.373	97	90-110	
Calcium	10000	10103.354	101	90-110	

ALS Houston, US Date: 03-Apr-23

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

Run ID: ICPMS06_431222
Instrument: ICPMS06
Method: SW6020A

CCV2 Date: 29-Mar-2023 11:41 Seq: 7201961 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Chromium	100	97.59	98	90-110	
Cobalt	100	96.91	97	90-110	
Iron	10000	9854.288	99	90-110	
Lead	100	99.181	99	90-110	
Magnesium	10000	9762.708	98	90-110	
Manganese	100	101.946	102	90-110	
Nickel	100	98.146	98	90-110	
Potassium	10000	10238.109	102	90-110	
Selenium	100	101.688	102	90-110	
Silver	100	100.105	100	90-110	
Sodium	10000	9717.98	97	90-110	
Thallium	100	98.651	99	90-110	
Vanadium	100	99.824	100	90-110	
Zinc	100	99.694	100	90-110	

CCV3 Date: 29-Mar-2023 11:57 Seq: 7201967 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	103.677	104	90-110	
Antimony	100	100.535	101	90-110	
Arsenic	100	99.486	100	90-110	
Barium	100	99.437	99	90-110	
Beryllium	100	105.738	106	90-110	
Cadmium	100	97.484	98	90-110	
Calcium	10000	10128.577	101	90-110	
Chromium	100	98.871	99	90-110	
Cobalt	100	98.074	98	90-110	
Iron	10000	9957.38	100	90-110	
Lead	100	99.229	99	90-110	
Magnesium	10000	9807.564	98	90-110	
Manganese	100	101.724	102	90-110	
Nickel	100	99.183	99	90-110	
Potassium	10000	10167.797	102	90-110	
Selenium	100	100.515	101	90-110	
Silver	100	99.989	100	90-110	
Sodium	10000	9693.181	97	90-110	
Thallium	100	100.242	100	90-110	
Vanadium	100	100.655	101	90-110	
Zinc	100	101.415	101	90-110	

ALS Houston, US

Date: 03-Apr-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

Run ID: HG04_431249
Instrument: HG04
Method: SW7470A

ICB	Date: 29-Mar-2023 12:09		Seq: 7202326	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB1	Date: 29-Mar-2023 12:18		Seq: 7202329	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB2	Date: 29-Mar-2023 12:48		Seq: 7202341	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
MBLK-191507	Date: 29-Mar-2023 13:00		Seq: 7202355	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB3	Date: 29-Mar-2023 13:13		Seq: 7202362	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB4	Date: 29-Mar-2023 13:43		Seq: 7202657	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB5	Date: 29-Mar-2023 14:02		Seq: 7202667	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB6	Date: 29-Mar-2023 14:34		Seq: 7202717	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB7	Date: 29-Mar-2023 15:00		Seq: 7202728	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB8	Date: 29-Mar-2023 15:46		Seq: 7203200	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB9	Date: 29-Mar-2023 16:17		Seq: 7203212	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB10	Date: 29-Mar-2023 16:44		Seq: 7203289	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

ALS Houston, US Date: 03-Apr-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

Run ID: ICPMS06_431222
Instrument: ICPMS06
Method: SW6020A

ICB | Date: 29-Mar-2023 10:54 | Seq: 7201825 | ICB | Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Aluminum	1.966	1.8	10	J
Antimony	5	0.4	5	U
Arsenic	5	0.4	5	U
Barium	5	1.9	5	U
Beryllium	2	0.2	2	U
Cadmium	2	0.2	2	U
Calcium	500	34	500	U
Chromium	5	0.4	5	U
Cobalt	5	0.1	5	U
Iron	200	12	200	U
Lead	5	0.6	5	U
Magnesium	200	10	200	U
Manganese	5	0.7	5	U
Nickel	5	0.6	5	U
Potassium	200	18	200	U
Selenium	5	1.1	5	U
Silver	5	0.2	5	U
Sodium	200	14	200	U
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	5	2	5	U

CCB1 | Date: 29-Mar-2023 11:15 | Seq: 7201894 | CCB | Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Aluminum	10	1.8	10	U
Antimony	2	0.4	2	U
Arsenic	2	0.4	2	U
Barium	4	1.9	4	U
Beryllium	2	0.2	2	U
Cadmium	2	0.2	2	U
Calcium	500	34	500	U
Chromium	4	0.4	4	U
Cobalt	5	0.2	5	U
Iron	200	12	200	U
Lead	2	0.6	2	U
Magnesium	200	10	200	U
Manganese	5	0.7	5	U
Nickel	2	0.6	2	U
Potassium	200	18	200	U
Selenium	2	1.1	2	U
Silver	2	0.2	2	U
Sodium	200	14	200	U
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

MBLK-191406 | Date: 29-Mar-2023 11:18 | Seq: 7201895 | MBLK | Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Aluminum	10	1.8	10	U
Antimony	5	0.4	5	U
Arsenic	5	0.4	5	U
Barium	5	1.9	5	U
Beryllium	2	0.2	2	U
Cadmium	2	0.2	2	U
Calcium	500	34	500	U

ALS Houston, US

Date: 03-Apr-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

Run ID: ICPMS06_431222
Instrument: ICPMS06
Method: SW6020A

MBLK-191406 Date: 29-Mar-2023 11:18 Seq: 7201895 MBLK Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Chromium	5	0.4	5	U
Cobalt	5	0.1	5	U
Iron	200	12	200	U
Lead	5	0.6	5	U
Magnesium	200	10	200	U
Manganese	5	0.7	5	U
Nickel	5	0.6	5	U
Potassium	200	18	200	U
Selenium	5	1.1	5	U
Silver	5	0.2	5	U
Sodium	200	14	200	U
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	5	2	5	U

CCB2 Date: 29-Mar-2023 11:43 Seq: 7201962 CCB Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Aluminum	10	1.8	10	U
Antimony	2	0.4	2	U
Arsenic	2	0.4	2	U
Barium	4	1.9	4	U
Beryllium	2	0.2	2	U
Cadmium	2	0.2	2	U
Calcium	500	34	500	U
Chromium	4	0.4	4	U
Cobalt	5	0.2	5	U
Iron	200	12	200	U
Lead	2	0.6	2	U
Magnesium	200	10	200	U
Manganese	5	0.7	5	U
Nickel	2	0.6	2	U
Potassium	200	18	200	U
Selenium	2	1.1	2	U
Silver	2	0.2	2	U
Sodium	58.84	14	200	J
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

CCB3 Date: 29-Mar-2023 11:59 Seq: 7201968 CCB Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Aluminum	10	1.8	10	U
Antimony	2	0.4	2	U
Arsenic	2	0.4	2	U
Barium	4	1.9	4	U
Beryllium	2	0.2	2	U
Cadmium	2	0.2	2	U
Calcium	500	34	500	U
Chromium	4	0.4	4	U
Cobalt	5	0.2	5	U
Iron	200	12	200	U
Lead	2	0.6	2	U
Magnesium	200	10	200	U
Manganese	5	0.7	5	U
Nickel	2	0.6	2	U

ALS Houston, US

Date: 03-Apr-23

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

Run ID: ICPMS06_431222
Instrument: ICPMS06
Method: SW6020A

CCB3 | Date: 29-Mar-2023 11:59 | Seq: 7201968 | CCB | Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Potassium	200	18	200	U
Selenium	2	1.1	2	U
Silver	2	0.2	2	U
Sodium	19.72	14	200	J
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

ALS Houston, US

Date: 03-Apr-23

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

Run ID:ICPMS06_431222
Instrument:ICPMS06
Method:SW6020A

ICSA	Date: 29-Mar-2023 11:00	Seq: 7201856	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	100300	100	
Antimony		0.25	0	
Arsenic		0.251	0	
Barium		0.703	0	
Beryllium		0.002	0	
Cadmium		0.279	0	
Calcium	100000	96030	96.0	
Chromium		1.584	0	
Cobalt		0.428	0	
Iron	100000	98940	98.9	
Lead		0.19	0	
Magnesium	100000	99850	99.9	
Manganese		0.763	0	
Nickel		0.878	0	
Potassium	100000	102400	102	
Selenium		0.338	0	
Silver		0.169	0	
Sodium	100000	99810	99.8	
Thallium		0.01	0	
Vanadium		0.079	0	
Zinc		2.684	0	

ICSAB	Date: 29-Mar-2023 11:02	Seq: 7201857	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	104100	104	
Antimony	100	100.8	101	
Arsenic	100	105	105	
Barium	100	106.2	106	
Beryllium	100	97.57	97.6	
Cadmium	100	100.3	100	
Calcium	110000	108800	98.9	
Chromium	100	103	103	
Cobalt	100	101.4	101	
Iron	110000	110200	100	
Lead	100	106.3	106	
Magnesium	110000	113900	104	
Manganese	100	104.6	105	
Nickel	100	100.4	100	
Potassium	110000	114400	104	
Selenium	100	106.8	107	
Silver	100	93.87	93.9	
Sodium	110000	113400	103	
Thallium	100	102.9	103	
Vanadium	100	106	106	
Zinc	100	103.6	104	

ALS Houston, US

Date: 03-Apr-23

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

Date Analyzed: 29-Mar-2023 13:08
Date Extracted: 29-Mar-2023 08:00
Units: ug/L

Matrix Spike: HS23031294-01MS
Client Sample ID:

Analysis Method: SW7470A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury	0.2000	5.280	5.000	106	5.350	5.000	107	82-119	1.32	20

ALS Houston, US

Date: 03-Apr-23

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

Date Analyzed: 29-Mar-2023 11:28
Date Extracted: 27-Mar-2023 14:00
Units: ug/L

Matrix Spike: HS23031291-01MS
Client Sample ID: LH18/24-SP650_032123

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aluminum	12.48	107.7	100.0	95.3	109.8	100.0	97.3	84-117	1.90	20
Antimony	5.000	48.38	50.00	96.5	46.90	50.00	93.5	85-117	3.10	20
Arsenic	5.000	51.42	50.00	102	49.80	50.00	98.9	84-116	3.20	20
Barium	92.41	139.8	50.00	94.8	143.7	50.00	103	86-114	2.72	20
Beryllium	2.000	48.62	50.00	97.2	49.57	50.00	99.1	83-121	1.93	20
Cadmium	2.000	47.60	50.00	95.2	48.19	50.00	96.3	87-115	1.22	20
Calcium	12490	17540	5000	101	17380	5000	97.8	87-118	0.931	20
Chromium	5.000	47.08	50.00	95.1	45.88	50.00	92.7	85-116	2.59	20
Cobalt	0.5580	47.96	50.00	94.8	46.21	50.00	91.3	86-115	3.71	20
Iron	316.3	5063	5000	94.9	4922	5000	92.1	87-118	2.82	20
Lead	5.000	52.08	50.00	104	51.06	50.00	102	88-115	1.99	20
Magnesium	11960	16780	5000	96.5	16740	5000	95.7	83-118	0.259	20
Manganese	64.81	112.4	50.00	95.1	111.1	50.00	92.6	87-115	1.14	20
Nickel	3.503	49.21	50.00	91.4	48.54	50.00	90.1	85-117	1.39	20
Potassium	1861	6871	5000	100	6758	5000	97.9	87-115	1.67	20
Silver	5.000	45.47	50.00	90.8	45.69	50.00	91.2	85-116	0.472	20
Sodium	550300	547000	5000	-66.2	544700	5000	-112	85-117	0.420	20
Thallium	0.3350	44.27	50.00	87.9	44.10	50.00	87.5	82-116	0.387	20
Vanadium	5.000	50.99	50.00	102	49.66	50.00	99.2	86-115	2.63	20
Zinc	11.12	60.32	50.00	98.4	58.73	50.00	95.2	83-119	2.68	20
Selenium	5.000	41.26	50.00	81.6	40.86	50.00	81.7	80-120	0.972	20

ALS Houston, US

Date: 03-Apr-23

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

Date Analyzed: 29-Mar-2023 11:30
Date Extracted: 27-Mar-2023 14:00
Units: ug/L

Lab Sample ID: HS23031291-01PDS
Client Sample ID: LH18/24-SP650_032123

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Aluminum	12.48	116.5	100	104	80-120
Antimony	0	97.28	100	97	80-120
Arsenic	0	104	100	104	80-120
Barium	92.41	193.9	100	102	80-120
Beryllium	0	106.6	100	107	80-120
Cadmium	0	100.6	100	101	80-120
Calcium	12490	22170	10000	97	80-120
Chromium	0	98	100	99	80-120
Cobalt	0.558	97.23	100	97	80-120
Iron	316.3	10110	10000	98	80-120
Lead	0	102.2	100	102	80-120
Magnesium	11960	22170	10000	102	80-120
Manganese	64.81	166.7	100	102	80-120
Nickel	3.503	99.9	100	96	80-120
Potassium	1861	12340	10000	105	80-120
Selenium	0	104.6	100	104	80-120
Thallium	0.335	104.2	100	104	80-120
Vanadium	0	105.1	100	105	80-120
Zinc	11.12	110.5	100	99	80-120
Sodium	573700	1066000	500000	98	80-120

ALS Houston, US

Date: 03-Apr-23

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

Date Analyzed: 29-Mar-2023 13:02
Date Extracted: 29-Mar-2023 08:00
Units: ug/L

Lab Sample ID: LCS-191507
Analysis Method: SW7470A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Mercury	5	5.27	105	82-119

ALS Houston, US

Date: 03-Apr-23

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

Date Analyzed: 29-Mar-2023 11:20
Date Extracted: 27-Mar-2023 14:00
Units: ug/L

Lab Sample ID: LCS-191406
Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Aluminum	100	108	108	84-117
Antimony	50	50.56	101	85-117
Arsenic	50	51.37	103	84-116
Barium	50	50.41	101	86-114
Beryllium	50	49.55	99	83-121
Cadmium	50	51.26	103	87-115
Calcium	5000	4936	99	87-118
Chromium	50	48.94	98	85-116
Cobalt	50	50.5	101	86-115
Iron	5000	5006	100	87-118
Lead	50	51.75	103	88-115
Magnesium	5000	5158	103	83-118
Manganese	50	51.13	102	87-115
Nickel	50	52.16	104	85-117
Potassium	5000	5055	101	87-115
Selenium	50	51.61	103	80-120
Silver	50	50.31	101	85-116
Sodium	5000	5037	101	85-117
Thallium	50	42.59	85	82-116
Vanadium	50	51.36	103	86-115
Zinc	50	53.47	107	83-119

ALS Houston, US

Date: 03-Apr-23

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Effluent Samples
WorkOrder: HS23031291

Date Analyzed: 29-Mar-2023 11:24
Date Extracted: 27-Mar-2023 14:00
Units: ug/L

Lab Sample ID: HS23031291-01SD
Client Sample ID:LH18/24-SP650_032123

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Aluminum	12.48		11.5	J	8	
Antimony	0	U	0	U	0	
Arsenic	0	U	0	U	0	
Barium	92.41		88.56		4	
Beryllium	0	U	0	U	0	
Cadmium	0	U	0	U	0	
Calcium	12490		12310		1	
Chromium	0	U	0	U	0	
Cobalt	0.558	J	0.542	J	3	
Iron	316.3		323.1	J	2	
Lead	0	U	0	U	0	
Magnesium	11960		11960		0	
Manganese	64.81		64.75		0	
Nickel	3.503	J	3.189	J	9	
Potassium	1861		1851		1	
Selenium	0	U	0	U	0	
Silver	0	U	0	U	0	
Thallium	0.335	J	0	U	0	
Vanadium	0	U	0	U	0	
Zinc	11.12		11.85	J	7	
Sodium	573700		579800		1	

Report Generated By Teledyne Leeman QuickTrace

Analyst: ALSHS.NoUser,

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\032923AW.wszf

Creation Date: 3/29/2023 11:27:52 AM

Comment:

Results

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
Calibration Blank					STD	03/29/23 11:53:13 am	0.000	-3	235.20		
	Replicates	0.4	0.1	-13.1	1.0						
Standard #1 (0.2 ppb)					STD	03/29/23 11:54:55 am	0.200	1183	1.24	0.40%	
	Replicates	1178.1	1170.7	1204.3	1179.3						
Standard #2 (0.5 ppb)					STD	03/29/23 11:56:37 am	0.500	2989	1.08	1.66%	
	Replicates	2950.6	2973.9	3020.9	3008.9						
Standard #3 (2.0 ppb)					STD	03/29/23 11:58:20 am	2.000	11564	0.52	-1.56%	
	Replicates	11483.1	11554.7	11602.5	11617.5						
Standard #4 (5.0 ppb)					STD	03/29/23 12:00:03 pm	5.000	29968	0.60	2.06%	
	Replicates	29808.8	30183.2	30048.6	29829.8						
Standard #5 (10.0 ppb)					STD	03/29/23 12:01:46 pm	10.000	58460	0.39	-0.45%	
	Replicates	58191.3	58381.8	58730.6	58535.6						

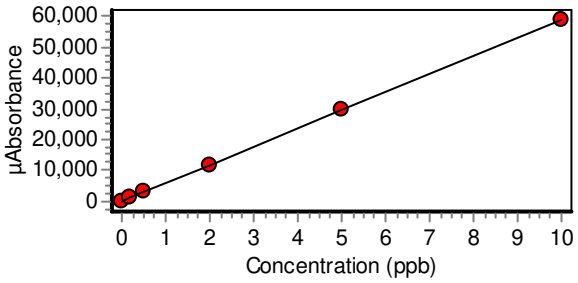
Calibration

Equation: Abs = 5871.968x + 3.960

R2: 0.99982 RSE: 1.81%

SEE: 342.8812

Flags:



ICCV					UNK	03/29/23 12:06:17 pm	5.010	29421	0.50		
	Replicates	29226.8	29409.5	29580.7	29468.9						
ICV					UNK	03/29/23 12:07:59 pm	4.760	27983	0.67		
	Replicates	27755.6	27908.7	28158.5	28110.7						
ICB					UNK	03/29/23 12:09:40 pm	-0.004	-20	33.96		
	Replicates	-21.1	-26.4	-8.2	-23.8						
CRA					UNK	03/29/23 12:11:22 pm	0.197	1163	1.55		
	Replicates	1139.4	1160.3	1182.3	1168.7						
CCV					UNK	03/29/23 12:16:18 pm	4.980	29236	0.49		
	Replicates	29058.4	29222.2	29405.3	29259.9						
CCB					UNK	03/29/23 12:18:02 pm	-0.006	-32	40.44		
	Replicates	-29.5	-52.4	-27.2	-18.4						
MBLK-191506					UNK	03/29/23 12:25:28 pm	0.007	42	19.87		
	Replicates	35.7	47.8	36.0	50.2						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
LCS-191506					UNK	03/29/23 12:29:48 pm	4.800	28184	1.49		
	Replicates	28322.6	28561.7	28268.7	27582.9						
HS23031173-01					UNK	03/29/23 12:31:30 pm	0.852	5009	0.67		
	Replicates	5010.4	5045.5	5014.5	4964.5						
HS23031263-01					UNK	03/29/23 12:33:13 pm	-0.001	0	201.17		
	Replicates	-5.5	8.2	-8.4	5.4						
HS23031266-01					UNK	03/29/23 12:34:55 pm	0.527	3099	0.52		
	Replicates	3077.6	3097.9	3116.6	3102.4						
HS23031300-01					UNK	03/29/23 12:36:38 pm	0.007	43	49.34		
	Replicates	52.5	65.2	23.3	30.9						
HS23031300-02					UNK	03/29/23 12:38:21 pm	0.009	54	27.44		
	Replicates	46.1	70.8	40.0	59.0						
HS23031300-03					UNK	03/29/23 12:40:04 pm	0.012	74	24.30		
	Replicates	81.1	92.3	70.4	52.3						
HS23031300-04					UNK	03/29/23 12:41:45 pm	0.008	51	24.27		
	Replicates	44.2	44.2	67.6	46.8						
HS23031369-01					UNK	03/29/23 12:43:27 pm	0.000	1	155.90		
	Replicates	27.4	-13.7	23.5	-31.5						
CCV					UNK	03/29/23 12:46:48 pm	4.950	29080	0.50		
	Replicates	28897.9	29027.8	29209.2	29183.8						
CCB					UNK	03/29/23 12:48:32 pm	-0.006	-30	30.90		
	Replicates	-16.2	-41.3	-29.1	-32.3						
HS23031404-01					UNK	03/29/23 12:53:31 pm	0.010	60	22.97		
	Replicates	73.8	44.1	55.9	66.1						
HS23031404-01MS					UNK	03/29/23 12:55:13 pm	5.350	31409	0.90		
	Replicates	31255.0	31125.5	31484.7	31772.5						
HS23031404-01MSD					UNK	03/29/23 12:56:55 pm	5.430	31910	0.43		
	Replicates	31970.0	32043.1	31907.7	31719.3						
HS23031444-01					UNK	03/29/23 12:58:37 pm	-0.002	-6	77.70		
	Replicates	-0.9	1.2	-9.2	-16.0						
MBLK-191507					UNK	03/29/23 01:00:19 pm	0.006	39	11.80		
	Replicates	36.3	40.0	44.8	35.8						
LCS-191507					UNK	03/29/23 01:02:01 pm	5.270	30952	0.61		
	Replicates	30733.1	30858.7	31084.3	31132.4						
HS23031291-01					UNK	03/29/23 01:03:44 pm	0.001	8	303.80		
	Replicates	-7.2	14.1	4.3	20.5						
HS23031294-01					UNK	03/29/23 01:05:27 pm	0.004	26	77.46		
	Replicates	7.8	16.6	34.8	46.0						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23031294-01MS					UNK	03/29/23 01:07:09 pm	5.280	30992	2.00		
	Replicates	30326.1	30618.8	31389.6	31634.4						
HS23031294-01MSD					UNK	03/29/23 01:08:53 pm	5.350	31392	1.31		
	Replicates	31696.5	31706.6	30830.6	31335.6						
CCV					UNK	03/29/23 01:11:31 pm	4.980	29234	0.69		
	Replicates	28981.6	29162.6	29390.6	29402.2						
CCB					UNK	03/29/23 01:13:15 pm	-0.001	-4	70.37		
	Replicates	-1.5	0.2	-11.8	-2.0						
MBLK-191509					UNK	03/29/23 01:18:43 pm	0.000	4	615.86		
	Replicates	-12.1	17.5	2.5	9.8						
LCS-191509					UNK	03/29/23 01:24:34 pm	5.110	30003	0.27		
	Replicates	29916.8	30014.7	30107.8	29974.4						
HS23030943-01					UNK	03/29/23 01:26:16 pm	-0.002	-7	225.11		
	Replicates	-43.3	2.6	12.4	0.0						
HS23030944-01					UNK	03/29/23 01:27:58 pm	-0.001	0	137.85		
	Replicates	-4.9	-2.7	8.3	-1.9						
HS23031099-01					UNK	03/29/23 01:29:40 pm	-0.002	-6	236.65		
	Replicates	-5.5	-38.8	14.6	6.0						
HS23031330-11					UNK	03/29/23 01:31:22 pm	-0.003	-14	66.89		
	Replicates	-8.3	-30.4	-17.0	-2.0						
HS23031330-12					UNK	03/29/23 01:33:04 pm	0.000	3	610.54		
	Replicates	4.8	25.7	-7.5	-11.3						
HS23031330-13					UNK	03/29/23 01:34:46 pm	-0.004	-17	23.67		
	Replicates	-21.1	-22.0	-11.1	-15.6						
HS23031330-14					UNK	03/29/23 01:36:29 pm	0.000	2	950.83		
	Replicates	-8.8	25.5	-15.9	7.2						
HS23031330-15					UNK	03/29/23 01:38:12 pm	0.004	30	53.51		
	Replicates	10.6	40.3	29.1	40.1						
CCV					UNK	03/29/23 01:41:17 pm	5.010	29408	0.25		
	Replicates	29329.7	29374.4	29501.7	29427.3						
CCB					UNK	03/29/23 01:43:01 pm	-0.005	-25	39.90		
	Replicates	-26.5	-8.7	-35.3	-31.3						
HS23031330-16					UNK	03/29/23 01:46:41 pm	0.002	14	204.35		
	Replicates	-4.1	2.0	43.8	15.8						
HS23031342-01					UNK	03/29/23 01:48:24 pm	0.040	240	2.90		
	Replicates	243.3	241.0	245.0	229.8						
HS23031474-05					UNK	03/29/23 01:50:06 pm	0.003	21	16.88		
	Replicates	22.7	23.3	19.1	17.5						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23031474-05MS					UNK	03/29/23 01:51:48 pm	4.820	28287	1.54		
	Replicates	27818.8	28028.6	28555.0	28744.4						
HS23031474-05MSD					UNK	03/29/23 01:53:29 pm	5.190	30471	0.23		
	Replicates	30407.8	30418.3	30557.8	30500.4						
HS23031474-06					UNK	03/29/23 01:55:11 pm	0.007	43	34.41		
	Replicates	26.2	53.2	37.6	53.8						
HS23031474-07					UNK	03/29/23 01:56:53 pm	0.009	57	21.64		
	Replicates	48.9	74.0	54.8	50.8						
HS23031481-01					UNK	03/29/23 01:58:35 pm	-0.003	-13	64.62		
	Replicates	-24.7	-12.1	1.5	-17.3						
CCV					UNK	03/29/23 02:01:04 pm	4.990	29326	0.67		
	Replicates	29086.9	29244.8	29488.7	29482.3						
CCB					UNK	03/29/23 02:02:47 pm	0.000	2	806.62		
	Replicates	8.8	-19.8	24.0	-6.6						
MBLK-191510					UNK	03/29/23 02:08:02 pm	0.003	23	102.10		
	Replicates	2.1	21.6	48.4	18.8						
LCS-191510					UNK	03/29/23 02:12:37 pm	4.780	28057	0.15		
	Replicates	28105.6	28025.3	28080.8	28016.6						
MBLKF1-191388					UNK	03/29/23 02:14:20 pm	-0.003	-15	86.85		
	Replicates	-37.1	-15.0	-1.2	-5.0						
HS23030874-01					UNK	03/29/23 02:16:03 pm	-0.001	-4	161.51		
	Replicates	-8.5	-0.2	11.6	-17.8						
HS23030874-02					UNK	03/29/23 02:17:45 pm	-0.001	-4	158.63		
	Replicates	-7.0	-21.0	7.6	4.0						
HS23030874-02MS					UNK	03/29/23 02:19:29 pm	5.320	31226	0.87		
	Replicates	30925.8	31087.4	31359.2	31532.4						
HS23030874-02MSD					UNK	03/29/23 02:21:10 pm	4.920	28910	1.41		
	Replicates	28576.8	28585.7	29056.1	29421.3						
HS23030874-03					UNK	03/29/23 02:22:52 pm	-0.004	-22	35.42		
	Replicates	-21.1	-23.8	-32.4	-10.2						
HS23030874-04					UNK	03/29/23 02:24:35 pm	-0.005	-25	37.60		
	Replicates	-20.4	-41.2	-19.8	-18.4						
HS23030874-05					UNK	03/29/23 02:26:17 pm	-0.005	-28	32.04		
	Replicates	-39.1	-33.8	-18.0	-20.6						
CCV					UNK	03/29/23 02:33:09 pm	4.950	29070	0.41		
	Replicates	28957.2	28978.2	29160.9	29182.2						
CCB					UNK	03/29/23 02:34:53 pm	-0.009	-50	29.74		
	Replicates	-31.4	-68.7	-43.5	-55.0						

Sample Name		Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23030874-08		UNK	03/29/23 02:41:12 pm	-0.003	-15	36.22		
Replicates	-13.4	-20.4	-5.5	-19.0				
HS23030874-09		UNK	03/29/23 02:42:54 pm	-0.002	-5	180.07		
Replicates	19.1	-12.7	-11.7	-14.5				
HS23030874-10		UNK	03/29/23 02:44:37 pm	-0.001	-2	338.70		
Replicates	1.3	-25.9	21.9	-4.9				
HS23030874-11		UNK	03/29/23 02:46:19 pm	-0.003	-11	65.14		
Replicates	-24.7	-12.6	-5.0	-2.6				
HS23031071-01		UNK	03/29/23 02:48:02 pm	-0.003	-15	38.90		
Replicates	-5.3	-14.6	-23.0	-18.0				
HS23031071-02		UNK	03/29/23 02:49:44 pm	0.003	23	77.56		
Replicates	4.1	34.0	18.8	36.6				
HS23031071-03		UNK	03/29/23 02:51:27 pm	0.007	45	15.62		
Replicates	39.9	39.2	46.0	52.8				
HS23031071-04		UNK	03/29/23 02:53:10 pm	0.006	37	18.45		
Replicates	38.8	30.8	33.0	44.2				
HS23031299-04		UNK	03/29/23 02:54:52 pm	0.006	39	8.60		
Replicates	36.3	39.1	37.3	43.1				
CCV		UNK	03/29/23 02:58:50 pm	4.900	28761	0.67		
Replicates	28529.1	28677.2	28892.6	28946.9				
CCB		UNK	03/29/23 03:00:34 pm	-0.004	-21	64.18		
Replicates	-14.6	-35.4	-1.2	-31.6				
MBLK-191533		UNK	03/29/23 03:23:27 pm	0.015	94	5.02		
Replicates	93.8	97.8	96.3	87.6				
LCS-191533		UNK	03/29/23 03:25:09 pm	5.200	30524	0.63		
Replicates	30301.0	30447.1	30597.3	30749.9				
MBLKT1-191442		UNK	03/29/23 03:26:51 pm	-0.001	-1	198.99		
Replicates	-11.7	10.7	-4.5	2.3				
MBLKT2-191466		UNK	03/29/23 03:28:34 pm	0.000	5	208.54		
Replicates	11.8	10.9	11.1	-13.9				
MBLKT3-191343		UNK	03/29/23 03:30:16 pm	-0.001	1	194.20		
Replicates	7.2	-5.3	-4.7	5.3				
MBLKT4-191467		UNK	03/29/23 03:31:58 pm	0.003	24	61.17		
Replicates	29.7	20.3	35.7	8.3				
MBLKT5-191342		UNK	03/29/23 03:33:41 pm	0.004	25	47.39		
Replicates	27.1	36.9	12.9	22.9				
HS23031406-01		UNK	03/29/23 03:35:23 pm	0.001	12	93.90		
Replicates	6.3	15.6	5.1	20.3				

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23031447-01					UNK	03/29/23 03:37:06 pm	-0.012	-64	5.49		
	Replicates	-58.6	-64.9	-67.3	-64.7						
HS23031447-02					UNK	03/29/23 03:38:49 pm	0.008	52	26.71		
	Replicates	37.4	61.9	64.1	45.5						
CCV					UNK	03/29/23 03:44:26 pm	4.990	29285	0.62		
	Replicates	29069.5	29204.3	29400.1	29467.3						
CCB					UNK	03/29/23 03:46:10 pm	-0.004	-18	40.96		
	Replicates	-10.9	-24.4	-25.8	-9.0						
HS23031447-03					UNK	03/29/23 03:50:53 pm	0.006	40	59.95		
	Replicates	47.6	50.3	52.7	7.7						
HS23031447-04					UNK	03/29/23 03:52:36 pm	0.006	41	26.42		
	Replicates	30.3	47.2	51.3	35.5						
HS23031447-05					UNK	03/29/23 03:54:18 pm	-0.001	0	360.05		
	Replicates	2.8	18.1	-8.1	-11.9						
HS23031447-06					UNK	03/29/23 03:56:01 pm	0.020	119	12.34		
	Replicates	111.9	103.3	128.1	134.1						
HS23031465-01					UNK	03/29/23 03:57:43 pm	-0.001	0	171.74		
	Replicates	9.5	-4.5	0.7	-6.3						
HS23031465-02					UNK	03/29/23 03:59:25 pm	-0.004	-17	83.67		
	Replicates	-37.2	-25.5	-3.9	-0.9						
HS23031465-03					UNK	03/29/23 04:01:08 pm	-0.002	-7	112.65		
	Replicates	-14.2	-12.8	11.4	-12.0						
HS23031465-04					UNK	03/29/23 04:02:50 pm	0.003	21	69.44		
	Replicates	35.5	24.9	6.9	17.8						
HS23031465-05					UNK	03/29/23 04:04:32 pm	0.001	8	367.09		
	Replicates	12.1	-12.6	22.4	9.8						
HS23031465-06					UNK	03/29/23 04:06:15 pm	-0.009	-51	18.14		
	Replicates	-45.0	-51.7	-43.5	-65.5						
CCV					UNK	03/29/23 04:15:31 pm	5.090	29907	0.30		
	Replicates	29825.0	29837.5	29962.5	30004.3						
CCB					UNK	03/29/23 04:17:15 pm	-0.006	-29	8.52		
	Replicates	-24.8	-28.8	-30.8	-30.5						
HS23031465-07					UNK	03/29/23 04:21:37 pm	0.001	8	113.98		
	Replicates	1.6	8.3	9.7	12.7						
HS23031465-08					UNK	03/29/23 04:23:20 pm	0.004	29	22.36		
	Replicates	37.1	26.2	27.6	24.8						
HS23031487-01					UNK	03/29/23 04:25:03 pm	0.002	18	58.10		
	Replicates	8.1	18.4	27.6	16.6						

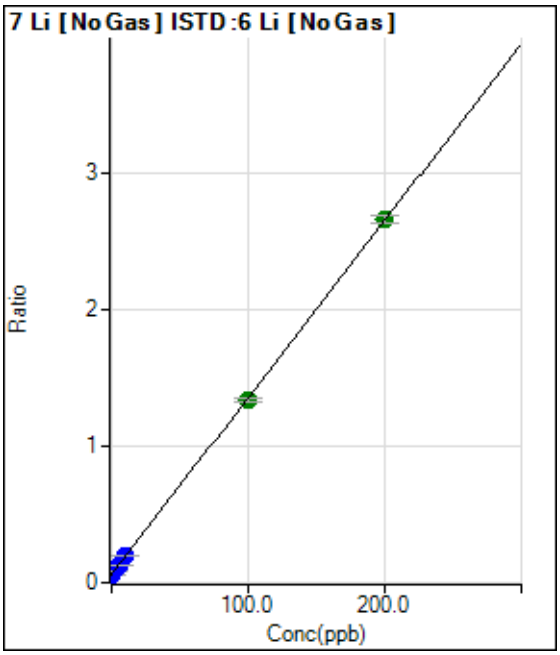
Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23031566-01					UNK	03/29/23 04:26:46 pm	-0.004	-21	64.03		
	Replicates	-19.1	-2.0	-21.0	-40.7						
HS23031566-01MS					UNK	03/29/23 04:35:39 pm	5.330	31312	0.25		
	Replicates	31415.9	31296.1	31309.7	31227.9						
HS23031566-01MSD					UNK	03/29/23 04:37:21 pm	4.780	28074	0.16		
	Replicates	28065.6	28018.1	28123.9	28088.1						
CCV					UNK	03/29/23 04:43:06 pm	5.120	30048	0.17		
	Replicates	29987.8	30041.2	30109.4	30051.8						
CCB					UNK	03/29/23 04:44:50 pm	-0.010	-53	24.78		
	Replicates	-46.1	-46.8	-45.8	-74.6						

Calibration for 298_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\032923A.b\
Analysis File: 032923A.batch.bin
DA Date-Time: 3/30/2023 12:07:06 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	291CALB.d	CAL BLK	3/29/2023 11:52:52 PM
2	292CALS.d	2/10/200	3/29/2023 11:54:50 PM
3	293CALS.d	5/25/500	3/29/2023 11:56:48 PM
4	294CALS.d	10/50/100	3/29/2023 11:58:45 PM
5	295CALS.d	100/500/10K	3/30/2023 12:00:42 AM
6	296CALS.d	200/1000/20K	3/30/2023 12:02:35 AM

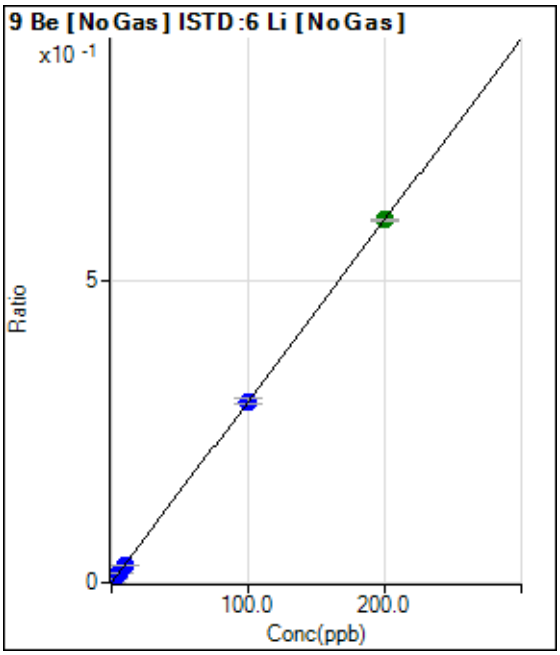
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94211.11	0.0602	P	2.1
2	☐	2.000	1.941	134240.57	0.0853	P	2.3
3	☐	5.000	4.976	194175.97	0.1246	P	1.7
4	☐	10.000	10.082	299273.59	0.1907	P	0.4
5	☐	100.000	99.002	2008016.59	1.3414	A	1.8
6	☐	200.000	200.496	3818830.46	2.6549	A	2.1

y = 0.0129 * x + 0.0602
R = 1.0000
DL = 0.2962
BEC = 4.652

Weight: <None>
Min Conc: <None>

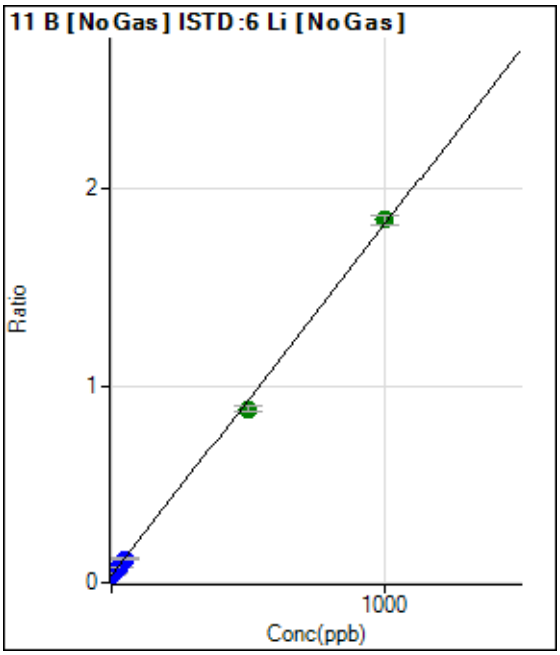


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	173.2
2	☐	2.000	1.926	9124.68	0.0058	P	2.9
3	☐	5.000	4.992	23417.95	0.0150	P	2.5
4	☐	10.000	9.792	46252.34	0.0295	P	1.6
5	☐	100.000	99.804	449518.72	0.3003	P	3.2
6	☐	200.000	200.110	866586.81	0.6022	A	0.7

y = 0.0030 * x + 4.2254E-006
R = 1.0000
DL = 0.007296
BEC = 0.001404

Weight: <None>
Min Conc: <None>

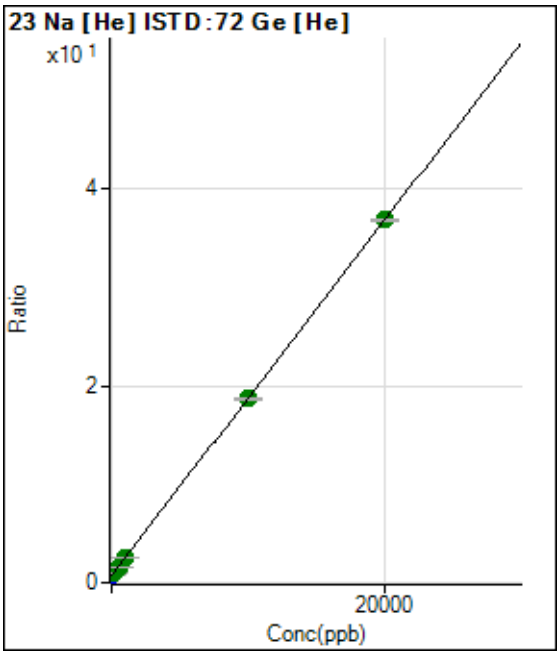
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58203.54	0.0372	P	2.2
2	☐	10.000	8.598	82616.52	0.0525	P	3.2
3	☐	25.000	22.990	121830.53	0.0782	P	0.4
4	☐	50.000	47.154	190230.08	0.1212	P	2.4
5	☐	500.000	473.934	1319662.74	0.8817	A	3.1
6	☐	1000.000	1013.239	2650285.90	1.8427	A	2.6

y = 0.0018 * x + 0.0372
R = 0.9995
DL = 1.407
BEC = 20.87

Weight: <None>
Min Conc: <None>

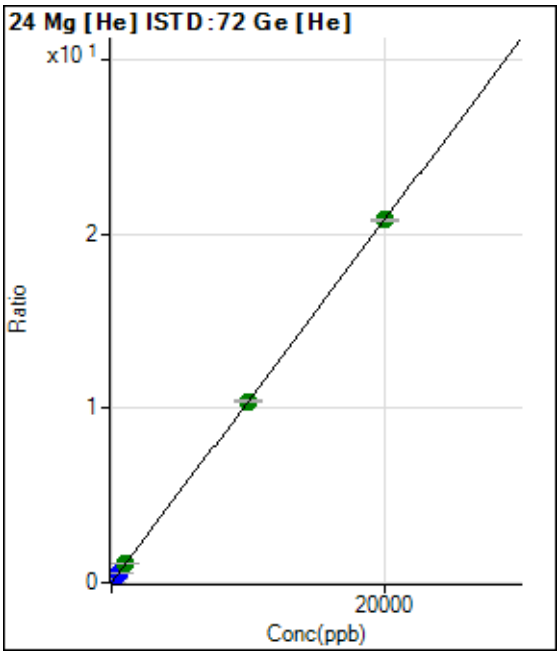


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	650308.96	0.7191	P	1.6
2	☐	200.000	190.279	954997.38	1.0624	A	1.8
3	☐	500.000	489.082	1454752.58	1.6014	A	0.8
4	☐	1000.000	997.051	2249301.68	2.5177	A	2.5
5	☐	10000.00	9950.581	16552948.50	18.6692	A	0.6
6	☐	20000.00	20025.22	31893578.69	36.8430	A	0.7

y = 0.0018 * x + 0.7191
R = 1.0000
DL = 18.76
BEC = 398.6

Weight: <None>
Min Conc: <None>

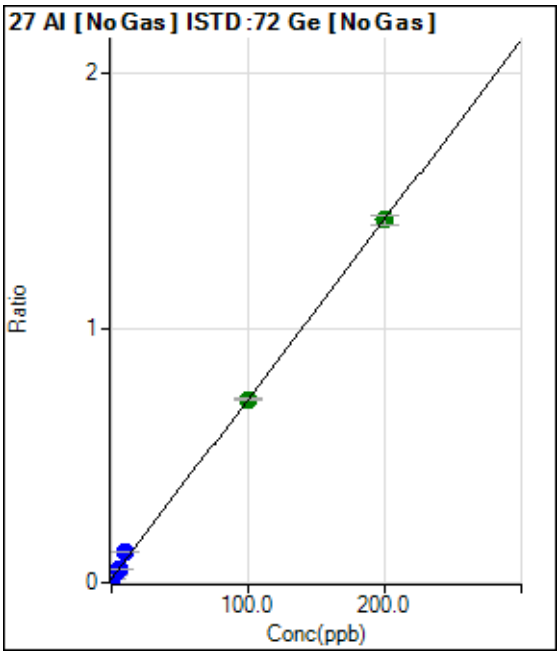
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	846.71	0.0009	P	2.3
2	☐	200.000	211.594	198934.70	0.2213	P	0.9
3	☐	500.000	534.320	506351.37	0.5574	P	0.6
4	☐	1000.000	1025.225	954687.33	1.0686	A	1.7
5	☐	10000.00	9990.160	9224917.36	10.4047	A	1.2
6	☐	20000.00	20002.68	18033272.65	20.8317	A	0.5

y = 0.0010 * x + 9.3594E-004
R = 1.0000
DL = 0.06212
BEC = 0.8987

Weight: <None>
Min Conc: <None>

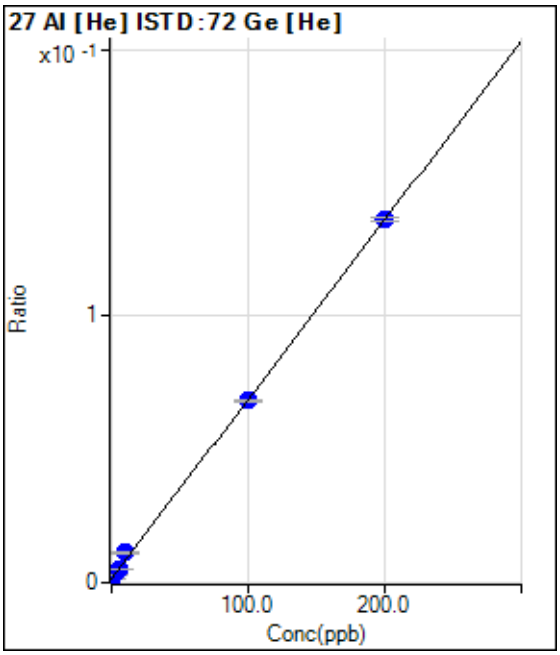


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	49334.54	0.0160	P	0.8
2	☐	2.000	2.015	92266.95	0.0302	P	0.6
3	☐	5.000	5.059	160116.56	0.0516	P	2.6
4	☐	10.000	14.776	365180.11	0.1202	P	2.4
5	☐	100.000	99.822	2158782.42	0.7203	A	1.3
6	☐	200.000	199.849	4197883.69	1.4260	A	2.5

y = 0.0071 * x + 0.0160
R = 0.9997
DL = 0.05741
BEC = 2.261

Weight: <None>
Min Conc: <None>

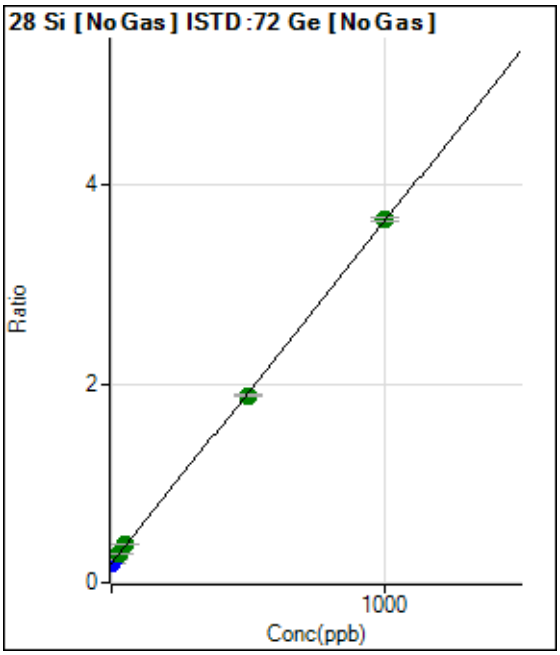
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1376.79	0.0015	P	8.8
2	☐	2.000	1.946	2543.61	0.0028	P	8.3
3	☐	5.000	5.212	4567.50	0.0050	P	4.4
4	☐	10.000	14.526	10087.15	0.0113	P	8.4
5	☐	100.000	99.197	60508.58	0.0682	P	0.6
6	☐	200.000	200.170	117869.94	0.1362	P	1.0

y = 6.7264E-004 * x + 0.0015
R = 0.9997
DL = 0.5994
BEC = 2.262

Weight: <None>
Min Conc: <None>

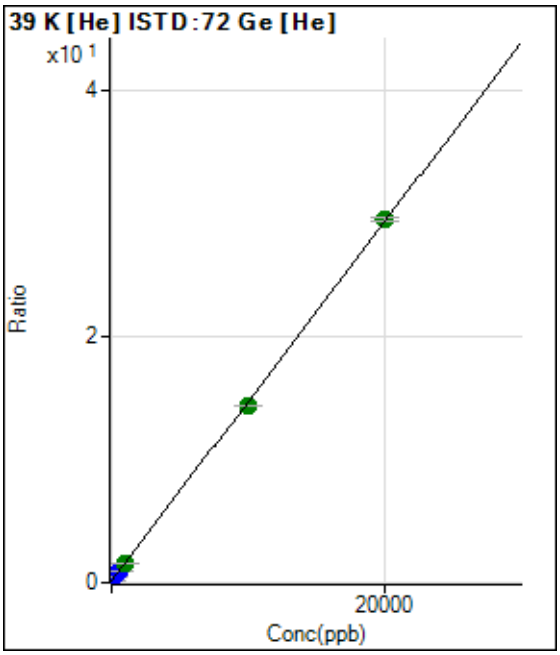


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	600907.74	0.1943	P	2.0
2	☐	10.000	11.917	719585.64	0.2353	P	1.9
3	☐	25.000	27.965	900430.79	0.2905	A	3.9
4	☐	50.000	55.084	1166373.42	0.3838	A	2.1
5	☐	500.000	490.668	5641911.17	1.8824	A	0.8
6	☐	1000.000	1004.318	10743909.84	3.6495	A	1.2

y = 0.0034 * x + 0.1943
R = 0.9999
DL = 3.456
BEC = 56.47

Weight: <None>
Min Conc: <None>

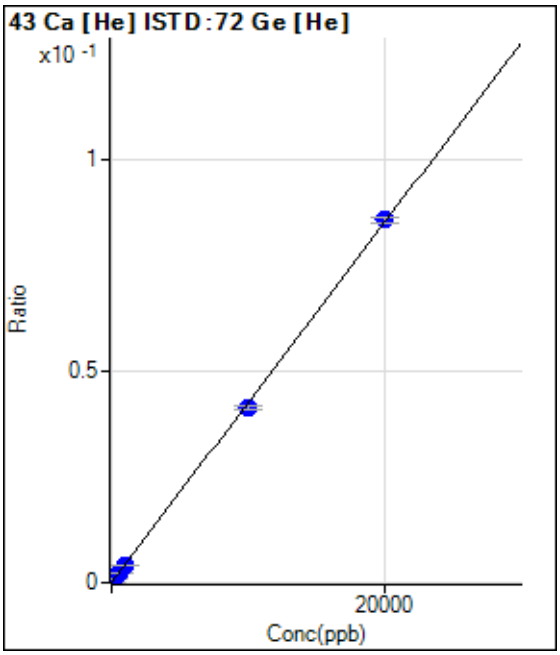
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	122805.52	0.1358	P	1.1
2	☐	200.000	206.120	392034.03	0.4361	P	1.4
3	☐	500.000	512.501	801733.97	0.8825	P	0.8
4	☐	1000.000	1018.968	1447687.17	1.6204	A	0.7
5	☐	10000.00	9762.933	12732477.31	14.3602	A	0.7
6	☐	20000.00	20117.21	25490303.79	29.4461	A	1.2

y = 0.0015 * x + 0.1358
R = 0.9999
DL = 3.047
BEC = 93.2

Weight: <None>
Min Conc: <None>

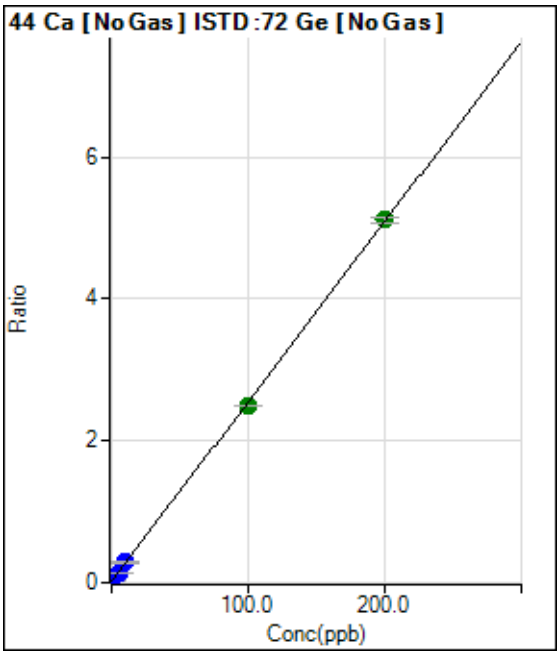


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	60.00	0.0001	P	49.0
2	☐	200.000	231.623	943.38	0.0010	P	2.5
3	☐	500.000	492.475	1960.18	0.0022	P	10.2
4	☐	1000.000	965.531	3720.59	0.0042	P	4.2
5	☐	10000.00	9702.442	36572.31	0.0413	P	1.5
6	☐	20000.00	20150.37	74096.19	0.0856	P	1.7

y = 4.2447E-006 * x + 6.6041E-005
R = 0.9998
DL = 22.89
BEC = 15.56

Weight: <None>
Min Conc: <None>

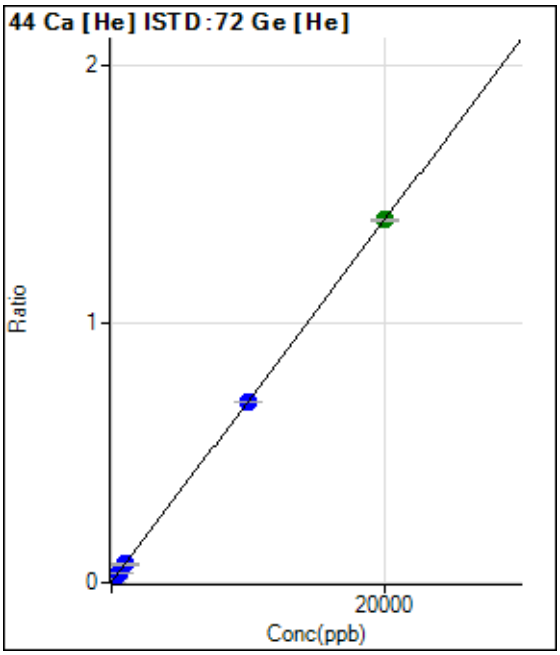
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51322.44	0.0166	P	0.9
2	☐	2.000	2.077	211746.39	0.0692	P	0.8
3	☐	5.000	5.157	456569.89	0.1473	P	2.3
4	☐	10.000	10.614	867415.69	0.2855	P	2.5
5	☐	100.000	97.813	7478009.06	2.4950	A	0.7
6	☐	200.000	201.058	15045378.94	5.1109	A	1.8

y = 0.0253 * x + 0.0166
R = 0.9999
DL = 0.01696
BEC = 0.6549

Weight: <None>
Min Conc: <None>

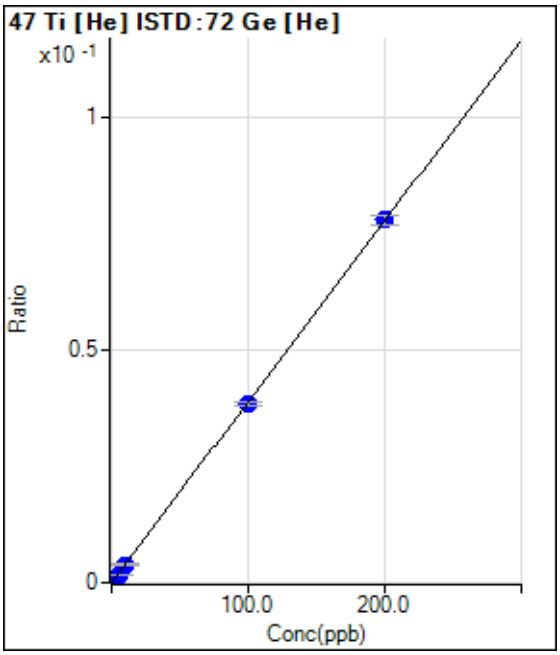


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1263.42	0.0014	P	4.0
2	☐	200.000	198.737	13757.12	0.0153	P	3.3
3	☐	500.000	505.637	33414.33	0.0368	P	1.6
4	☐	1000.000	989.797	63138.57	0.0707	P	1.0
5	☐	10000.00	9972.731	620081.84	0.6994	P	0.5
6	☐	20000.00	20014.01	1213809.88	1.4021	A	0.9

y = 6.9988E-005 * x + 0.0014
R = 1.0000
DL = 2.378
BEC = 19.95

Weight: <None>
Min Conc: <None>

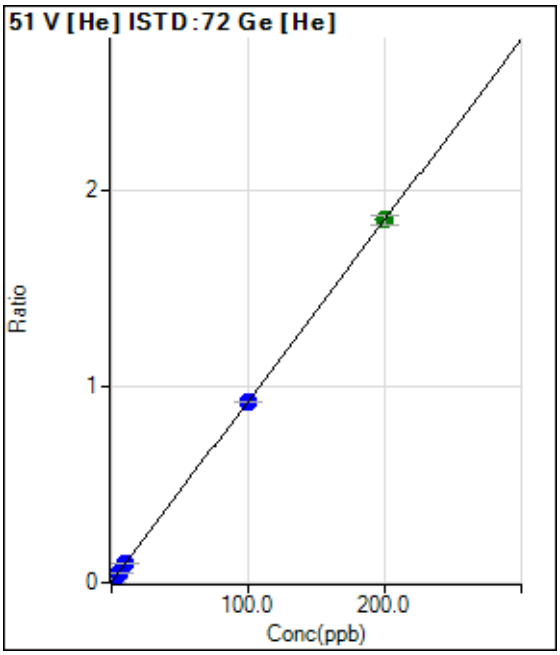
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	33.5
2	☐	2.000	2.092	746.70	0.0008	P	14.9
3	☐	5.000	4.581	1630.12	0.0018	P	6.1
4	☐	10.000	9.893	3443.85	0.0039	P	7.9
5	☐	100.000	98.685	33948.92	0.0383	P	2.4
6	☐	200.000	200.673	67382.13	0.0778	P	2.8

y = 3.8781E-004 * x + 1.8363E-005
R = 1.0000
DL = 0.04759
BEC = 0.04735

Weight: <None>
Min Conc: <None>

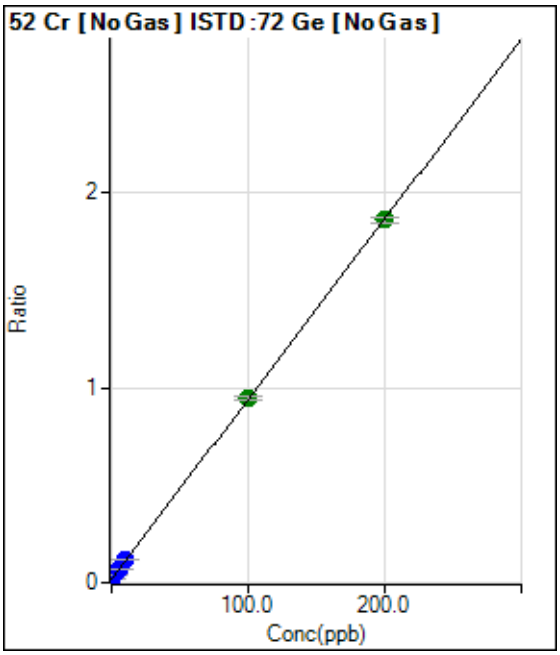


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3029.24	0.0034	P	5.5
2	☐	2.000	1.960	19276.92	0.0214	P	1.0
3	☐	5.000	4.901	44144.11	0.0486	P	1.4
4	☐	10.000	9.881	84478.61	0.0946	P	1.0
5	☐	100.000	99.587	818005.25	0.9226	P	0.7
6	☐	200.000	200.215	1602602.92	1.8515	A	2.6

y = 0.0092 * x + 0.0034
R = 1.0000
DL = 0.06021
BEC = 0.363

Weight: <None>
Min Conc: <None>

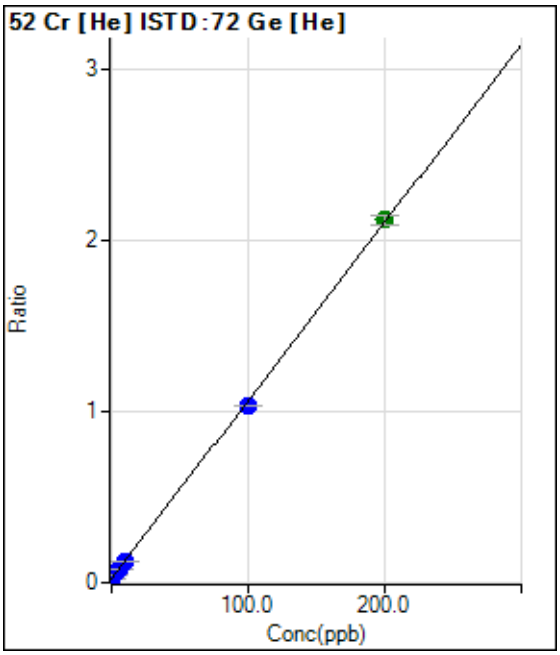
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53795.91	0.0174	P	3.3
2	☐	2.000	2.133	113545.55	0.0371	P	0.6
3	☐	5.000	5.114	200605.35	0.0647	P	0.9
4	☐	10.000	10.525	348557.46	0.1147	P	1.9
5	☐	100.000	100.729	2844203.39	0.9489	A	1.7
6	☐	200.000	199.605	5485331.79	1.8633	A	1.7

y = 0.0092 * x + 0.0174
R = 1.0000
DL = 0.186
BEC = 1.881

Weight: <None>
Min Conc: <None>

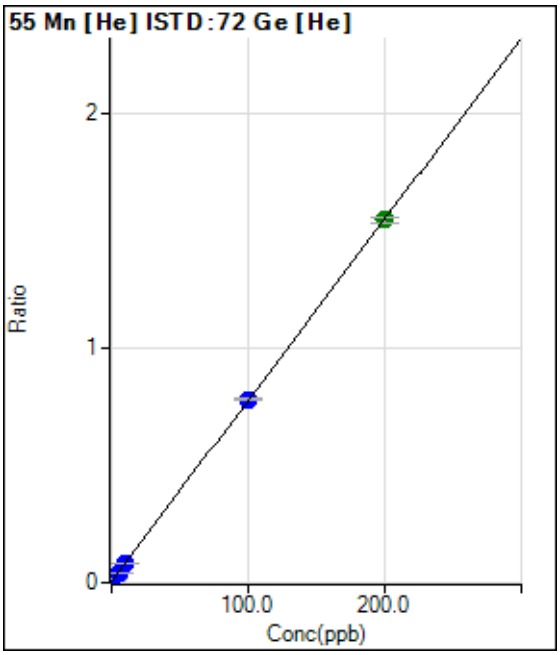


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21931.15	0.0243	P	2.2
2	☐	2.000	1.931	39824.76	0.0443	P	3.9
3	☐	5.000	5.091	70072.22	0.0771	P	1.6
4	☐	10.000	9.990	114371.50	0.1280	P	0.4
5	☐	100.000	96.956	914356.11	1.0313	P	0.7
6	☐	200.000	201.521	1832747.79	2.1173	A	2.5

y = 0.0104 * x + 0.0243
R = 0.9998
DL = 0.1538
BEC = 2.335

Weight: <None>
Min Conc: <None>

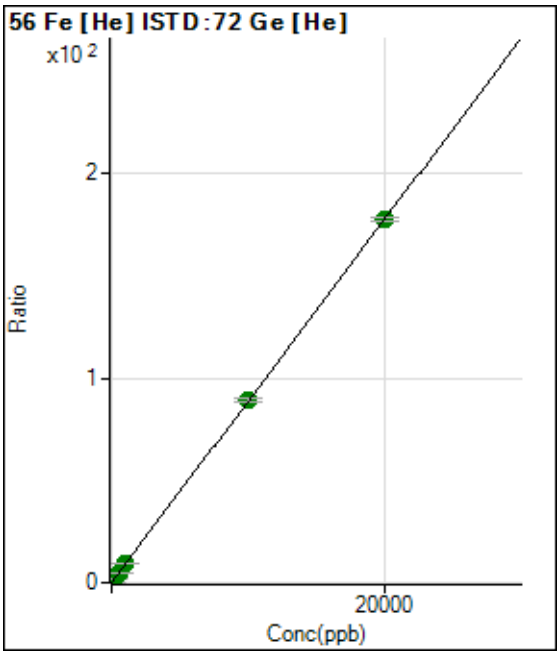
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4727.57	0.0052	P	8.0
2	☐	2.000	2.019	18706.38	0.0208	P	6.0
3	☐	5.000	5.003	39841.69	0.0439	P	1.1
4	☐	10.000	10.088	74261.10	0.0831	P	0.3
5	☐	100.000	100.532	692841.35	0.7814	P	0.6
6	☐	200.000	199.729	1339453.88	1.5473	A	1.4

y = 0.0077 * x + 0.0052
R = 1.0000
DL = 0.1621
BEC = 0.6773

Weight: <None>
Min Conc: <None>

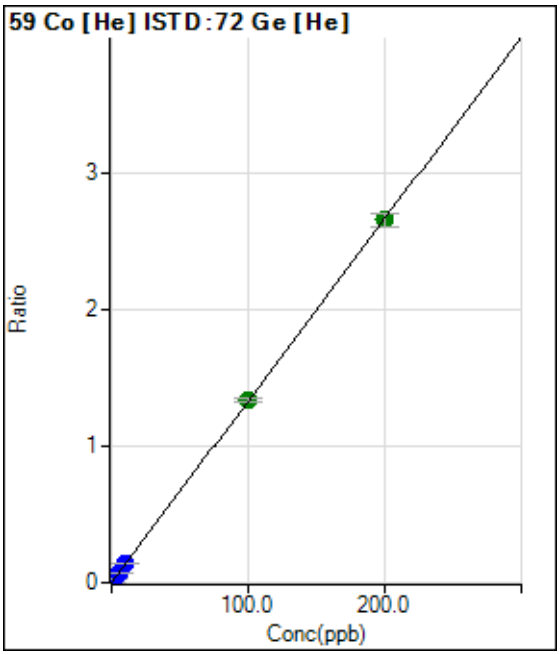


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31072.42	0.0344	P	1.3
2	☐	200.000	204.075	1657732.16	1.8442	A	2.1
3	☐	500.000	504.173	4092817.85	4.5056	A	1.1
4	☐	1000.000	1012.693	8054336.13	9.0153	A	1.3
5	☐	10000.00	10035.90	78944542.16	89.0370	A	1.8
6	☐	20000.00	19981.26	153423931.0	177.236	A	1.0

y = 0.0089 * x + 0.0344
R = 1.0000
DL = 0.1569
BEC = 3.874

Weight: <None>
Min Conc: <None>

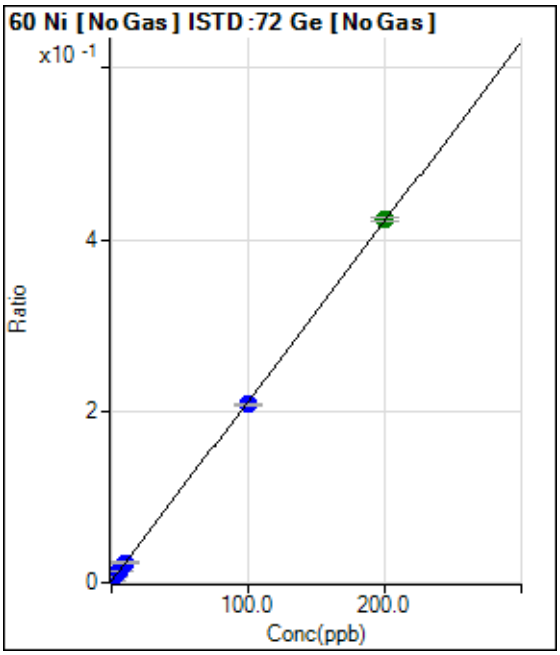
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	183.34	0.0002	P	46.1
2	☐	2.000	2.017	24268.55	0.0270	P	3.0
3	☐	5.000	5.077	61471.86	0.0677	P	1.1
4	☐	10.000	10.238	121730.08	0.1363	P	1.0
5	☐	100.000	100.793	1187646.91	1.3396	A	2.1
6	☐	200.000	199.589	2295949.39	2.6524	A	3.6

y = 0.0133 * x + 2.0179E-004
R = 1.0000
DL = 0.02098
BEC = 0.01519

Weight: <None>
Min Conc: <None>

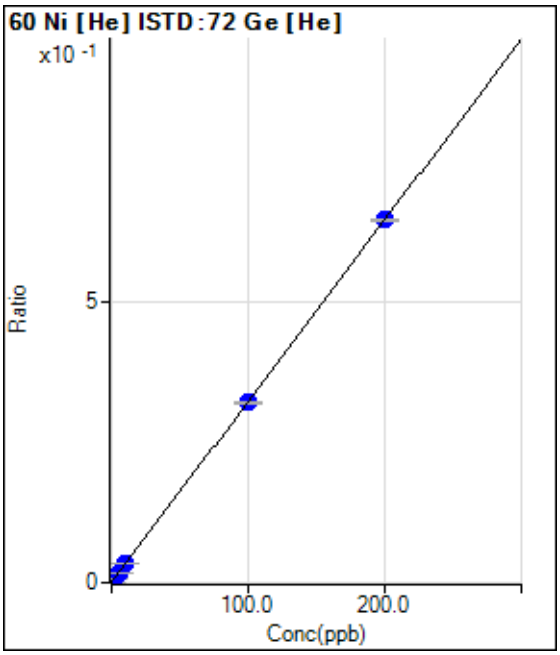


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5921.40	0.0019	P	2.4
2	☐	2.000	2.072	19133.65	0.0063	P	0.8
3	☐	5.000	5.056	38768.82	0.0125	P	2.2
4	☐	10.000	10.314	71456.71	0.0235	P	2.0
5	☐	100.000	98.082	621516.45	0.2074	P	1.4
6	☐	200.000	200.941	1244912.38	0.4228	A	0.9

y = 0.0021 * x + 0.0019
R = 0.9999
DL = 0.06626
BEC = 0.914

Weight: <None>
Min Conc: <None>

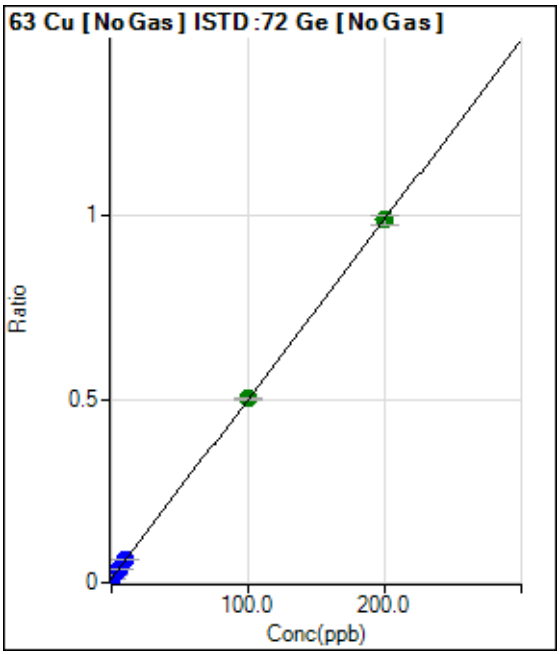
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	516.69	0.0006	P	20.7
2	☐	2.000	1.997	6304.92	0.0070	P	3.7
3	☐	5.000	5.149	15612.54	0.0172	P	0.5
4	☐	10.000	10.343	30324.08	0.0339	P	2.1
5	☐	100.000	99.491	285133.40	0.3216	P	0.8
6	☐	200.000	200.234	559789.37	0.6467	P	0.5

y = 0.0032 * x + 5.7011E-004
R = 1.0000
DL = 0.1099
BEC = 0.1767

Weight: <None>
Min Conc: <None>

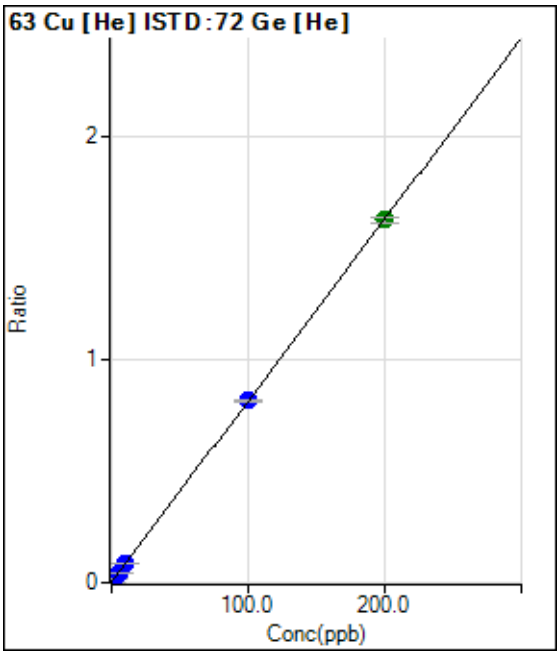


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	34564.20	0.0112	P	1.7
2	☐	2.000	2.134	66100.51	0.0216	P	1.8
3	☐	5.000	5.125	112310.76	0.0362	P	3.8
4	☐	10.000	10.439	189088.12	0.0622	P	1.6
5	☐	100.000	100.301	1503456.80	0.5016	A	0.8
6	☐	200.000	199.823	2909557.46	0.9882	A	2.4

y = 0.0049 * x + 0.0112
R = 1.0000
DL = 0.1134
BEC = 2.286

Weight: <None>
Min Conc: <None>

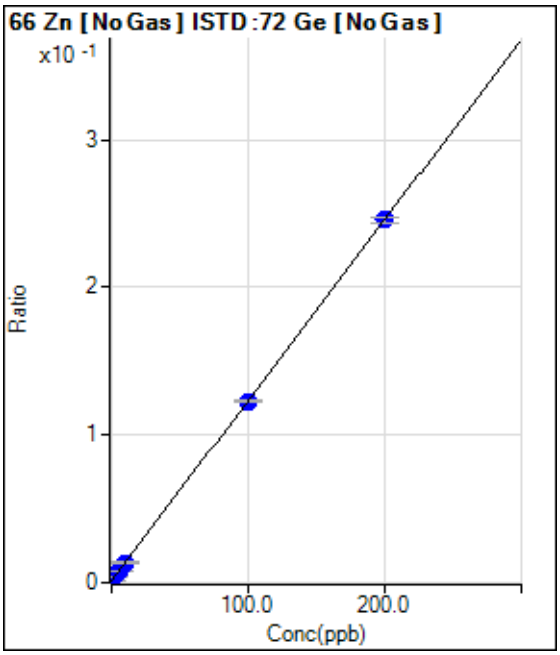
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1330.09	0.0015	P	9.4
2	☐	2.000	1.961	15632.53	0.0174	P	3.2
3	☐	5.000	5.132	39193.46	0.0431	P	2.5
4	☐	10.000	10.254	75713.60	0.0847	P	0.4
5	☐	100.000	100.413	724305.17	0.8169	P	1.0
6	☐	200.000	199.778	1405703.89	1.6239	A	1.6

y = 0.0081 * x + 0.0015
R = 1.0000
DL = 0.05091
BEC = 0.1809

Weight: <None>
Min Conc: <None>

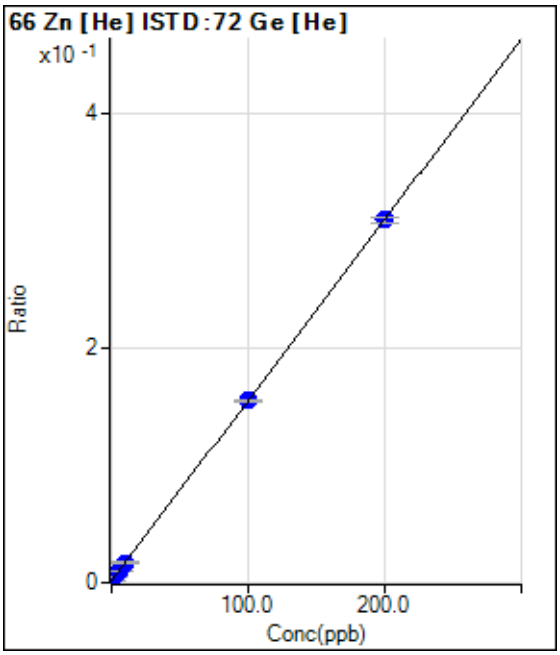


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4040.70	0.0013	P	3.2
2	☐	2.000	2.014	11515.07	0.0038	P	3.6
3	☐	5.000	4.956	22816.24	0.0074	P	1.4
4	☐	10.000	10.099	41420.13	0.0136	P	2.4
5	☐	100.000	99.542	368114.96	0.1228	P	1.2
6	☐	200.000	200.225	723466.47	0.2457	P	1.4

y = 0.0012 * x + 0.0013
R = 1.0000
DL = 0.1039
BEC = 1.07

Weight: <None>
Min Conc: <None>

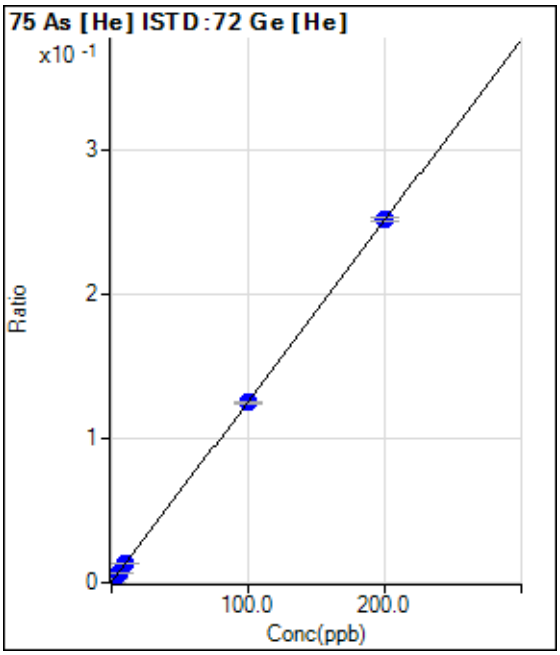
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1460.10	0.0016	P	6.9
2	☐	2.000	1.961	4164.04	0.0046	P	7.3
3	☐	5.000	5.074	8559.49	0.0094	P	0.7
4	☐	10.000	10.129	15365.62	0.0172	P	0.8
5	☐	100.000	100.073	137938.78	0.1556	P	0.9
6	☐	200.000	199.956	267684.66	0.3092	P	1.3

y = 0.0015 * x + 0.0016
R = 1.0000
DL = 0.2168
BEC = 1.05

Weight: <None>
Min Conc: <None>

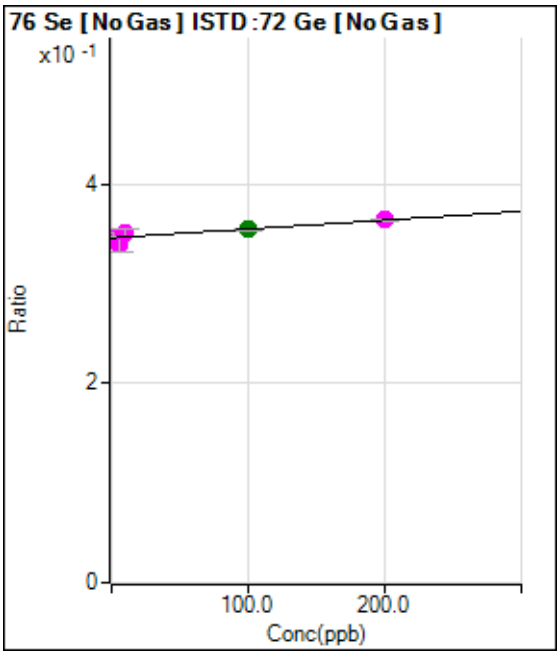


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	267.78	0.0003	P	15.4
2	☐	2.000	1.974	2490.25	0.0028	P	2.1
3	☐	5.000	5.041	6010.26	0.0066	P	2.0
4	☐	10.000	10.038	11508.28	0.0129	P	1.3
5	☐	100.000	99.310	110666.32	0.1248	P	0.4
6	☐	200.000	200.342	217702.84	0.2515	P	1.1

y = 0.0013 * x + 2.9572E-004
R = 1.0000
DL = 0.1092
BEC = 0.2359

Weight: <None>
Min Conc: <None>

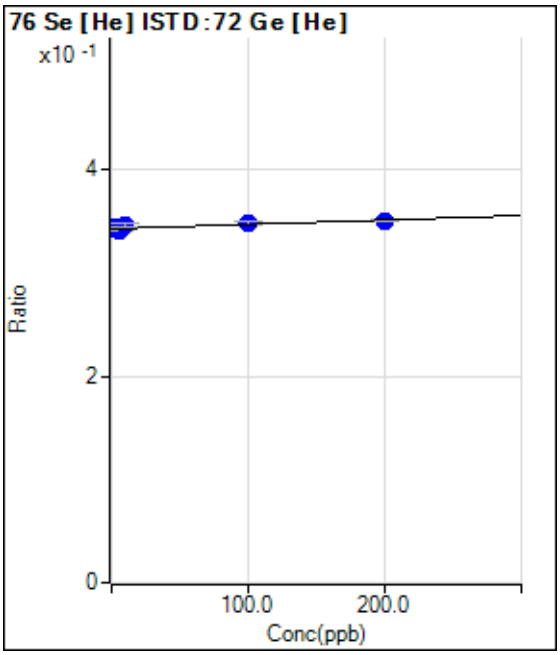
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1070686.81	0.3462	A	2.7
2	☐	2.000	2.792	1059397.41	0.3464	M	2.4
3	☐	5.000	-68.420	1054089.07	0.3401	M	4.6
4	☐	10.000	54.456	1066471.42	0.3510	M	1.8
5	☐	100.000	94.871	1062828.81	0.3546	A	0.4
6	☐	200.000	202.169	1072094.51	0.3641	M	0.4

y = 8.8790E-005 * x + 0.3462
R = 0.9149
DL = 319
BEC = 3899

Weight: <None>
Min Conc: <None>

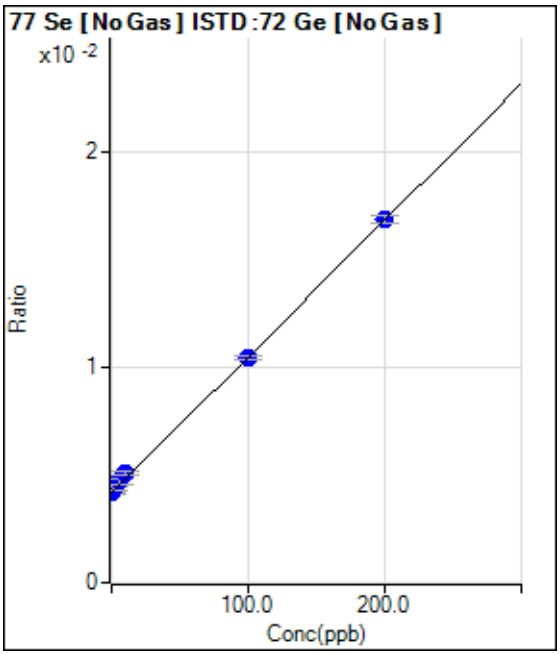


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	310036.10	0.3429	P	2.3
2	☐	2.000	30.574	309428.39	0.3442	P	0.5
3	☐	5.000	-41.003	309873.12	0.3411	P	0.6
4	☐	10.000	75.428	309205.71	0.3461	P	1.0
5	☐	100.000	128.869	308888.10	0.3484	P	0.8
6	☐	200.000	183.158	303599.10	0.3507	P	0.7

y = 4.2910E-005 * x + 0.3429
R = 0.8868
DL = 547.6
BEC = 7990

Weight: <None>
Min Conc: <None>

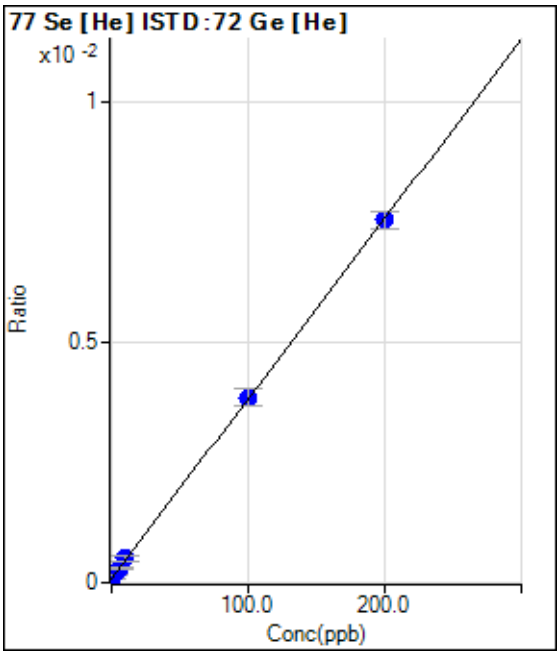
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12839.67	0.0042	P	3.4
2	☐	2.000	3.377	13350.15	0.0044	P	3.4
3	☐	5.000	8.612	14558.07	0.0047	P	6.7
4	☐	10.000	14.977	15495.82	0.0051	P	2.3
5	☐	100.000	98.999	31253.19	0.0104	P	2.2
6	☐	200.000	200.148	49578.14	0.0168	P	2.1

y = 6.3392E-005 * x + 0.0042
R = 0.9997
DL = 6.716
BEC = 65.49

Weight: <None>
Min Conc: <None>

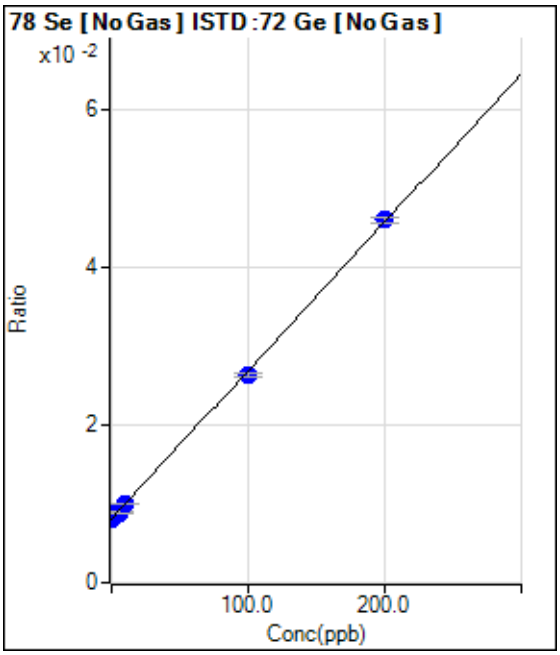


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	76.67	0.0001	P	6.0
2	☐	2.000	1.998	143.33	0.0002	P	7.5
3	☐	5.000	5.583	266.68	0.0003	P	8.8
4	☐	10.000	11.205	450.01	0.0005	P	20.2
5	☐	100.000	100.857	3417.15	0.0039	P	9.3
6	☐	200.000	199.497	6528.36	0.0075	P	4.9

y = 3.7384E-005 * x + 8.4713E-005
R = 1.0000
DL = 0.4099
BEC = 2.266

Weight: <None>
Min Conc: <None>

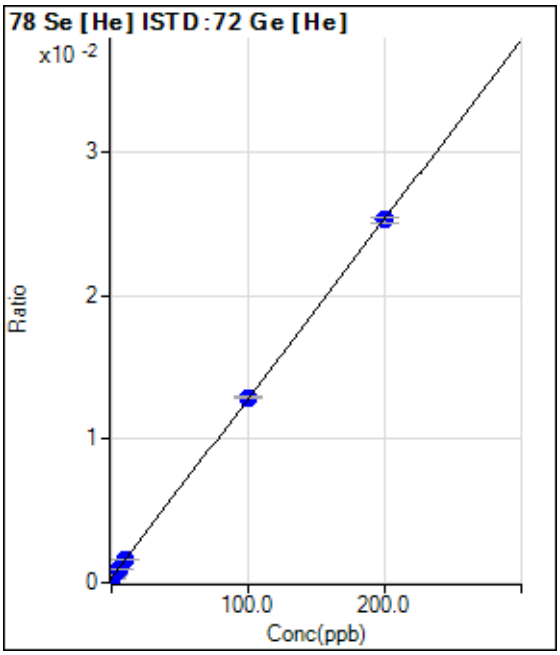
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25097.11	0.0081	P	2.2
2	☐	2.000	3.195	26653.20	0.0087	P	1.4
3	☐	5.000	4.172	27598.50	0.0089	P	0.7
4	☐	10.000	9.816	30264.28	0.0100	P	1.6
5	☐	100.000	97.069	79051.27	0.0264	P	2.1
6	☐	200.000	201.483	135472.92	0.0460	P	1.6

y = 1.8812E-004 * x + 0.0081
R = 0.9998
DL = 2.79
BEC = 43.14

Weight: <None>
Min Conc: <None>

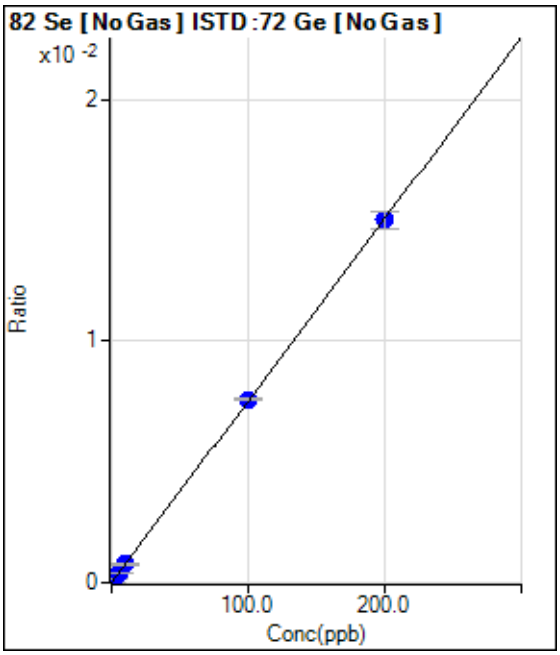


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	290.00	0.0003	P	15.8
2	☐	2.000	1.853	496.01	0.0006	P	1.0
3	☐	5.000	4.802	836.03	0.0009	P	3.7
4	☐	10.000	10.222	1427.41	0.0016	P	3.1
5	☐	100.000	100.828	11456.22	0.0129	P	2.0
6	☐	200.000	199.581	21869.72	0.0253	P	1.5

y = 1.2498E-004 * x + 3.2014E-004
R = 1.0000
DL = 1.215
BEC = 2.562

Weight: <None>
Min Conc: <None>

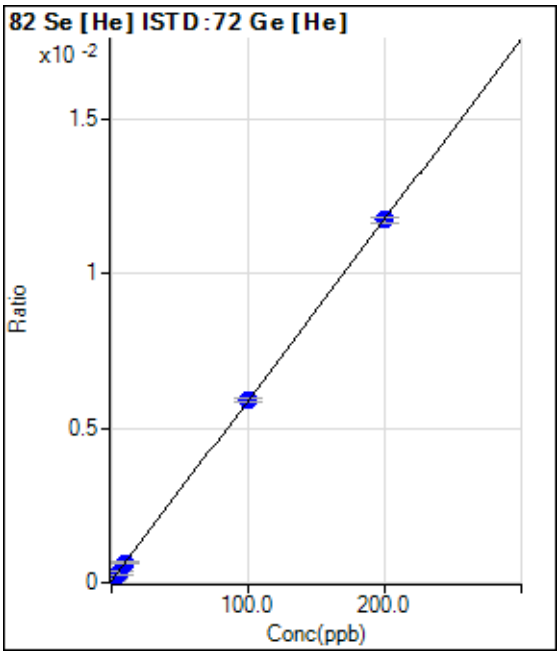
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-49.82	0.0000	P	-278.1
2	☐	2.000	1.998	410.81	0.0001	P	15.4
3	☐	5.000	5.105	1141.09	0.0004	P	12.1
4	☐	10.000	10.245	2293.72	0.0008	P	9.9
5	☐	100.000	100.660	22650.56	0.0076	P	1.3
6	☐	200.000	199.655	44171.13	0.0150	P	4.5

y = 7.5234E-005 * x - 1.6034E-005
R = 1.0000
DL = 1.778
BEC = -0.2131

Weight: <None>
Min Conc: <None>

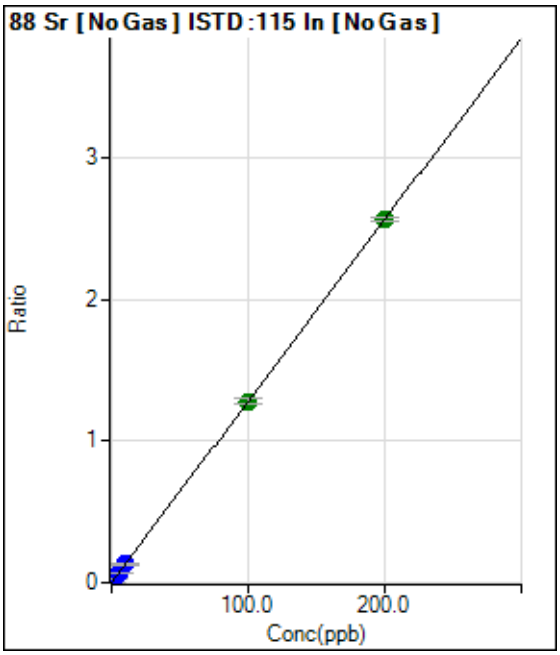


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0001	P	12.5
2	☐	2.000	1.581	136.67	0.0002	P	64.4
3	☐	5.000	4.529	293.34	0.0003	P	28.1
4	☐	10.000	10.112	580.03	0.0006	P	7.1
5	☐	100.000	100.313	5244.48	0.0059	P	2.6
6	☐	200.000	199.854	10150.73	0.0117	P	1.8

y = 5.8372E-005 * x + 5.9044E-005
R = 1.0000
DL = 0.3788
BEC = 1.012

Weight: <None>
Min Conc: <None>

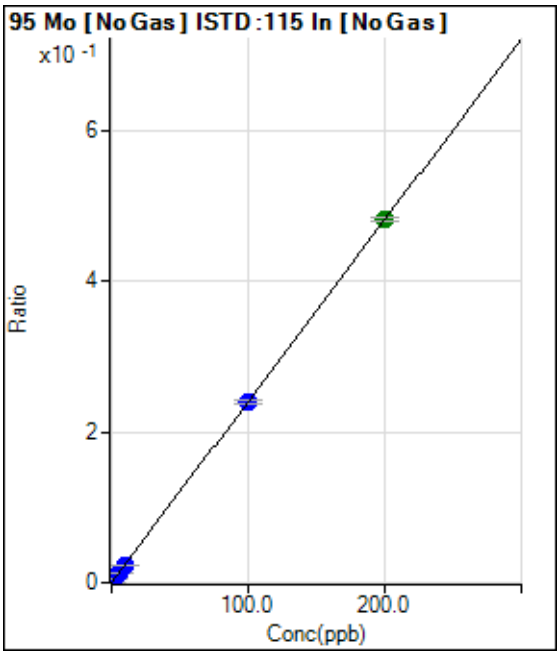
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1616.81	0.0005	P	7.1
2	☐	2.000	1.973	83043.50	0.0257	P	1.4
3	☐	5.000	5.002	208265.45	0.0645	P	1.6
4	☐	10.000	10.093	412645.91	0.1296	P	1.4
5	☐	100.000	100.018	4012745.46	1.2798	A	3.0
6	☐	200.000	199.987	7906049.46	2.5584	A	1.1

y = 0.0128 * x + 4.9976E-004
R = 1.0000
DL = 0.00834
BEC = 0.03907

Weight: <None>
Min Conc: <None>

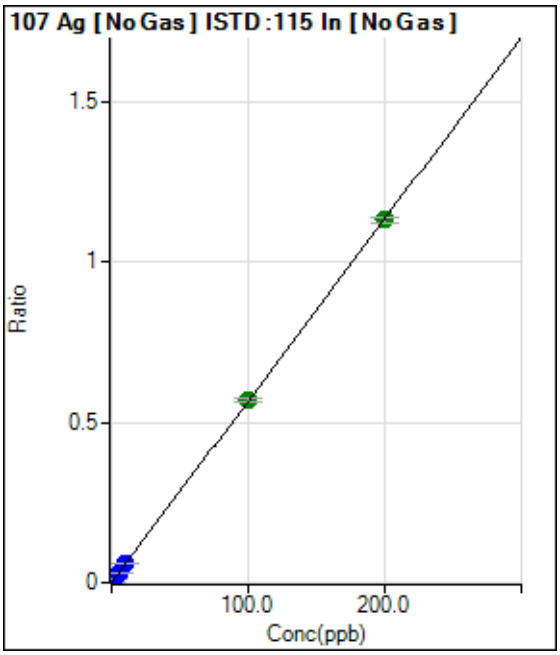


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	306.68	0.0001	P	8.0
2	☐	2.000	1.961	15489.25	0.0048	P	2.5
3	☐	5.000	4.820	37687.09	0.0117	P	1.1
4	☐	10.000	9.905	76040.66	0.0239	P	1.8
5	☐	100.000	99.599	750057.41	0.2392	P	2.1
6	☐	200.000	200.210	1485429.14	0.4807	A	1.1

y = 0.0024 * x + 9.4621E-005
R = 1.0000
DL = 0.00941
BEC = 0.03942

Weight: <None>
Min Conc: <None>

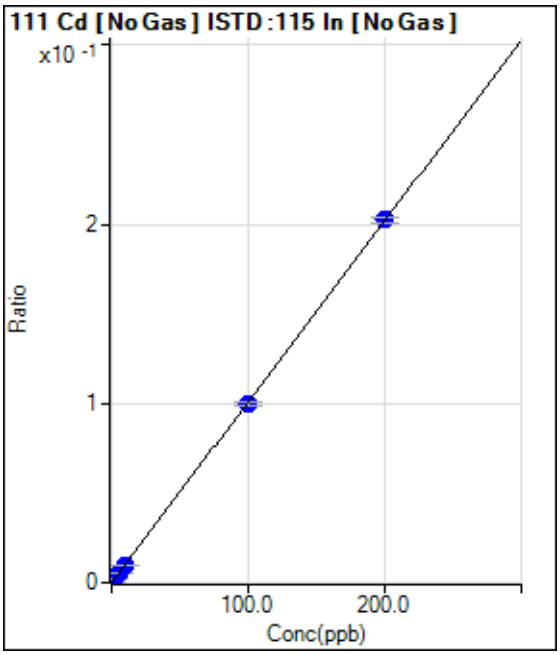
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	106.67	0.0000	P	37.1
2	☐	2.000	2.056	37710.86	0.0117	P	1.0
3	☐	5.000	5.213	95547.13	0.0296	P	2.9
4	☐	10.000	10.427	188317.14	0.0591	P	2.1
5	☐	100.000	100.672	1789489.87	0.5707	A	2.5
6	☐	200.000	199.637	3496822.35	1.1317	A	1.6

y = 0.0057 * x + 3.3055E-005
R = 1.0000
DL = 0.006485
BEC = 0.005831

Weight: <None>
Min Conc: <None>

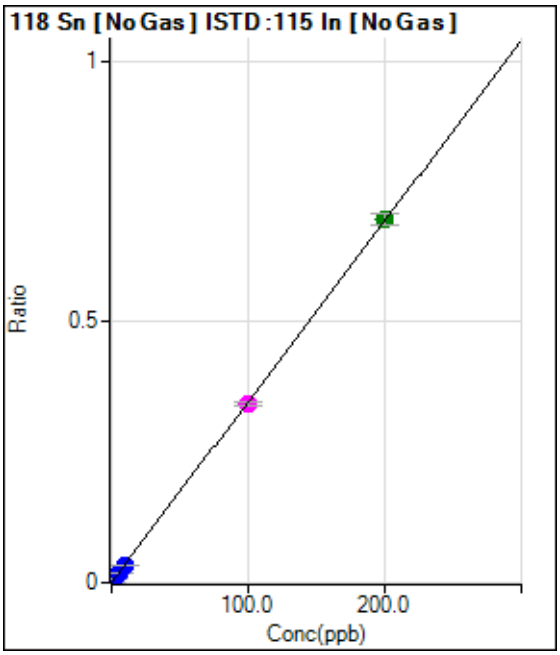


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-7.15	0.0000	P	-173.2
2	☐	2.000	1.916	6229.16	0.0019	P	5.3
3	☐	5.000	4.888	15913.53	0.0049	P	3.1
4	☐	10.000	9.926	31865.40	0.0100	P	2.2
5	☐	100.000	98.610	311855.09	0.0994	P	1.9
6	☐	200.000	200.703	625453.66	0.2024	P	1.9

y = 0.0010 * x - 2.2479E-006
R = 1.0000
DL = 0.01158
BEC = -0.002229

Weight: <None>
Min Conc: <None>

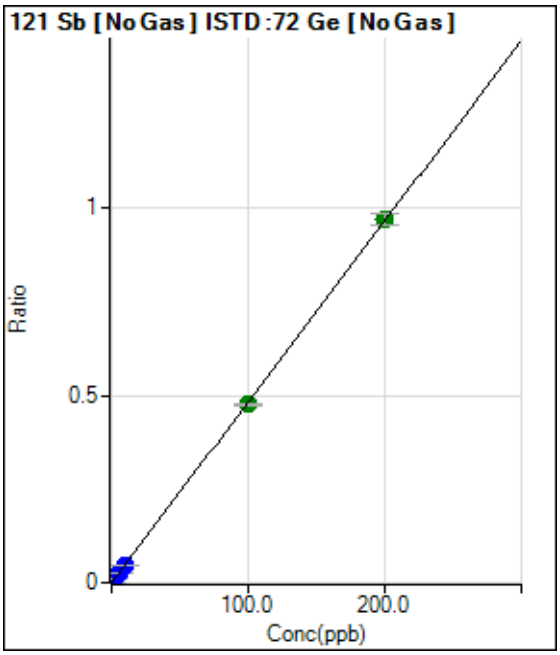
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1800.16	0.0006	P	5.5
2	☐	2.000	1.959	23668.72	0.0073	P	3.3
3	☐	5.000	4.948	57110.86	0.0177	P	2.8
4	☐	10.000	9.910	111000.41	0.0349	P	0.6
5	☐	100.000	98.603	1071801.36	0.3418	M	2.7
6	☐	200.000	200.705	2147830.38	0.6952	A	3.2

y = 0.0035 * x + 5.5598E-004
R = 1.0000
DL = 0.02647
BEC = 0.1606

Weight: <None>
Min Conc: <None>

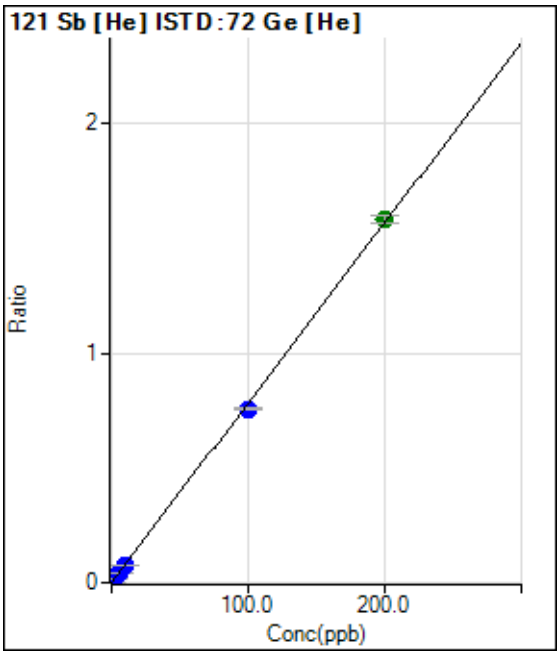


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	403.35	0.0001	P	6.1
2	☐	2.000	1.957	29232.82	0.0096	P	3.0
3	☐	5.000	4.884	73371.50	0.0237	P	2.9
4	☐	10.000	9.994	146735.08	0.0483	P	1.4
5	☐	100.000	98.459	1422600.76	0.4746	A	0.2
6	☐	200.000	200.774	2848880.90	0.9677	A	3.1

y = 0.0048 * x + 1.3040E-004
R = 1.0000
DL = 0.004983
BEC = 0.02706

Weight: <None>
Min Conc: <None>

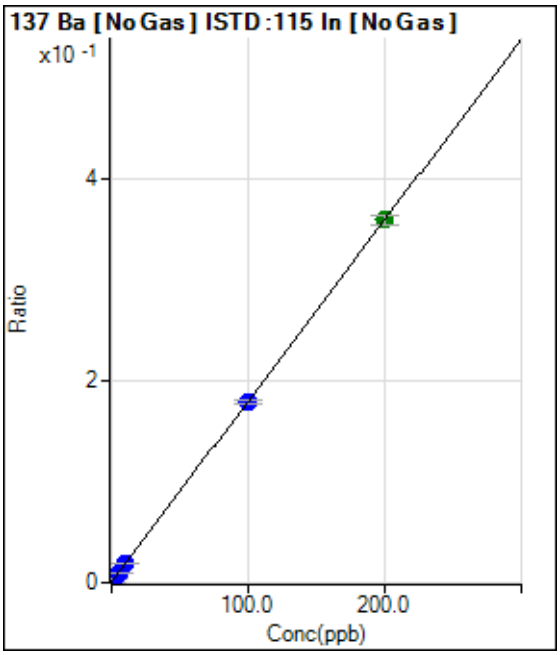
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	203.34	0.0002	P	32.5
2	☐	2.000	1.919	13724.07	0.0153	P	1.2
3	☐	5.000	4.866	34843.21	0.0384	P	3.1
4	☐	10.000	9.553	67084.61	0.0751	P	0.1
5	☐	100.000	96.570	671192.10	0.7570	P	1.6
6	☐	200.000	201.742	1368759.35	1.5813	A	2.3

y = 0.0078 * x + 2.2434E-004
R = 0.9998
DL = 0.02794
BEC = 0.02863

Weight: <None>
Min Conc: <None>

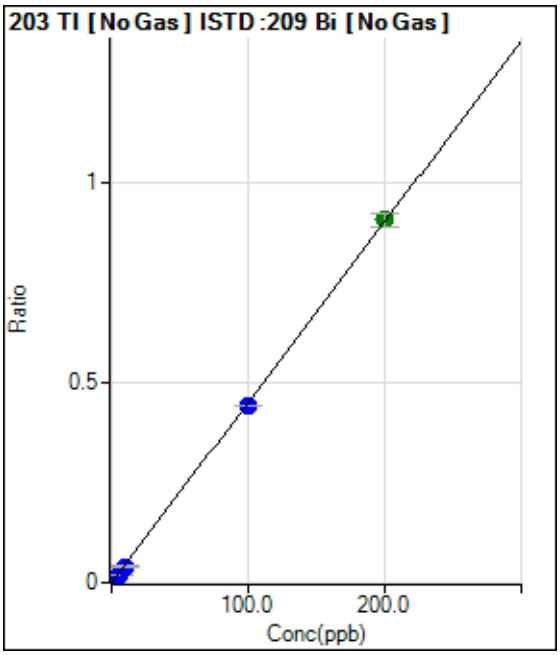


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1963.51	0.0006	P	4.1
2	☐	2.000	1.824	12519.60	0.0039	P	6.6
3	☐	5.000	4.851	30085.25	0.0093	P	4.2
4	☐	10.000	9.852	58267.46	0.0183	P	0.8
5	☐	100.000	99.567	562450.06	0.1794	P	2.7
6	☐	200.000	200.229	1112788.03	0.3601	A	2.3

y = 0.0018 * x + 6.0663E-004
R = 1.0000
DL = 0.04139
BEC = 0.3379

Weight: <None>
Min Conc: <None>

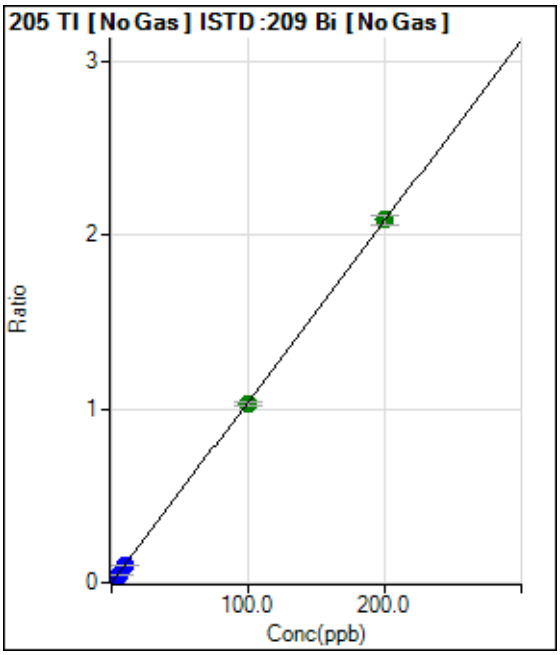
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	76.67	0.0000	P	5.6
2	☐	2.000	1.765	17195.52	0.0080	P	6.0
3	☐	5.000	4.438	43543.08	0.0200	P	1.5
4	☐	10.000	9.018	88620.00	0.0407	P	1.0
5	☐	100.000	98.059	945050.06	0.4421	P	0.6
6	☐	200.000	201.036	1881138.41	0.9063	A	3.7

y = 0.0045 * x + 3.5683E-005
R = 0.9999
DL = 0.001336
BEC = 0.007915

Weight: <None>
Min Conc: <None>

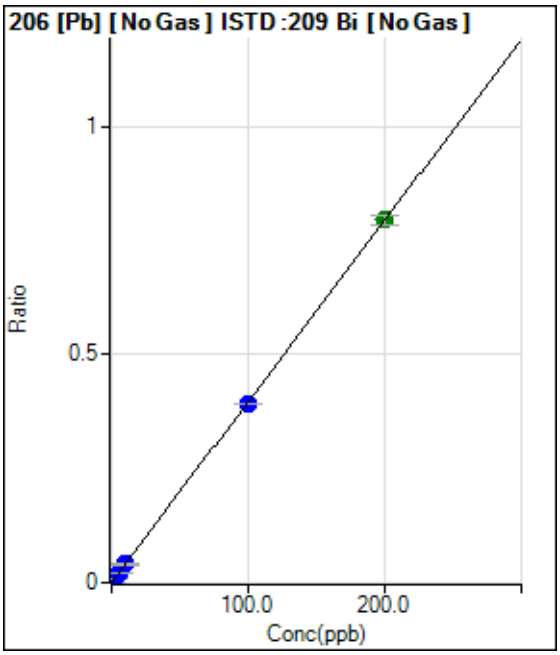


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	140.00	0.0001	P	8.9
2	☐	2.000	1.798	40389.01	0.0188	P	2.1
3	☐	5.000	4.627	104690.73	0.0482	P	1.8
4	☐	10.000	9.384	212692.28	0.0977	P	1.6
5	☐	100.000	98.786	2196107.52	1.0274	A	1.5
6	☐	200.000	200.649	4331587.12	2.0868	A	2.4

y = 0.0104 * x + 6.5284E-005
R = 1.0000
DL = 0.001681
BEC = 0.006277

Weight: <None>
Min Conc: <None>

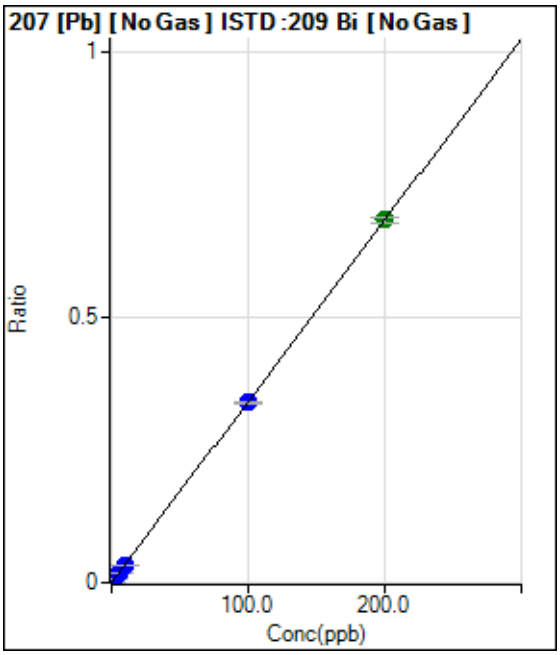
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	186.67	0.0001	P	14.8
2	☐	2.000	2.012	17375.72	0.0081	P	3.2
3	☐	5.000	5.036	43633.40	0.0201	P	1.8
4	☐	10.000	10.070	87260.83	0.0401	P	2.0
5	☐	100.000	99.224	842296.37	0.3940	P	0.1
6	☐	200.000	200.383	1651539.77	0.7957	A	2.6

y = 0.0040 * x + 8.7048E-005
R = 1.0000
DL = 0.009712
BEC = 0.02193

Weight: <None>
Min Conc: <None>

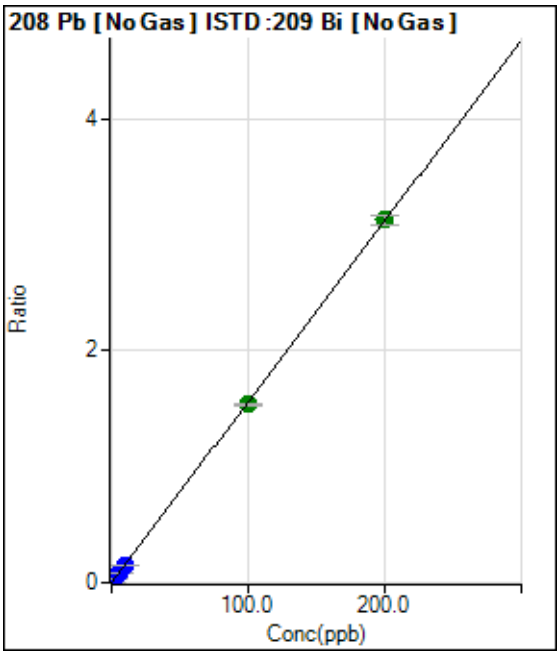


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	240.01	0.0001	P	6.9
2	☐	2.000	1.954	14582.08	0.0068	P	0.6
3	☐	5.000	5.007	37319.72	0.0172	P	3.8
4	☐	10.000	9.903	73765.05	0.0339	P	1.4
5	☐	100.000	99.421	724659.44	0.3390	P	1.1
6	☐	200.000	200.294	1417520.40	0.6829	A	1.7

y = 0.0034 * x + 1.1192E-004
R = 1.0000
DL = 0.006821
BEC = 0.03283

Weight: <None>
Min Conc: <None>

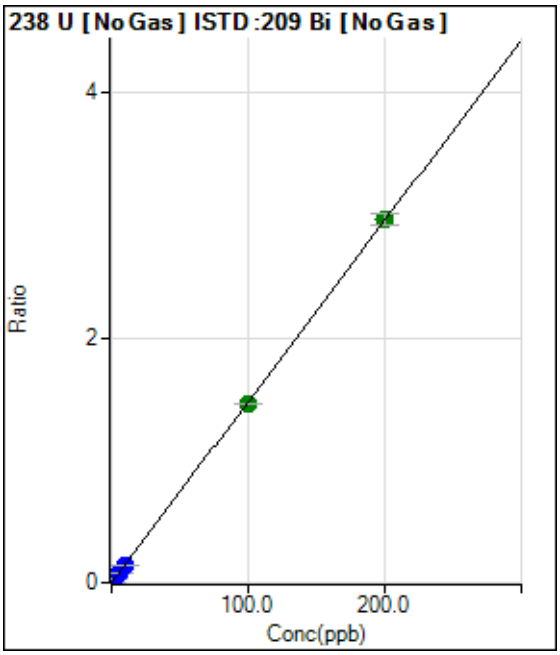
Calibration for 298_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	960.03	0.0004	P	5.1
2	☐	2.000	1.990	67669.12	0.0314	P	1.9
3	☐	5.000	5.060	172132.30	0.0792	P	2.1
4	☐	10.000	10.045	341657.21	0.1569	P	0.6
5	☐	100.000	98.544	3280899.07	1.5349	A	1.0
6	☐	200.000	200.724	6488509.59	3.1260	A	2.6

y = 0.0156 * x + 4.4739E-004
R = 1.0000
DL = 0.004419
BEC = 0.02873

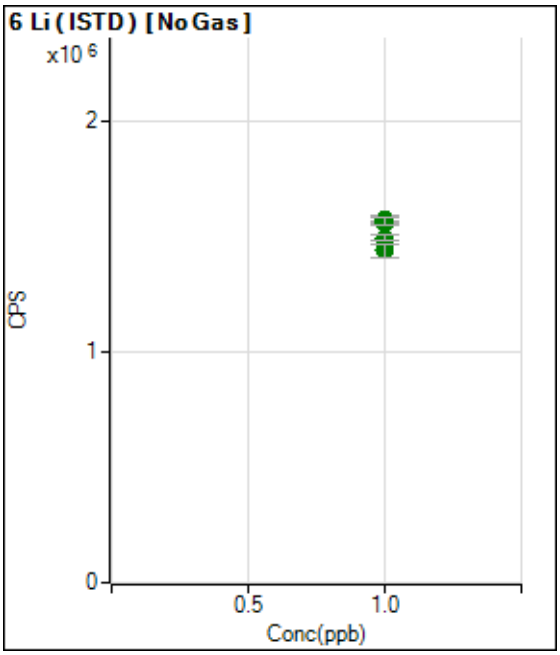
Weight: <None>
Min Conc: <None>



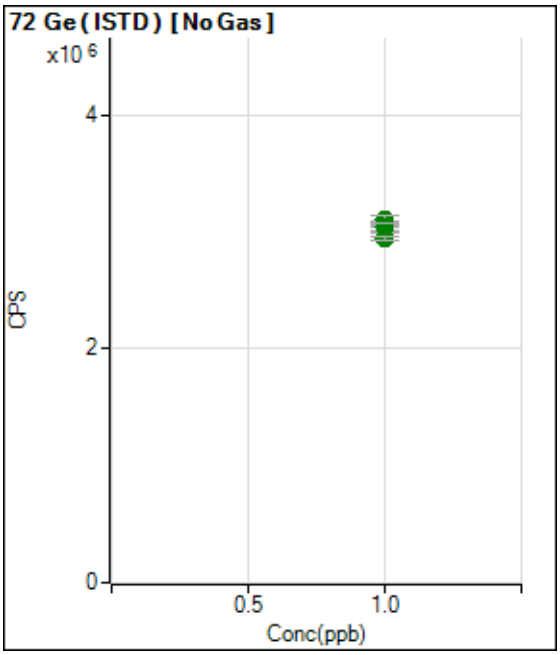
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	34.6
2	☐	2.000	1.984	63065.99	0.0293	P	3.0
3	☐	5.000	4.941	158545.61	0.0730	P	2.8
4	☐	10.000	9.915	318943.52	0.1464	P	1.4
5	☐	100.000	98.807	3119284.64	1.4592	A	0.8
6	☐	200.000	200.603	6148431.58	2.9625	A	3.4

y = 0.0148 * x + 7.7613E-006
R = 1.0000
DL = 0.0005457
BEC = 0.0005255

Weight: <None>
Min Conc: <None>

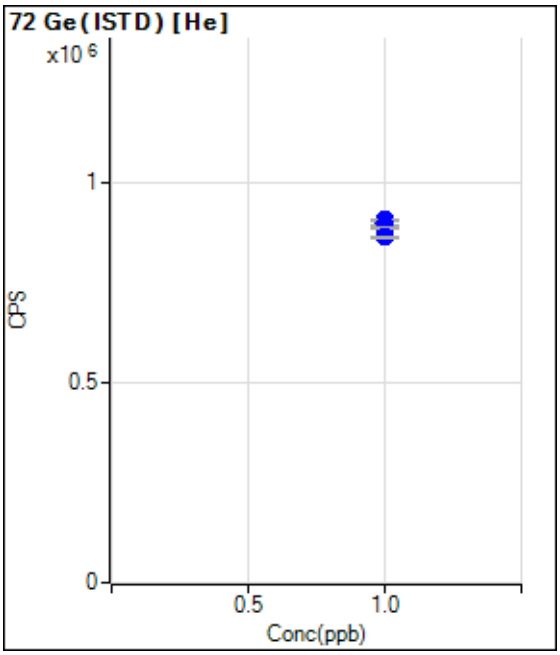


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1565159.36		A	0.9
2	☐	1.000		1573996.43		A	2.2
3	☐	1.000		1558680.71		A	1.4
4	☐	1.000		1569646.12		A	1.8
5	☐	1.000		1497310.93		A	2.0
6	☐	1.000		1439276.40		A	4.3

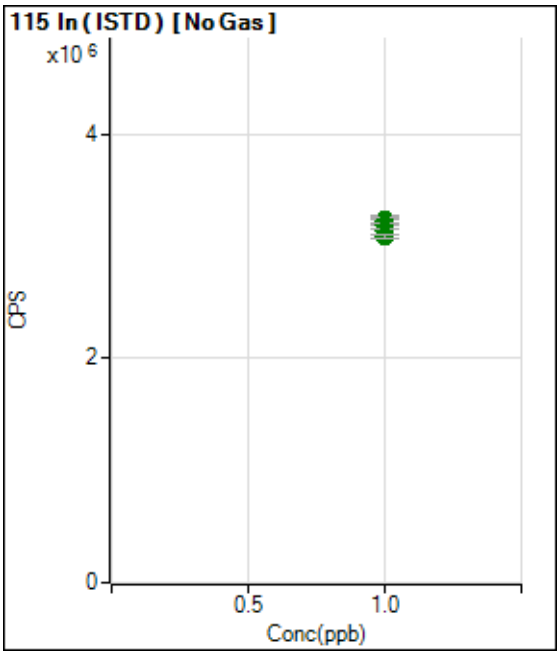


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3093001.62		A	0.3
2	☐	1.000		3058569.54		A	1.4
3	☐	1.000		3101539.01		A	2.4
4	☐	1.000		3038987.56		A	2.4
5	☐	1.000		2997236.31		A	0.1
6	☐	1.000		2944188.81		A	1.2

Calibration for 298_ICV.d

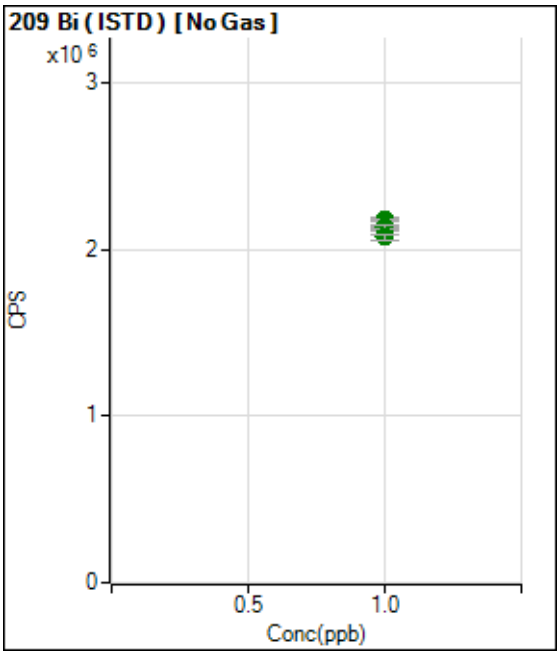


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		904451.55		P	1.6
2	☐	1.000		899028.89		P	1.1
3	☐	1.000		908447.20		P	0.9
4	☐	1.000		893420.40		P	0.2
5	☐	1.000		886654.49		P	0.7
6	☐	1.000		865678.76		P	0.6



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3237738.40		A	2.0
2	☐	1.000		3226780.88		A	1.4
3	☐	1.000		3230931.03		A	1.9
4	☐	1.000		3184929.08		A	2.0
5	☐	1.000		3136434.53		A	1.5
6	☐	1.000		3090196.16		A	0.9

Calibration for 298_ICV.d



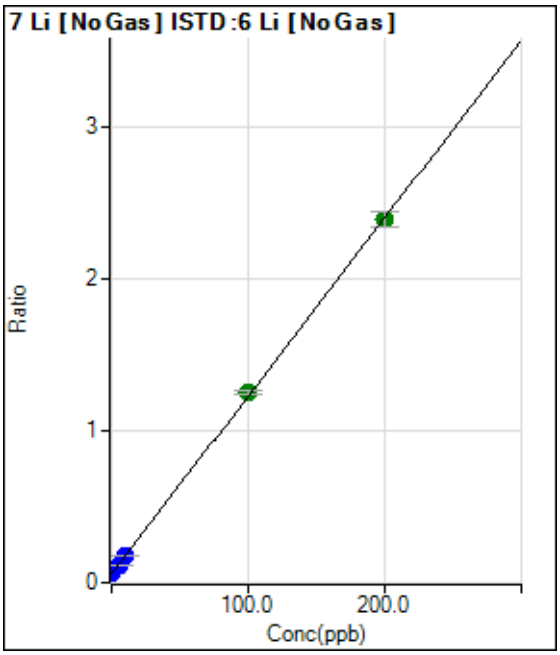
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2147222.47		A	2.8
2	☐	1.000		2152913.56		A	2.0
3	☐	1.000		2173141.74		A	2.1
4	☐	1.000		2178001.69		A	0.8
5	☐	1.000		2137641.27		A	1.1
6	☐	1.000		2076253.30		A	1.8

Calibration for 227_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\032923A.b\
Analysis File: 032923A.batch.bin
DA Date-Time: 3/29/2023 10:42:06 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	220CALB.d	CAL BLK	3/29/2023 9:28:20 PM
2	221CALS.d	2/10/200	3/29/2023 9:30:18 PM
3	222CALS.d	5/25/500	3/29/2023 9:32:16 PM
4	223CALS.d	10/50/100	3/29/2023 9:34:13 PM
5	224CALS.d	100/500/10K	3/29/2023 9:36:11 PM
6	225CALS.d	200/1000/20K	3/29/2023 9:38:04 PM

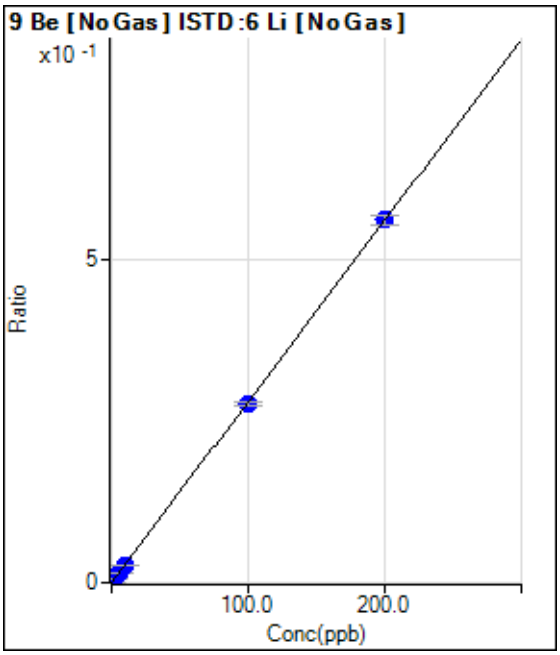
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	71557.05	0.0575	P	1.5
2	☐	2.000	2.169	100214.87	0.0829	P	1.6
3	☐	5.000	5.196	143812.74	0.1182	P	0.9
4	☐	10.000	10.555	215720.38	0.1809	P	1.5
5	☐	100.000	101.807	1448099.30	1.2477	A	2.3
6	☐	200.000	199.062	2701511.63	2.3846	A	4.4

y = 0.0117 * x + 0.0575
R = 0.9999
DL = 0.2259
BEC = 4.918

Weight: <None>
Min Conc: <None>

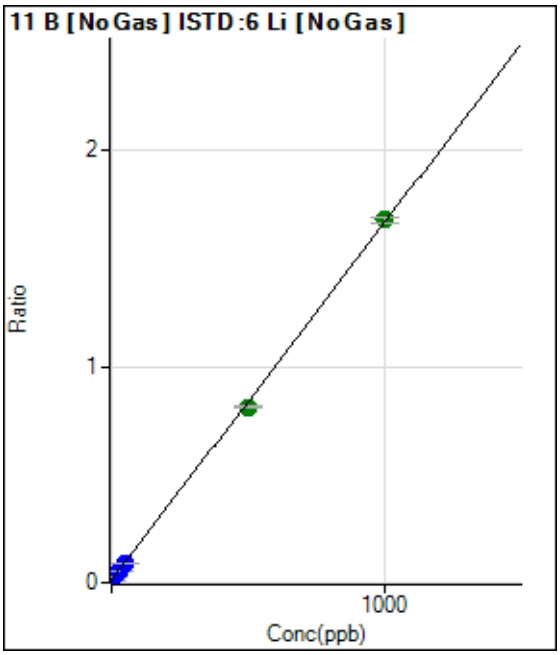


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	42.5
2	☐	2.000	1.916	6484.88	0.0054	P	6.0
3	☐	5.000	4.982	16931.93	0.0139	P	3.6
4	☐	10.000	9.854	32849.99	0.0275	P	1.6
5	☐	100.000	99.180	321714.68	0.2772	P	1.9
6	☐	200.000	200.419	634846.85	0.5601	P	2.4

y = 0.0028 * x + 5.3462E-006
R = 1.0000
DL = 0.002442
BEC = 0.001913

Weight: <None>
Min Conc: <None>

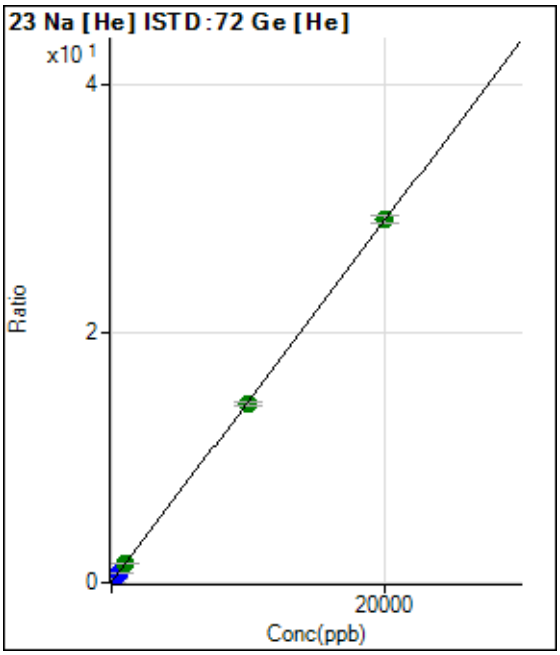
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14002.04	0.0113	P	3.7
2	☐	10.000	9.043	31690.67	0.0262	P	2.1
3	☐	25.000	23.731	61396.97	0.0505	P	1.5
4	☐	50.000	48.816	109655.83	0.0920	P	2.1
5	☐	500.000	484.610	942943.97	0.8124	A	0.8
6	☐	1000.000	1007.796	1901596.84	1.6773	A	1.5

y = 0.0017 * x + 0.0113
R = 0.9998
DL = 0.7651
BEC = 6.806

Weight: <None>
Min Conc: <None>

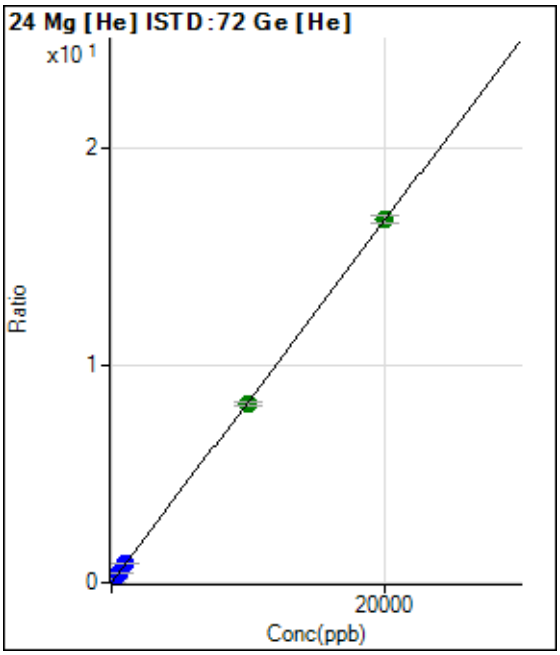


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51943.45	0.0653	P	1.4
2	☐	200.000	210.553	297298.89	0.3699	P	1.1
3	☐	500.000	535.401	666510.43	0.8400	P	1.1
4	☐	1000.000	1038.524	1239915.42	1.5680	A	1.5
5	☐	10000.00	9882.115	11273402.33	14.3645	A	1.7
6	☐	20000.00	20056.02	22155233.84	29.0860	A	2.1

y = 0.0014 * x + 0.0653
R = 1.0000
DL = 1.842
BEC = 45.1

Weight: <None>
Min Conc: <None>

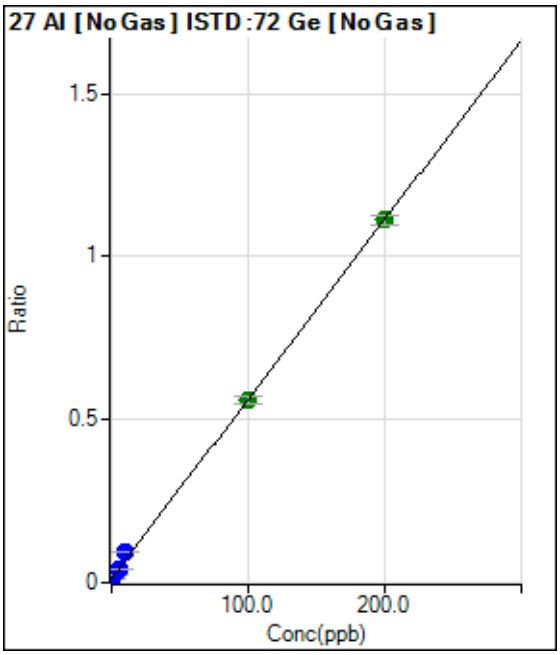
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	723.36	0.0009	P	15.3
2	☐	200.000	215.025	144624.27	0.1800	P	1.2
3	☐	500.000	545.448	361113.24	0.4551	P	0.5
4	☐	1000.000	1090.049	718426.76	0.9086	P	1.7
5	☐	10000.00	9913.619	6479010.53	8.2556	A	1.9
6	☐	20000.00	20037.40	12709346.06	16.6853	A	2.2

y = 8.3266E-004 * x + 9.0914E-004
R = 1.0000
DL = 0.5008
BEC = 1.092

Weight: <None>
Min Conc: <None>

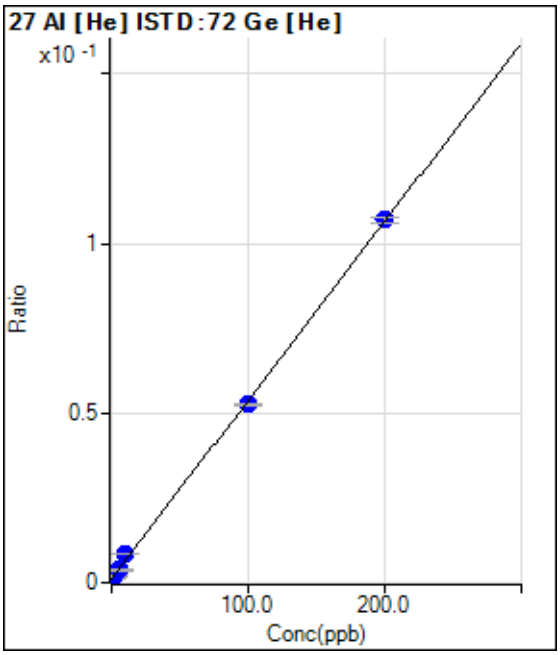


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	35283.72	0.0124	P	6.8
2	☐	2.000	1.889	64512.85	0.0228	P	1.2
3	☐	5.000	5.174	116040.84	0.0408	P	1.0
4	☐	10.000	14.810	264245.29	0.0939	P	1.7
5	☐	100.000	99.674	1579013.00	0.5611	A	5.0
6	☐	200.000	199.919	3032775.58	1.1131	A	2.5

y = 0.0055 * x + 0.0124
R = 0.9997
DL = 0.4605
BEC = 2.244

Weight: <None>
Min Conc: <None>

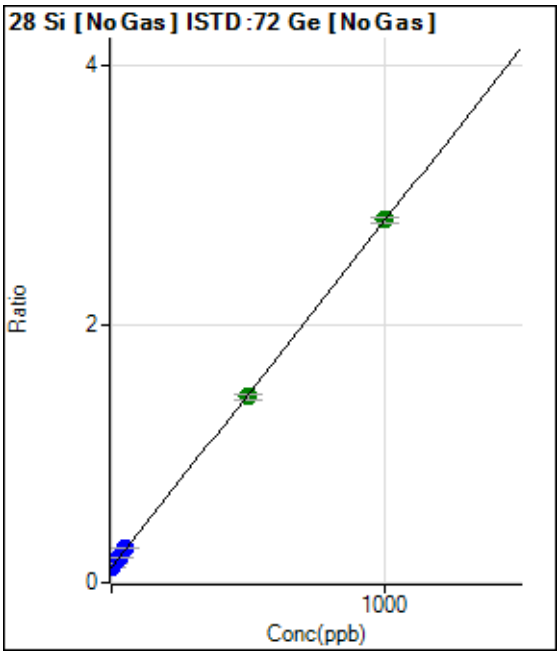
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	920.04	0.0012	P	17.0
2	☐	2.000	1.562	1590.12	0.0020	P	4.4
3	☐	5.000	5.015	3010.42	0.0038	P	9.8
4	☐	10.000	13.775	6645.03	0.0084	P	4.2
5	☐	100.000	97.492	41151.24	0.0524	P	0.7
6	☐	200.000	201.069	81437.13	0.1069	P	1.4

y = 5.2594E-004 * x + 0.0012
R = 0.9997
DL = 1.124
BEC = 2.199

Weight: <None>
Min Conc: <None>

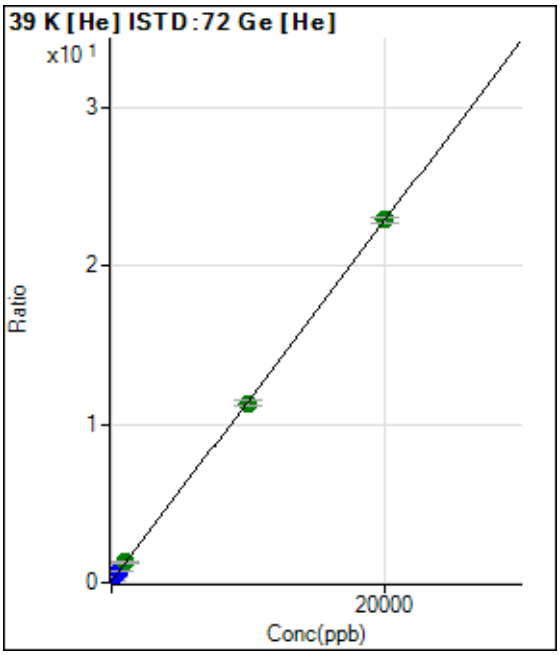


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	335310.28	0.1174	P	0.8
2	☐	10.000	11.952	423718.39	0.1495	P	0.2
3	☐	25.000	28.606	551588.26	0.1942	P	0.6
4	☐	50.000	55.773	751434.44	0.2670	P	2.1
5	☐	500.000	492.676	4050052.34	1.4390	A	2.4
6	☐	1000.000	1003.264	7653620.30	2.8085	A	1.3

y = 0.0027 * x + 0.1174
R = 0.9999
DL = 1.091
BEC = 43.78

Weight: <None>
Min Conc: <None>

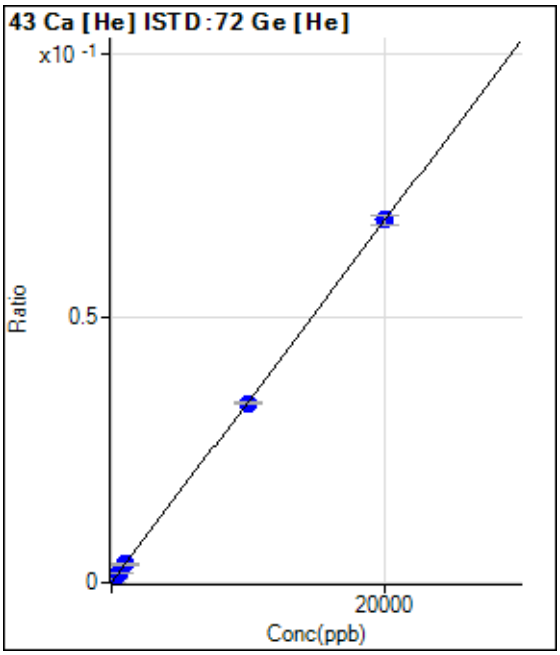
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	73679.39	0.0926	P	1.4
2	☐	200.000	204.842	261738.10	0.3257	P	1.2
3	☐	500.000	525.007	547536.32	0.6900	P	0.8
4	☐	1000.000	1043.454	1012262.07	1.2800	A	1.3
5	☐	10000.00	9884.874	8902638.82	11.3417	A	2.9
6	☐	20000.00	20054.71	17455477.24	22.9150	A	1.6

y = 0.0011 * x + 0.0926
R = 1.0000
DL = 3.443
BEC = 81.34

Weight: <None>
Min Conc: <None>

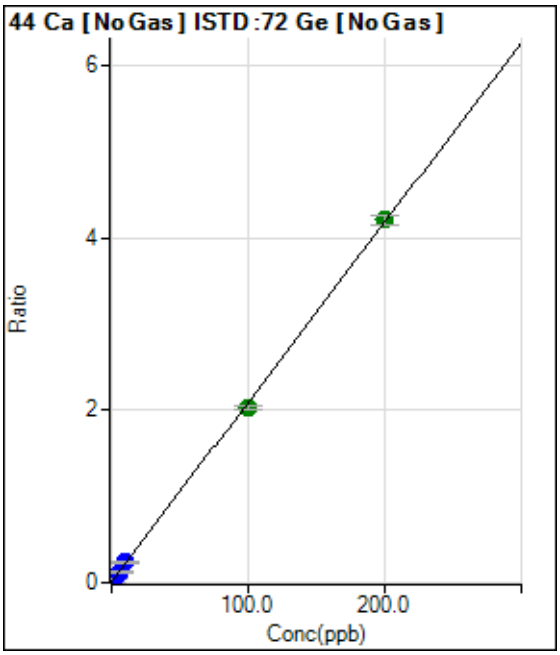


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0001	P	66.3
2	☐	200.000	174.601	523.35	0.0007	P	20.7
3	☐	500.000	515.134	1440.10	0.0018	P	9.9
4	☐	1000.000	1006.566	2763.66	0.0035	P	4.6
5	☐	10000.00	9886.946	26562.66	0.0338	P	1.1
6	☐	20000.00	20056.07	52245.88	0.0686	P	2.8

y = 3.4174E-006 * x + 5.4232E-005
R = 1.0000
DL = 31.59
BEC = 15.87

Weight: <None>
Min Conc: <None>

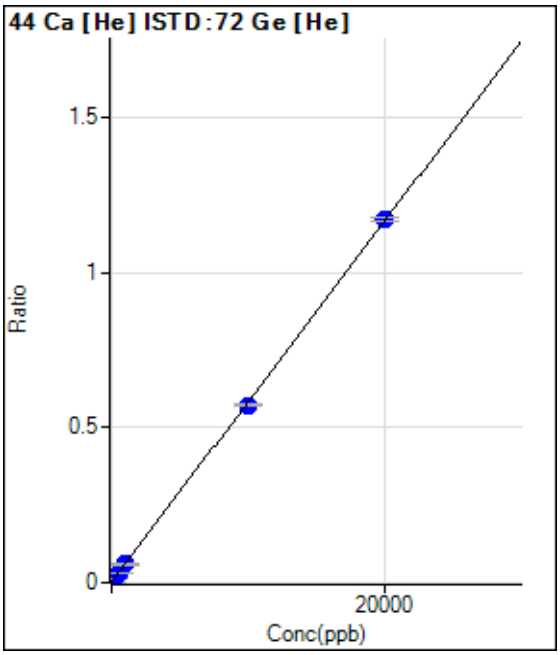
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	29441.81	0.0103	P	0.8
2	☐	2.000	2.105	153629.72	0.0542	P	0.5
3	☐	5.000	5.357	346634.38	0.1220	P	1.4
4	☐	10.000	10.757	660275.15	0.2346	P	1.7
5	☐	100.000	97.041	5724375.12	2.0339	A	2.0
6	☐	200.000	201.432	11473425.66	4.2106	A	2.4

y = 0.0209 * x + 0.0103
R = 0.9998
DL = 0.01255
BEC = 0.4944

Weight: <None>
Min Conc: <None>

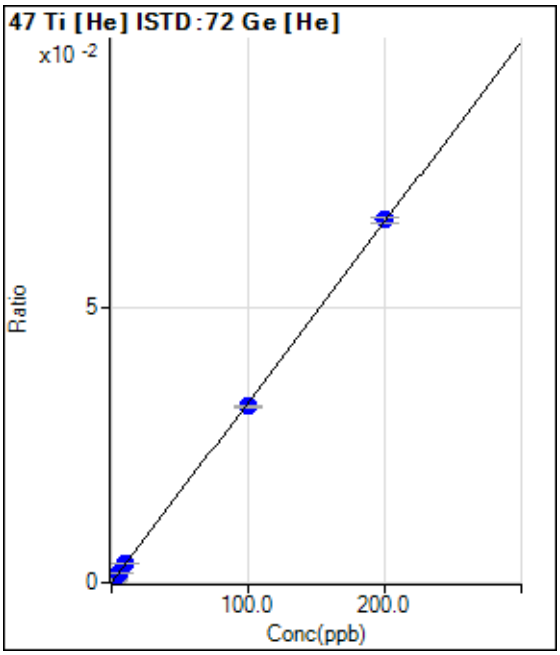


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	833.37	0.0010	P	4.9
2	☐	200.000	199.520	10180.62	0.0127	P	5.3
3	☐	500.000	510.692	24435.51	0.0308	P	1.4
4	☐	1000.000	1003.367	47054.25	0.0595	P	2.3
5	☐	10000.00	9822.486	449899.33	0.5732	P	0.8
6	☐	20000.00	20088.32	892154.34	1.1712	P	1.1

y = 5.8248E-005 * x + 0.0010
R = 0.9999
DL = 2.653
BEC = 17.97

Weight: <None>
Min Conc: <None>

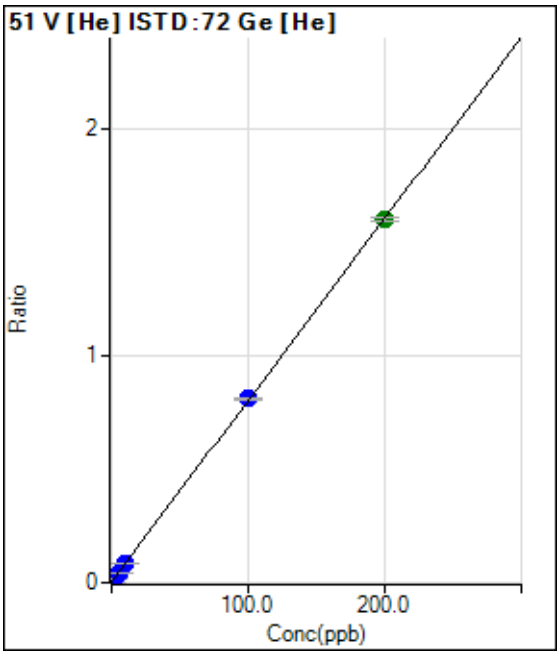
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0000	P	173.2
2	☐	2.000	1.734	460.02	0.0006	P	20.4
3	☐	5.000	5.274	1373.43	0.0017	P	4.1
4	☐	10.000	10.274	2663.64	0.0034	P	2.6
5	☐	100.000	97.753	25123.32	0.0320	P	1.0
6	☐	200.000	201.106	50161.69	0.0658	P	1.7

y = 3.2741E-004 * x + 4.1715E-006
R = 0.9999
DL = 0.0662
BEC = 0.01274

Weight: <None>
Min Conc: <None>

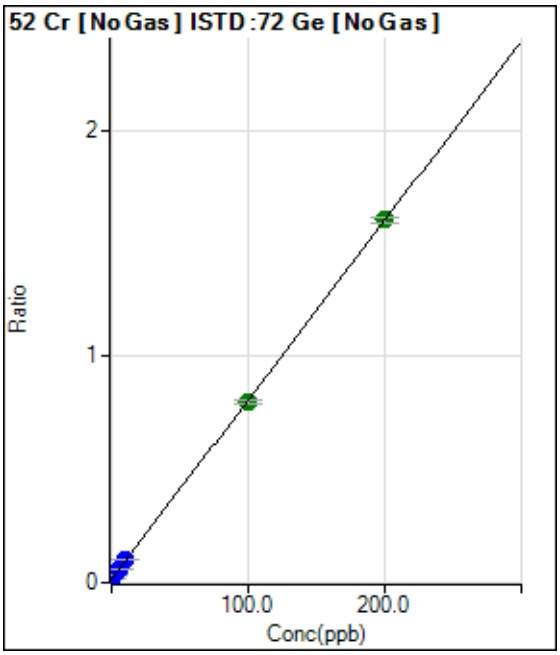


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2656.94	0.0033	P	2.8
2	☐	2.000	1.933	15125.05	0.0188	P	1.0
3	☐	5.000	5.102	35078.06	0.0442	P	1.1
4	☐	10.000	10.249	67561.11	0.0854	P	0.6
5	☐	100.000	101.080	638092.51	0.8130	P	1.1
6	☐	200.000	199.446	1219622.69	1.6009	A	1.2

y = 0.0080 * x + 0.0033
R = 1.0000
DL = 0.03535
BEC = 0.4168

Weight: <None>
Min Conc: <None>

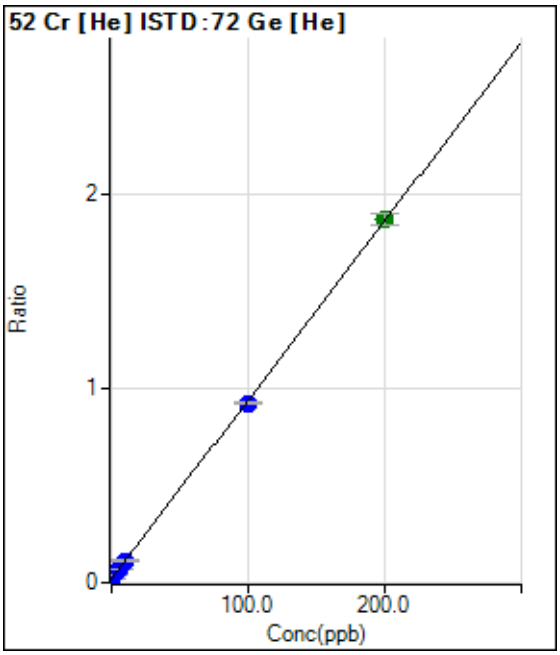
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43348.83	0.0152	P	1.7
2	☐	2.000	2.107	90364.17	0.0319	P	1.0
3	☐	5.000	5.345	163484.06	0.0575	P	1.3
4	☐	10.000	10.611	279382.50	0.0993	P	2.1
5	☐	100.000	99.021	2251930.44	0.8001	A	1.5
6	☐	200.000	200.449	4370870.98	1.6040	A	1.3

y = 0.0079 * x + 0.0152
R = 1.0000
DL = 0.09929
BEC = 1.915

Weight: <None>
Min Conc: <None>

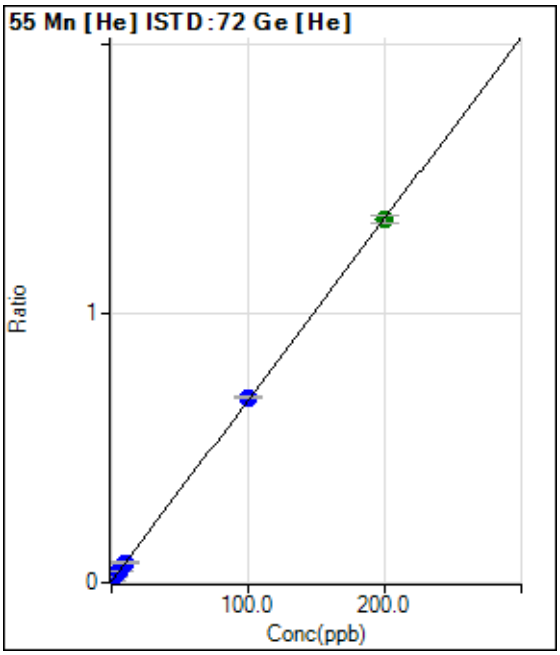


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15702.59	0.0197	P	5.3
2	☐	2.000	1.895	29889.71	0.0372	P	3.1
3	☐	5.000	5.271	54187.34	0.0683	P	1.4
4	☐	10.000	10.218	90051.44	0.1139	P	0.4
5	☐	100.000	98.407	727032.51	0.9264	P	1.3
6	☐	200.000	200.780	1424028.68	1.8695	A	3.1

y = 0.0092 * x + 0.0197
R = 1.0000
DL = 0.3416
BEC = 2.142

Weight: <None>
Min Conc: <None>

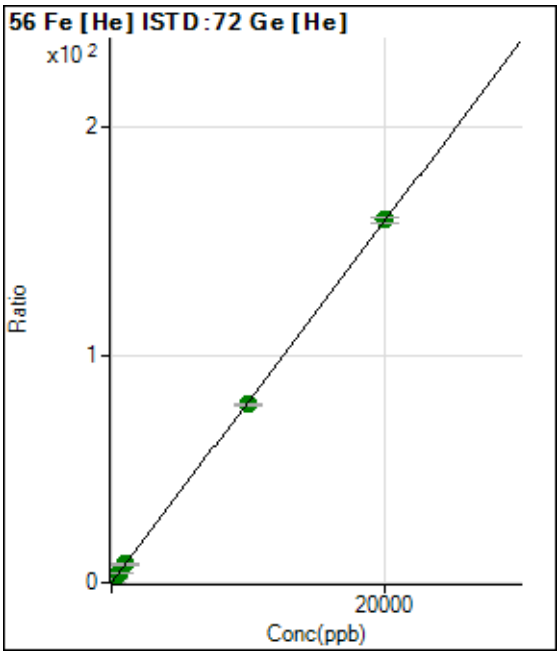
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3837.27	0.0048	P	8.7
2	☐	2.000	2.124	15388.92	0.0191	P	0.9
3	☐	5.000	5.186	31580.22	0.0398	P	1.2
4	☐	10.000	10.411	59342.10	0.0750	P	1.4
5	☐	100.000	101.220	539537.30	0.6875	P	1.2
6	☐	200.000	199.364	1027842.95	1.3493	A	2.1

y = 0.0067 * x + 0.0048
R = 1.0000
DL = 0.1858
BEC = 0.715

Weight: <None>
Min Conc: <None>

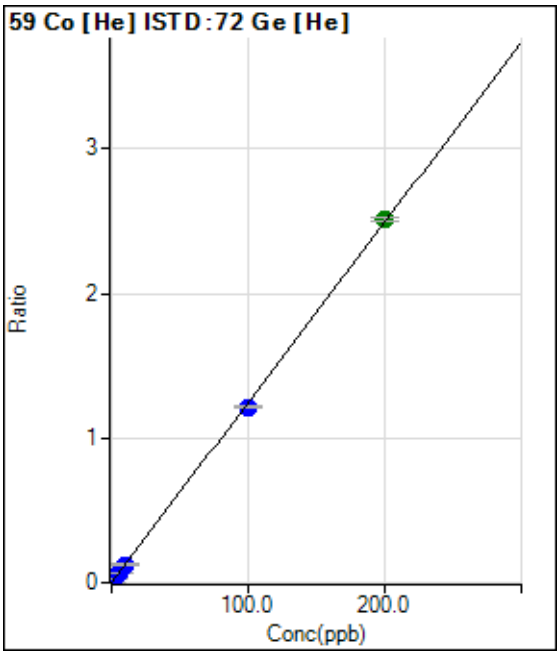


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	24957.34	0.0314	P	5.7
2	☐	200.000	205.356	1336061.90	1.6624	A	2.9
3	☐	500.000	514.277	3265969.33	4.1160	A	1.7
4	☐	1000.000	1014.201	6394429.70	8.0866	A	2.0
5	☐	10000.00	9848.696	61416119.08	78.2543	A	1.4
6	☐	20000.00	20074.53	121480078.1	159.472	A	1.9

y = 0.0079 * x + 0.0314
R = 1.0000
DL = 0.6755
BEC = 3.947

Weight: <None>
Min Conc: <None>

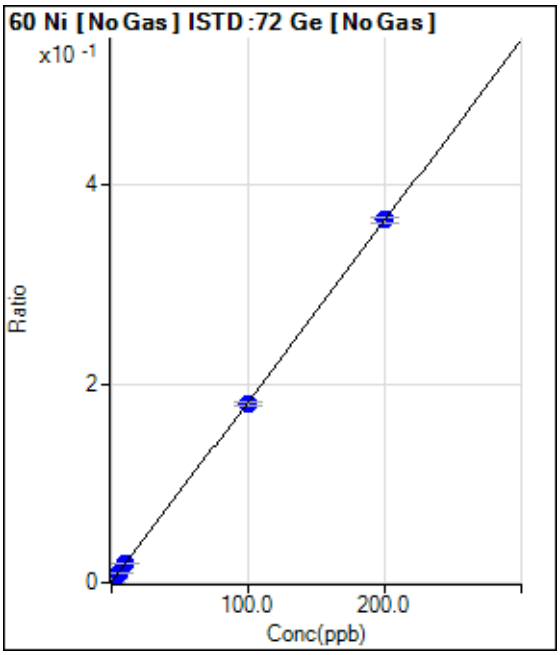
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	130.00	0.0002	P	27.6
2	☐	2.000	1.963	19784.62	0.0246	P	1.0
3	☐	5.000	5.027	49821.01	0.0628	P	2.2
4	☐	10.000	10.110	99719.78	0.1261	P	0.7
5	☐	100.000	97.196	950328.48	1.2109	P	1.0
6	☐	200.000	201.396	1911154.71	2.5088	A	1.0

y = 0.0125 * x + 1.6357E-004
R = 0.9999
DL = 0.01087
BEC = 0.01313

Weight: <None>
Min Conc: <None>

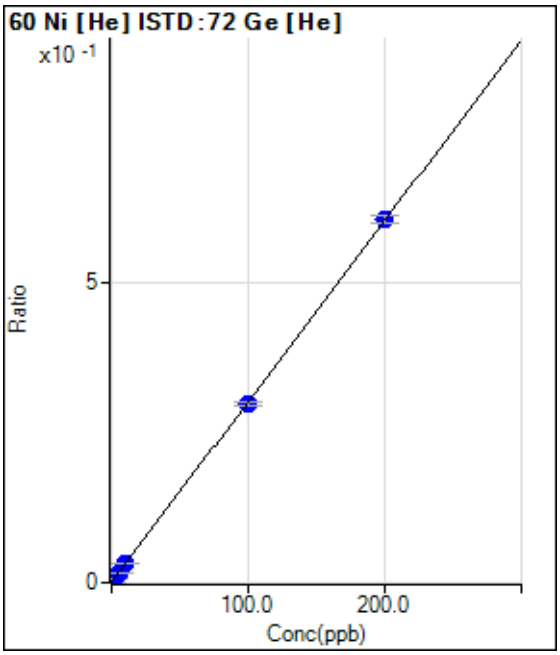


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	940.05	0.0003	P	7.1
2	☐	2.000	1.986	11184.75	0.0039	P	4.1
3	☐	5.000	5.151	27588.40	0.0097	P	1.1
4	☐	10.000	10.469	54572.83	0.0194	P	3.9
5	☐	100.000	99.018	508504.03	0.1807	P	2.2
6	☐	200.000	200.464	995782.07	0.3654	P	1.8

y = 0.0018 * x + 3.2901E-004
R = 1.0000
DL = 0.03873
BEC = 0.1806

Weight: <None>
Min Conc: <None>

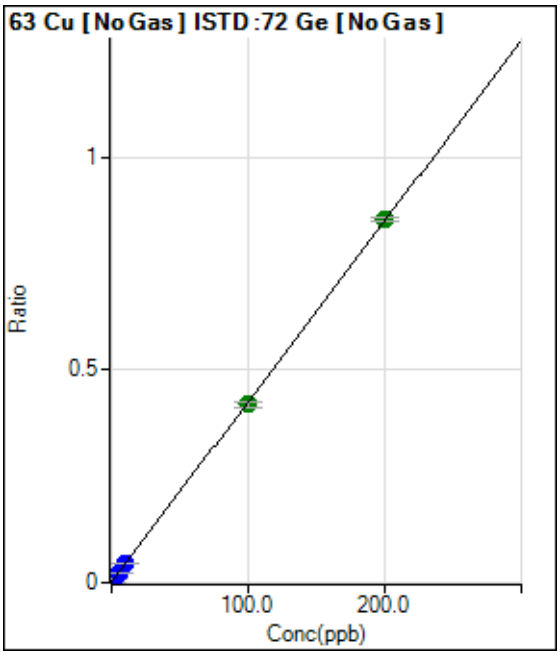
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	470.02	0.0006	P	15.4
2	☐	2.000	2.011	5354.49	0.0067	P	0.7
3	☐	5.000	5.251	13049.87	0.0164	P	1.5
4	☐	10.000	10.298	25053.37	0.0317	P	2.7
5	☐	100.000	98.663	234256.21	0.2985	P	1.9
6	☐	200.000	200.647	461931.09	0.6064	P	2.0

y = 0.0030 * x + 5.9001E-004
R = 1.0000
DL = 0.09029
BEC = 0.1954

Weight: <None>
Min Conc: <None>

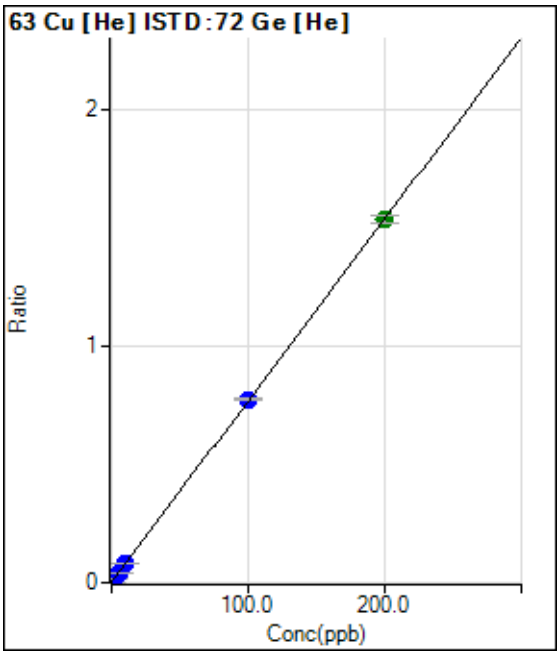


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2253.57	0.0008	P	7.1
2	☐	2.000	2.073	27167.44	0.0096	P	0.0
3	☐	5.000	5.285	65933.09	0.0232	P	0.6
4	☐	10.000	10.706	130010.20	0.0462	P	2.4
5	☐	100.000	98.484	1177746.15	0.4185	A	3.4
6	☐	200.000	200.715	2322147.78	0.8522	A	1.0

y = 0.0042 * x + 7.8923E-004
R = 0.9999
DL = 0.03961
BEC = 0.1861

Weight: <None>
Min Conc: <None>

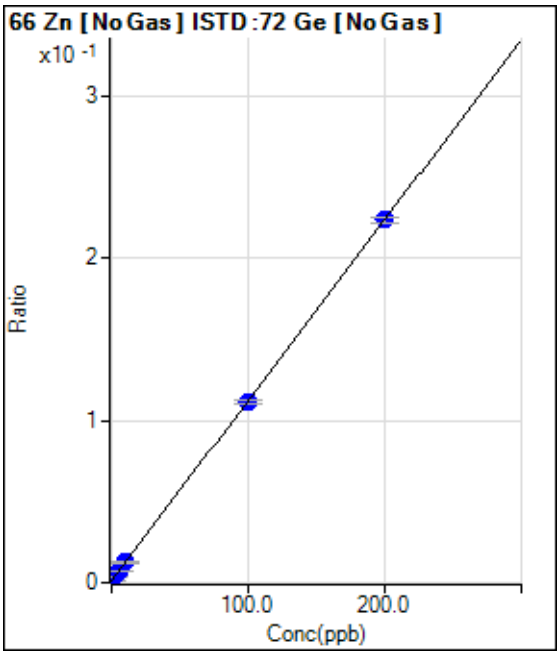
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1053.40	0.0013	P	3.7
2	☐	2.000	2.071	13863.94	0.0173	P	2.8
3	☐	5.000	5.095	32145.06	0.0405	P	1.4
4	☐	10.000	10.458	64653.66	0.0818	P	0.4
5	☐	100.000	100.588	608168.38	0.7749	P	1.0
6	☐	200.000	199.680	1170753.21	1.5369	A	1.9

y = 0.0077 * x + 0.0013
R = 1.0000
DL = 0.01885
BEC = 0.1721

Weight: <None>
Min Conc: <None>

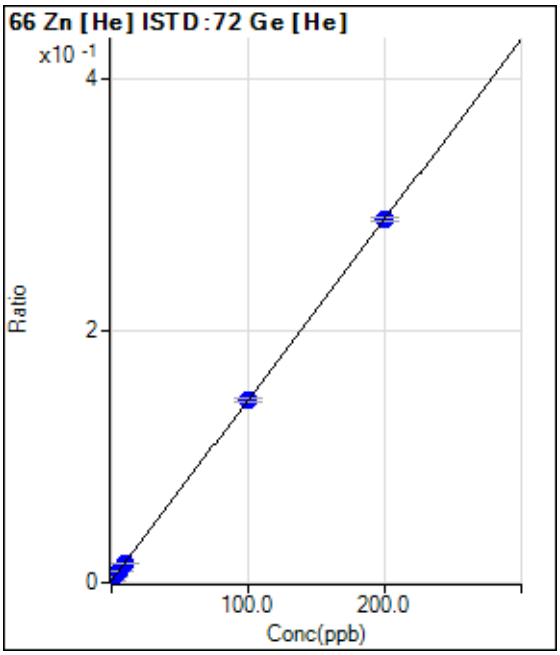


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3147.08	0.0011	P	2.1
2	☐	2.000	2.072	9643.64	0.0034	P	3.5
3	☐	5.000	5.330	19938.25	0.0070	P	3.9
4	☐	10.000	10.299	35276.18	0.0125	P	1.7
5	☐	100.000	99.642	314415.09	0.1117	P	2.2
6	☐	200.000	200.155	608448.41	0.2233	P	1.6

y = 0.0011 * x + 0.0011
R = 1.0000
DL = 0.06144
BEC = 0.9928

Weight: <None>
Min Conc: <None>

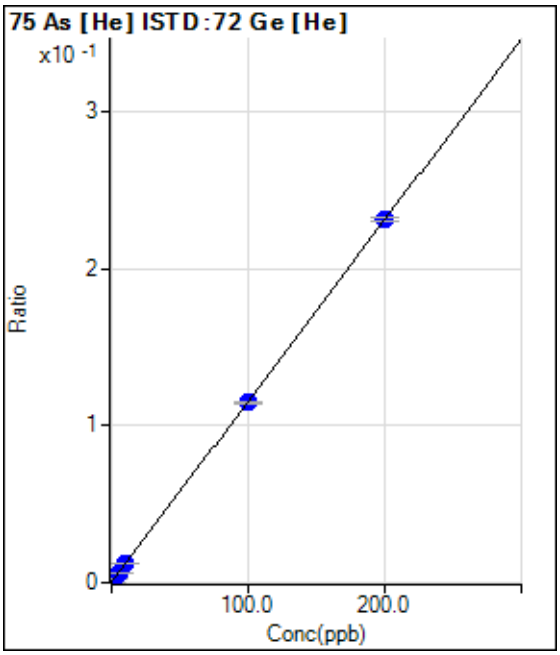
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1330.09	0.0017	P	7.3
2	☐	2.000	1.683	3280.46	0.0041	P	2.8
3	☐	5.000	5.114	7138.67	0.0090	P	4.7
4	☐	10.000	9.853	12482.60	0.0158	P	1.2
5	☐	100.000	100.415	114191.43	0.1455	P	1.9
6	☐	200.000	199.800	219292.04	0.2879	P	0.9

y = 0.0014 * x + 0.0017
R = 1.0000
DL = 0.2563
BEC = 1.166

Weight: <None>
Min Conc: <None>

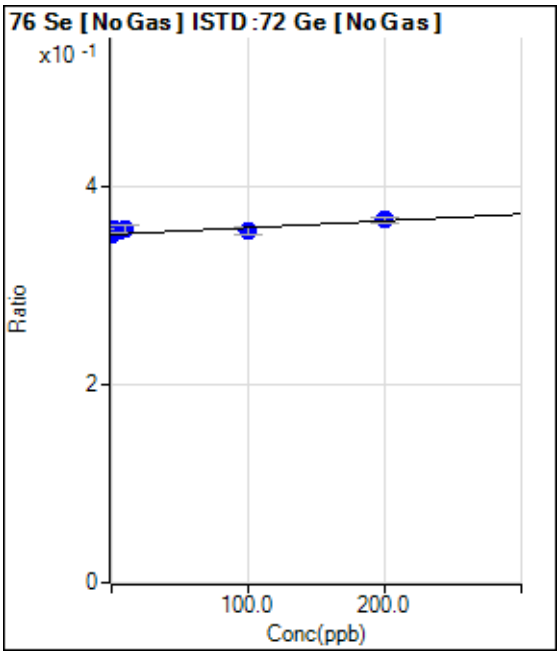


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	224.45	0.0003	P	17.1
2	☐	2.000	1.978	2059.06	0.0026	P	3.9
3	☐	5.000	4.915	4720.85	0.0059	P	2.6
4	☐	10.000	9.997	9338.83	0.0118	P	0.7
5	☐	100.000	99.547	90314.29	0.1151	P	1.2
6	☐	200.000	200.229	176105.03	0.2312	P	1.0

y = 0.0012 * x + 2.8181E-004
R = 1.0000
DL = 0.1251
BEC = 0.2444

Weight: <None>
Min Conc: <None>

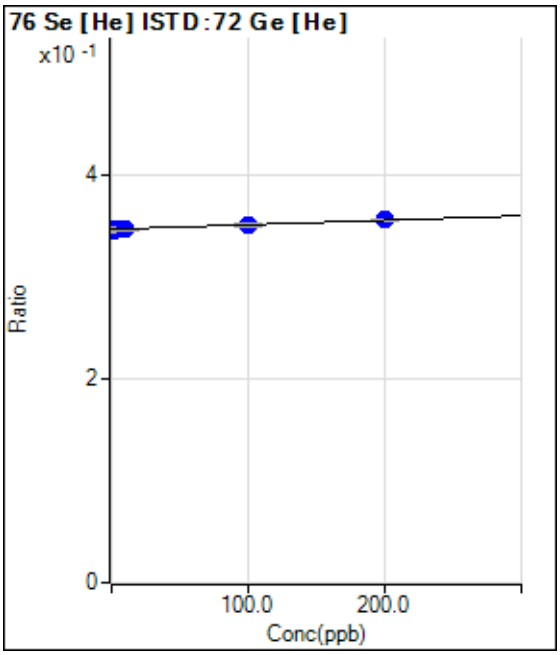
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1002676.03	0.3511	P	1.0
2	☐	2.000	83.132	1011391.86	0.3568	P	0.4
3	☐	5.000	50.437	1007300.22	0.3546	P	0.7
4	☐	10.000	70.294	1001596.24	0.3559	P	2.2
5	☐	100.000	63.066	1000339.26	0.3554	P	2.2
6	☐	200.000	213.505	996713.63	0.3658	P	1.3

y = 6.8825E-005 * x + 0.3511
R = 0.8484
DL = 151.2
BEC = 5101

Weight: <None>
Min Conc: <None>

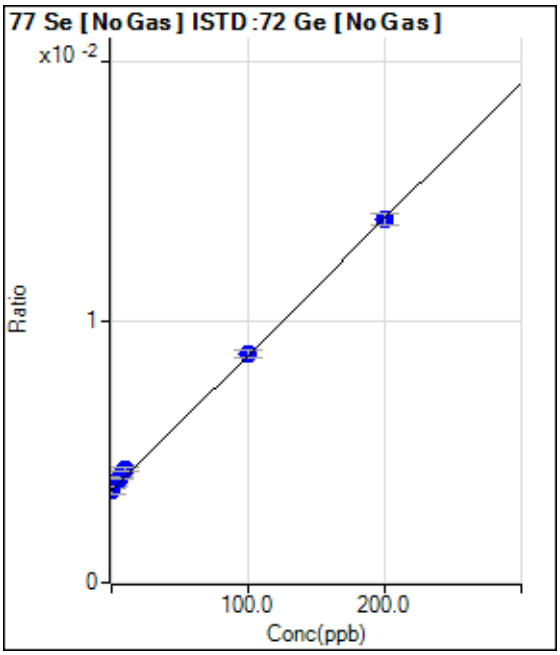


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	276601.14	0.3475	P	0.4
2	☐	2.000	-26.698	278313.08	0.3463	P	0.6
3	☐	5.000	-2.378	275638.00	0.3474	P	1.4
4	☐	10.000	-2.256	274707.41	0.3474	P	0.3
5	☐	100.000	89.781	275829.94	0.3514	P	0.9
6	☐	200.000	206.193	271653.36	0.3566	P	0.6

y = 4.4227E-005 * x + 0.3475
R = 0.9939
DL = 101.3
BEC = 7857

Weight: <None>
Min Conc: <None>

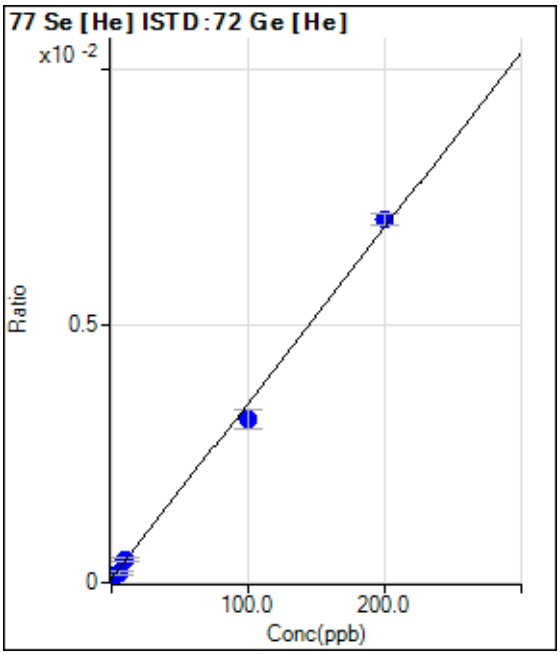
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10030.56	0.0035	P	7.1
2	☐	2.000	5.561	10784.52	0.0038	P	4.4
3	☐	5.000	9.527	11398.40	0.0040	P	1.4
4	☐	10.000	16.444	12305.86	0.0044	P	3.9
5	☐	100.000	100.883	24722.93	0.0088	P	3.4
6	☐	200.000	199.088	37903.54	0.0139	P	3.3

y = 5.2222E-005 * x + 0.0035
R = 0.9996
DL = 14.38
BEC = 67.3

Weight: <None>
Min Conc: <None>

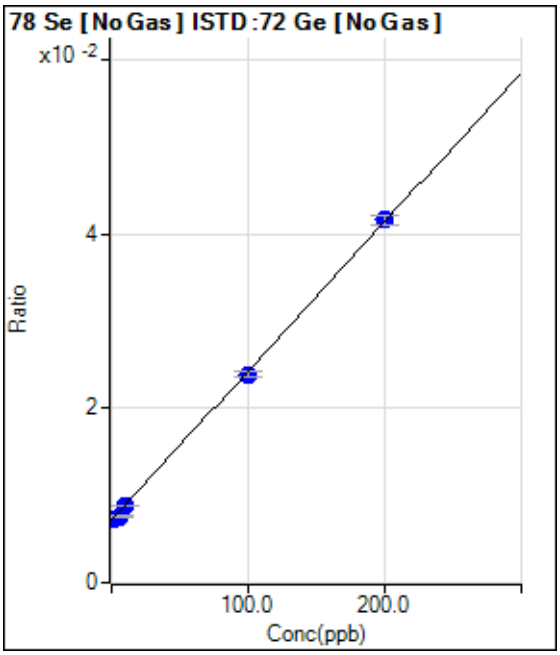


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0001	P	52.1
2	☐	2.000	2.291	130.00	0.0002	P	23.0
3	☐	5.000	2.967	146.67	0.0002	P	23.8
4	☐	10.000	11.000	363.34	0.0005	P	18.5
5	☐	100.000	91.068	2503.61	0.0032	P	12.0
6	☐	200.000	204.464	5381.17	0.0071	P	3.4

y = 3.4132E-005 * x + 8.3512E-005
R = 0.9986
DL = 3.828
BEC = 2.447

Weight: <None>
Min Conc: <None>

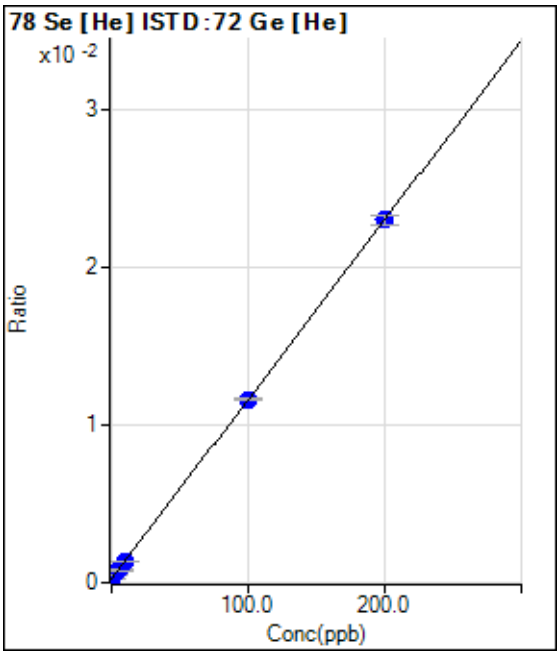
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20585.98	0.0072	P	2.5
2	☐	2.000	-0.153	20359.03	0.0072	P	2.1
3	☐	5.000	2.322	21607.70	0.0076	P	2.4
4	☐	10.000	9.526	24879.80	0.0088	P	1.6
5	☐	100.000	97.763	67438.50	0.0240	P	2.0
6	☐	200.000	201.231	113572.22	0.0417	P	2.7

y = 1.7131E-004 * x + 0.0072
R = 0.9999
DL = 3.16
BEC = 42.08

Weight: <None>
Min Conc: <None>

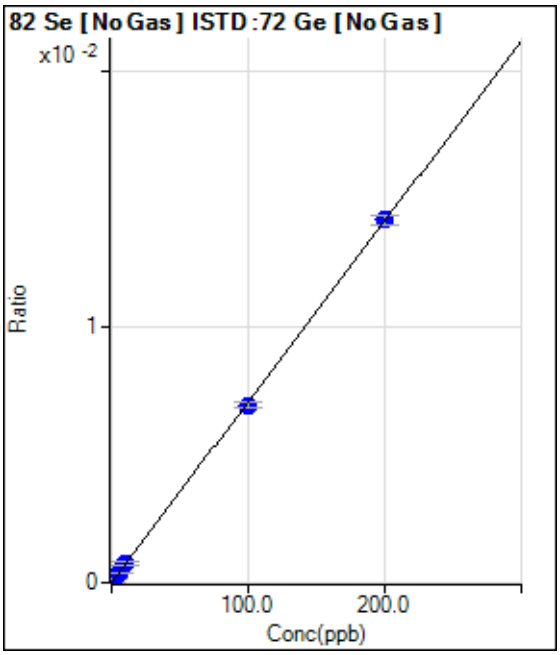


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	189.33	0.0002	P	3.9
2	☐	2.000	2.024	376.01	0.0005	P	2.8
3	☐	5.000	4.931	633.35	0.0008	P	7.7
4	☐	10.000	9.564	1047.38	0.0013	P	2.8
5	☐	100.000	99.906	9096.43	0.0116	P	0.8
6	☐	200.000	200.070	17496.02	0.0230	P	2.5

y = 1.1362E-004 * x + 2.3788E-004
R = 1.0000
DL = 0.2462
BEC = 2.094

Weight: <None>
Min Conc: <None>

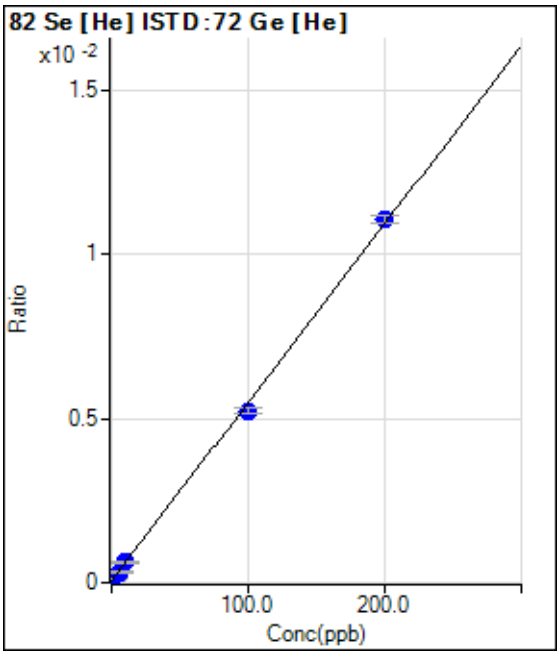
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	24.57	0.0000	P	300.6
2	☐	2.000	2.039	431.20	0.0002	P	9.2
3	☐	5.000	4.914	1008.09	0.0004	P	7.7
4	☐	10.000	10.548	2114.90	0.0008	P	10.7
5	☐	100.000	98.194	19499.14	0.0069	P	3.0
6	☐	200.000	200.877	38601.08	0.0142	P	2.9

y = 7.0475E-005 * x + 8.4135E-006
R = 0.9999
DL = 1.077
BEC = 0.1194

Weight: <None>
Min Conc: <None>

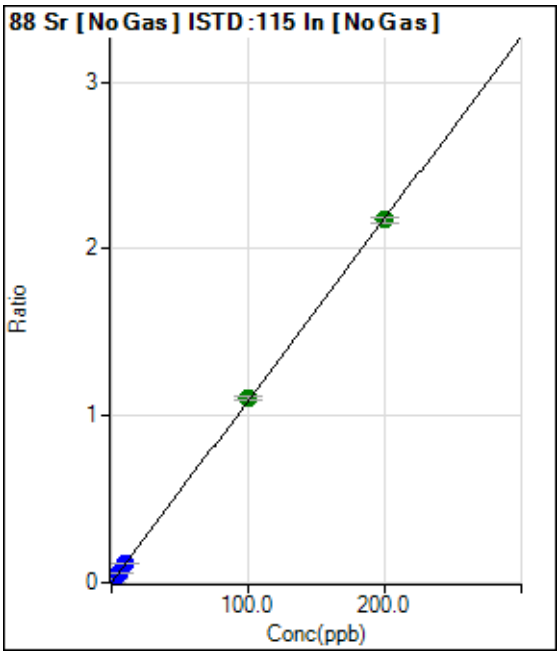


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0001	P	0.9
2	☐	2.000	1.669	123.33	0.0002	P	19.2
3	☐	5.000	4.641	250.01	0.0003	P	8.2
4	☐	10.000	10.244	490.02	0.0006	P	9.6
5	☐	100.000	95.325	4117.37	0.0052	P	3.3
6	☐	200.000	202.338	8429.42	0.0111	P	2.3

y = 5.4365E-005 * x + 6.2815E-005
R = 0.9996
DL = 0.02989
BEC = 1.155

Weight: <None>
Min Conc: <None>

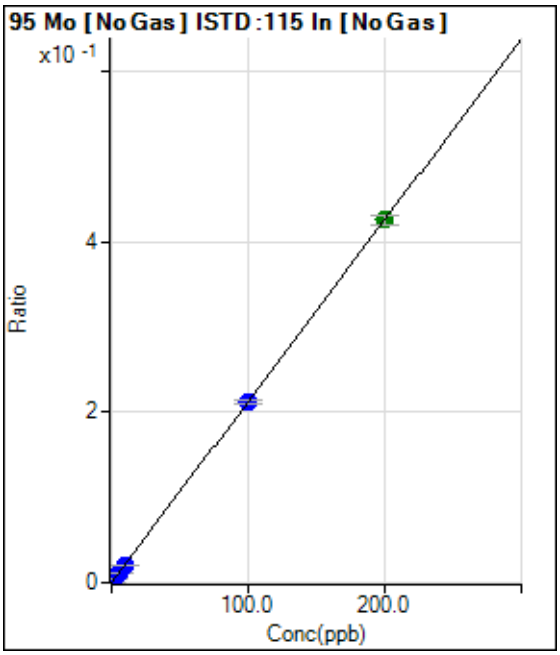
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1456.77	0.0004	P	5.1
2	☐	2.000	2.032	74242.23	0.0226	P	3.4
3	☐	5.000	5.189	184377.42	0.0570	P	2.1
4	☐	10.000	10.100	365209.55	0.1105	P	1.4
5	☐	100.000	101.286	3504843.07	1.1043	A	2.2
6	☐	200.000	199.347	6805568.65	2.1729	A	1.5

y = 0.0109 * x + 4.4438E-004
R = 1.0000
DL = 0.006283
BEC = 0.04078

Weight: <None>
Min Conc: <None>

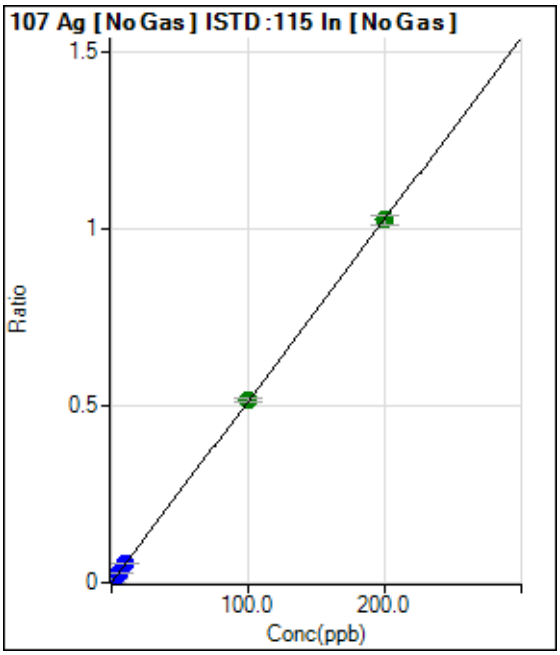


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	223.34	0.0001	P	11.6
2	☐	2.000	1.965	13967.72	0.0042	P	2.0
3	☐	5.000	5.029	34832.61	0.0108	P	3.1
4	☐	10.000	9.692	68365.44	0.0207	P	0.7
5	☐	100.000	99.719	673558.97	0.2122	P	2.5
6	☐	200.000	200.156	1333725.97	0.4259	A	2.4

y = 0.0021 * x + 6.8140E-005
R = 1.0000
DL = 0.01111
BEC = 0.03203

Weight: <None>
Min Conc: <None>

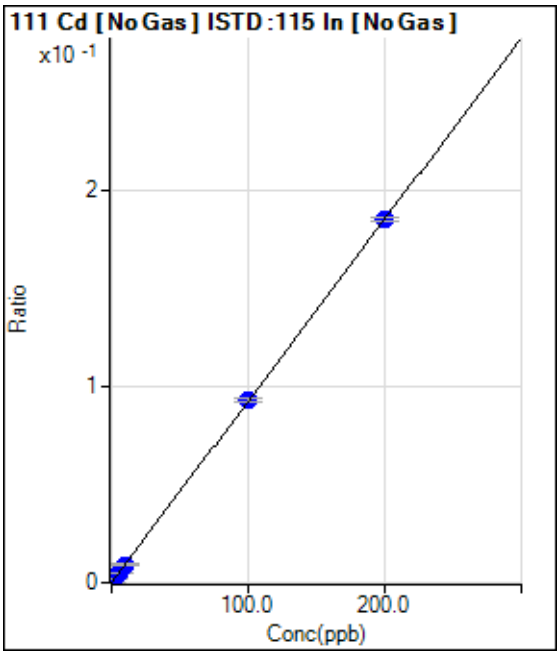
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	186.67	0.0001	P	18.5
2	☐	2.000	2.091	35417.91	0.0108	P	0.8
3	☐	5.000	5.332	88592.43	0.0274	P	0.2
4	☐	10.000	10.424	176753.47	0.0535	P	1.6
5	☐	100.000	100.311	1631897.63	0.5142	A	2.4
6	☐	200.000	199.814	3207108.81	1.0241	A	2.4

y = 0.0051 * x + 5.6918E-005
R = 1.0000
DL = 0.00618
BEC = 0.01111

Weight: <None>
Min Conc: <None>

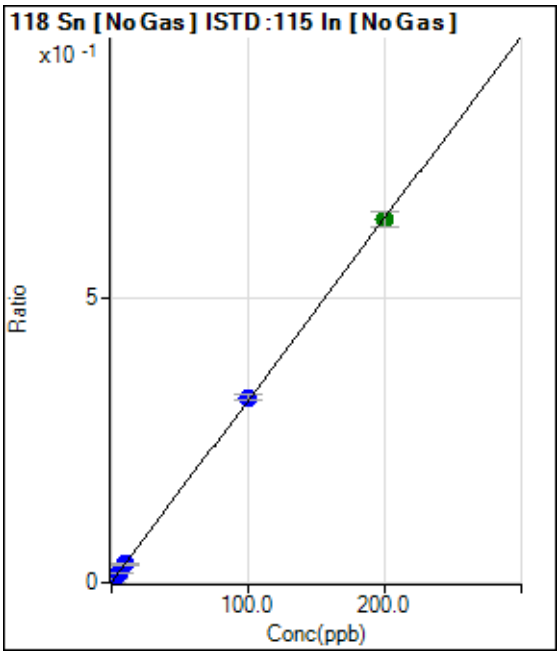


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-4.06	0.0000	P	-142.0
2	☐	2.000	1.940	5896.80	0.0018	P	1.1
3	☐	5.000	5.063	15146.88	0.0047	P	5.1
4	☐	10.000	9.981	30502.44	0.0092	P	5.4
5	☐	100.000	100.286	294428.43	0.0928	P	2.1
6	☐	200.000	199.857	579036.56	0.1849	P	1.1

y = 9.2499E-004 * x - 1.2384E-006
R = 1.0000
DL = 0.005705
BEC = -0.001339

Weight: <None>
Min Conc: <None>

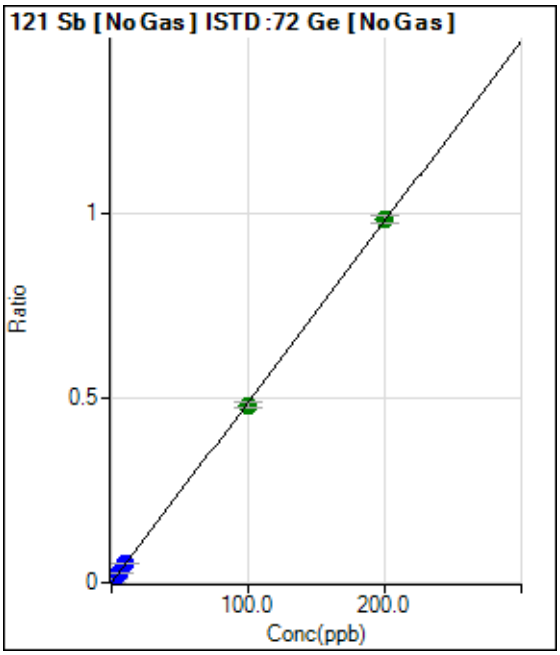
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1610.13	0.0005	P	5.5
2	☐	2.000	1.937	22015.44	0.0067	P	3.5
3	☐	5.000	5.106	54516.42	0.0169	P	0.8
4	☐	10.000	9.919	106644.02	0.0323	P	1.6
5	☐	100.000	101.756	1036311.91	0.3265	P	2.6
6	☐	200.000	199.124	1998625.18	0.6385	A	4.4

y = 0.0032 * x + 4.9109E-004
R = 0.9999
DL = 0.02542
BEC = 0.1533

Weight: <None>
Min Conc: <None>

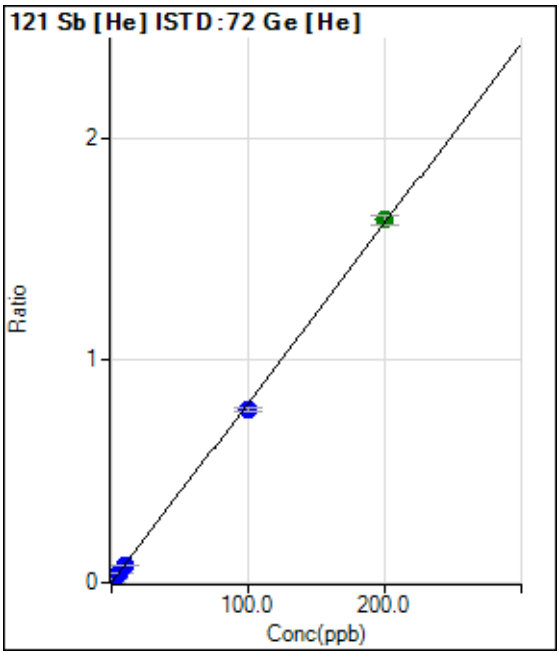


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	436.68	0.0002	P	25.3
2	☐	2.000	2.001	28230.80	0.0100	P	2.1
3	☐	5.000	5.122	71736.01	0.0253	P	3.2
4	☐	10.000	10.257	141884.51	0.0504	P	1.6
5	☐	100.000	98.257	1355460.45	0.4817	A	3.2
6	☐	200.000	200.856	2682491.31	0.9845	A	2.0

y = 0.0049 * x + 1.5263E-004
R = 0.9999
DL = 0.02365
BEC = 0.03114

Weight: <None>
Min Conc: <None>

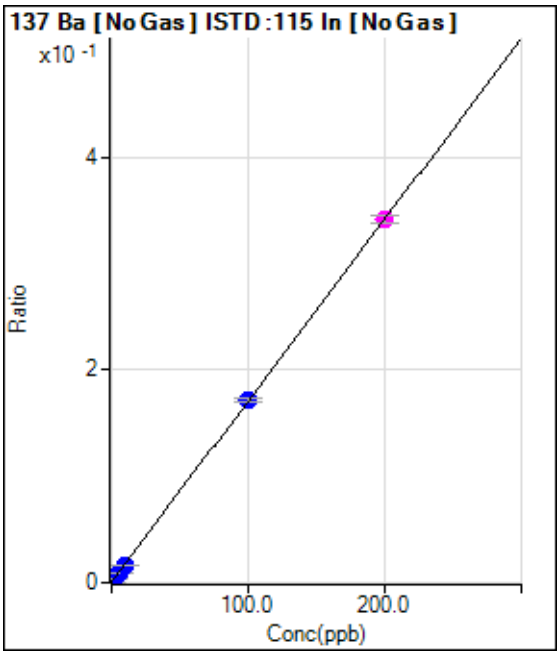
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	183.34	0.0002	P	18.4
2	☐	2.000	1.955	12876.58	0.0160	P	1.7
3	☐	5.000	4.957	31949.23	0.0403	P	2.4
4	☐	10.000	9.886	63309.48	0.0801	P	3.7
5	☐	100.000	96.065	609053.40	0.7761	P	1.7
6	☐	200.000	201.975	1242608.65	1.6314	A	2.5

y = 0.0081 * x + 2.3010E-004
R = 0.9997
DL = 0.01576
BEC = 0.02849

Weight: <None>
Min Conc: <None>

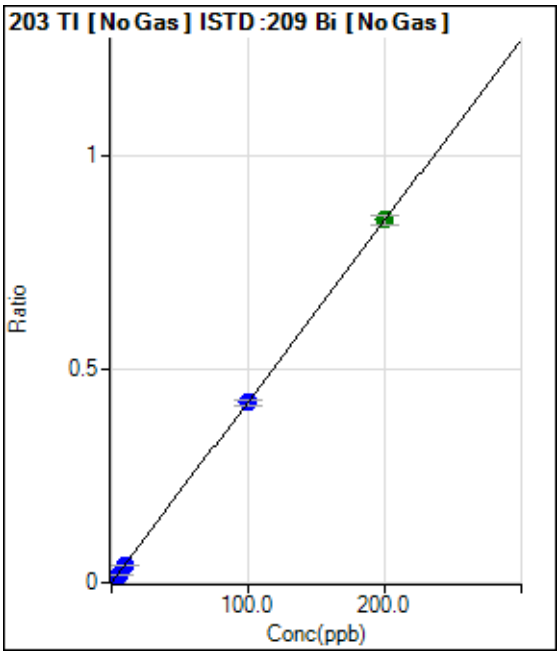


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1876.84	0.0006	P	12.3
2	☐	2.000	1.865	12319.39	0.0037	P	3.5
3	☐	5.000	4.912	28922.62	0.0089	P	2.1
4	☐	10.000	9.602	55927.32	0.0169	P	2.2
5	☐	100.000	100.346	544301.68	0.1715	P	2.4
6	☐	200.000	199.850	1067894.75	0.3410	M	2.1

y = 0.0017 * x + 5.7247E-004
R = 1.0000
DL = 0.1245
BEC = 0.3361

Weight: <None>
Min Conc: <None>

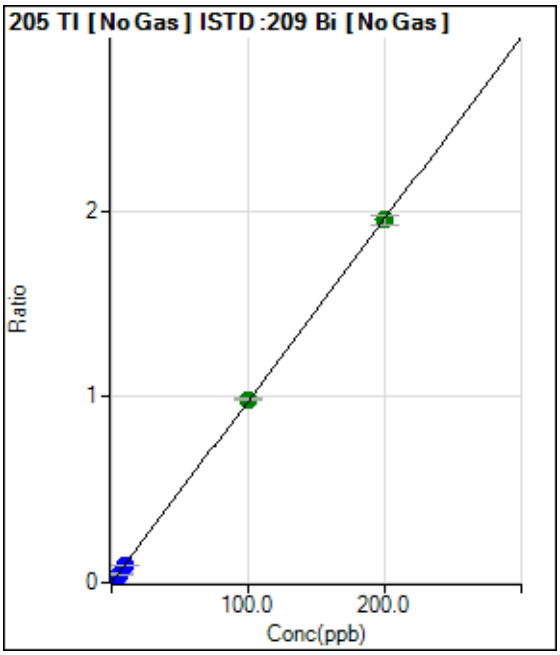
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	96.67	0.0000	P	66.3
2	☐	2.000	1.759	19422.01	0.0075	P	4.1
3	☐	5.000	4.582	49649.34	0.0195	P	5.2
4	☐	10.000	9.271	100559.20	0.0394	P	1.7
5	☐	100.000	99.337	1053232.43	0.4217	P	2.5
6	☐	200.000	200.381	2074058.51	0.8506	A	2.7

y = 0.0042 * x + 3.7699E-005
R = 1.0000
DL = 0.01768
BEC = 0.008882

Weight: <None>
Min Conc: <None>

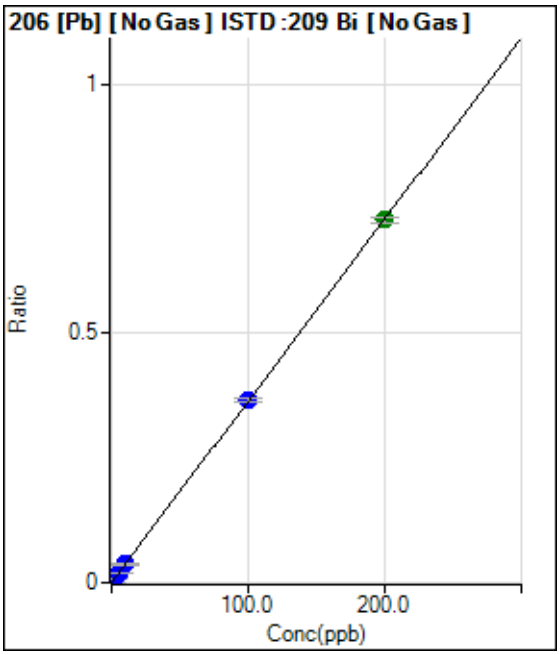


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	240.01	0.0001	P	24.1
2	☐	2.000	1.834	46687.65	0.0180	P	2.0
3	☐	5.000	4.725	118061.95	0.0463	P	3.2
4	☐	10.000	9.531	238294.43	0.0934	P	2.4
5	☐	100.000	100.910	2467135.69	0.9875	A	0.5
6	☐	200.000	199.577	4762115.14	1.9530	A	2.4

y = 0.0098 * x + 9.4897E-005
R = 1.0000
DL = 0.00701
BEC = 0.009698

Weight: <None>
Min Conc: <None>

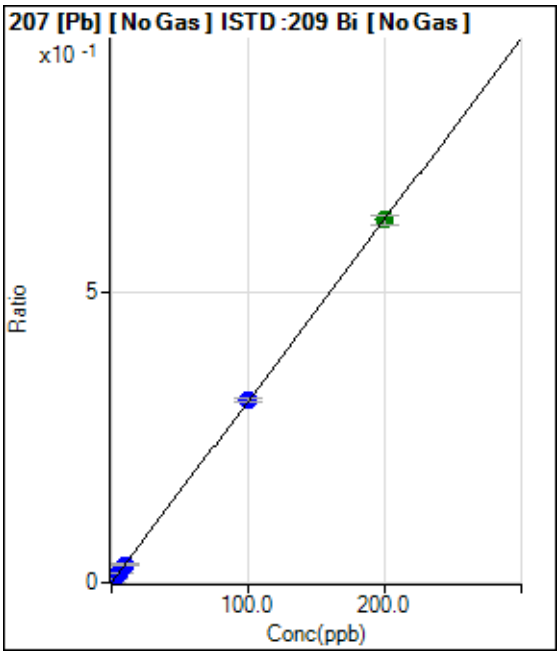
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	346.68	0.0001	P	38.3
2	☐	2.000	1.949	18721.06	0.0072	P	3.2
3	☐	5.000	5.181	48427.67	0.0190	P	3.3
4	☐	10.000	10.037	93617.04	0.0367	P	3.6
5	☐	100.000	100.348	913020.35	0.3655	P	1.8
6	☐	200.000	199.820	1774525.81	0.7277	A	1.6

y = 0.0036 * x + 1.3744E-004
R = 1.0000
DL = 0.04339
BEC = 0.03774

Weight: <None>
Min Conc: <None>

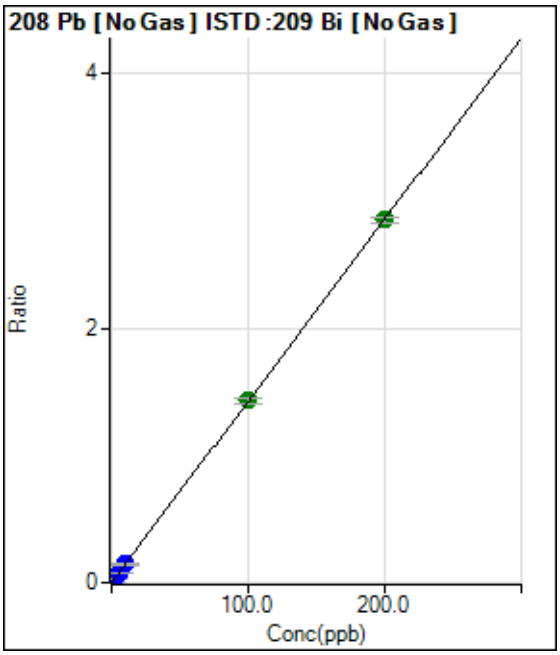


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	243.34	0.0001	P	20.4
2	☐	2.000	1.924	15790.28	0.0061	P	2.5
3	☐	5.000	5.085	40683.61	0.0160	P	3.2
4	☐	10.000	10.025	80110.10	0.0314	P	2.4
5	☐	100.000	100.232	781628.22	0.3129	P	2.2
6	☐	200.000	199.881	1521431.70	0.6239	A	2.7

y = 0.0031 * x + 9.5628E-005
R = 1.0000
DL = 0.01876
BEC = 0.03064

Weight: <None>
Min Conc: <None>

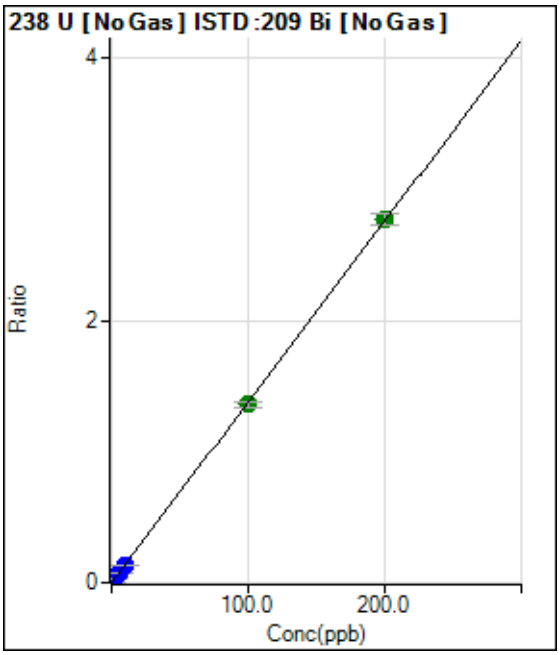
Calibration for 227_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1233.39	0.0005	P	17.0
2	☐	2.000	1.982	74378.93	0.0287	P	1.8
3	☐	5.000	5.222	190908.53	0.0749	P	2.9
4	☐	10.000	10.142	370204.25	0.1450	P	2.4
5	☐	100.000	100.197	3568294.79	1.4286	A	2.4
6	☐	200.000	199.889	6948614.43	2.8496	A	1.6

y = 0.0143 * x + 4.8703E-004
R = 1.0000
DL = 0.01745
BEC = 0.03417

Weight: <None>
Min Conc: <None>

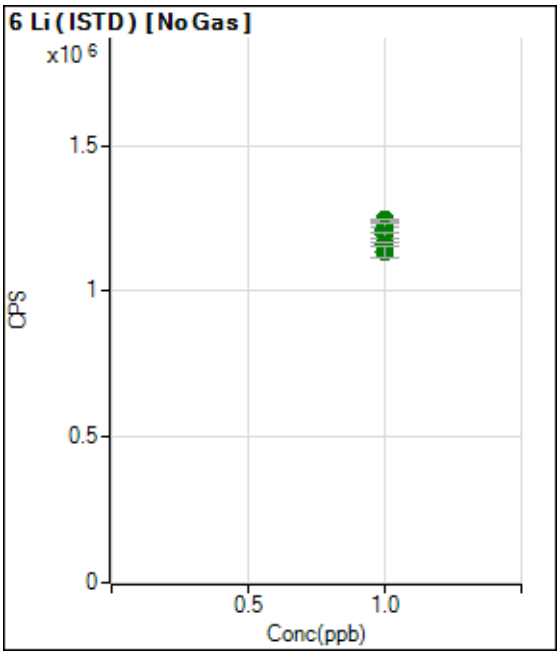


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	113.0
2	☐	2.000	1.942	69259.10	0.0268	P	2.0
3	☐	5.000	5.034	176707.01	0.0693	P	2.8
4	☐	10.000	9.916	348640.49	0.1366	P	2.6
5	☐	100.000	98.479	3387908.18	1.3565	A	2.5
6	☐	200.000	200.764	6742834.28	2.7654	A	3.1

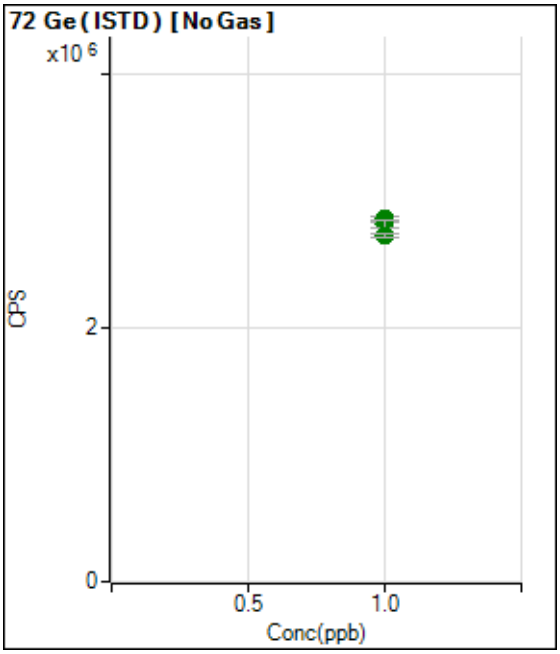
y = 0.0138 * x + 5.1535E-006
R = 1.0000
DL = 0.001269
BEC = 0.0003741

Weight: <None>
Min Conc: <None>

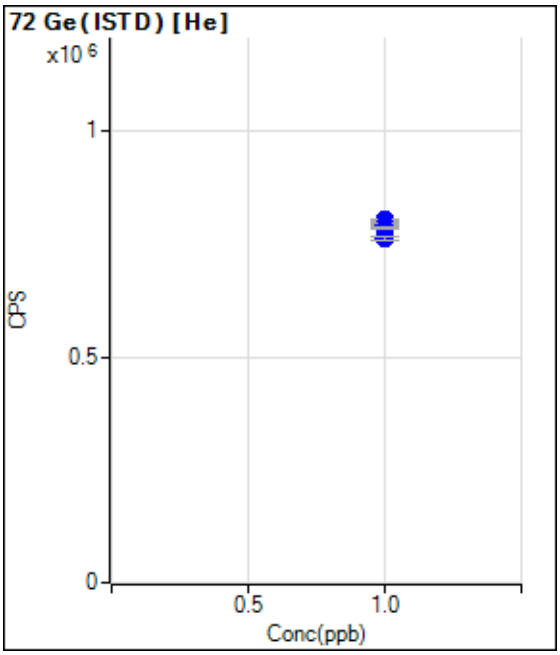
Calibration for 227_ICV.d



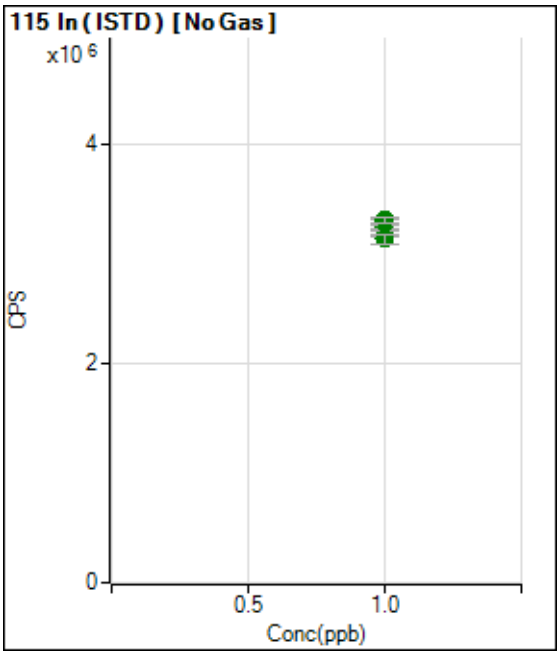
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1244630.60		A	0.8
2	☐	1.000		1209753.32		A	1.8
3	☐	1.000		1216494.10		A	2.8
4	☐	1.000		1192743.53		A	1.5
5	☐	1.000		1160770.06		A	1.0
6	☐	1.000		1133969.27		A	3.3



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2855672.36		A	1.2
2	☐	1.000		2834519.86		A	0.1
3	☐	1.000		2840963.19		A	0.6
4	☐	1.000		2814937.88		A	2.4
5	☐	1.000		2815300.38		A	2.2
6	☐	1.000		2724991.73		A	0.6

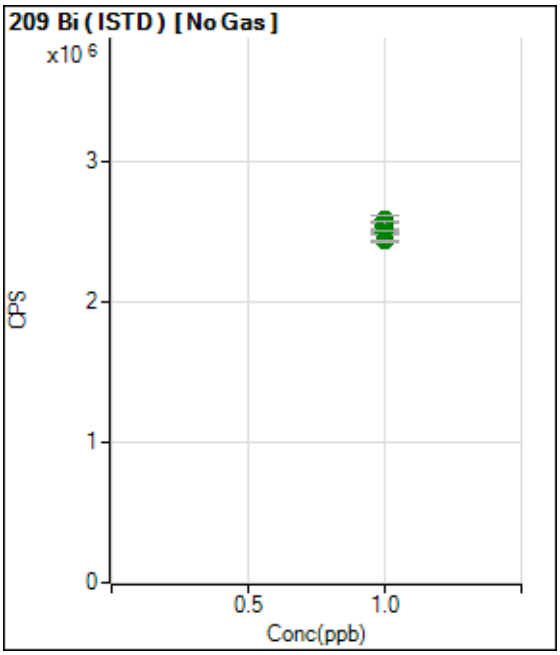


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		796033.43		P	0.9
2	☐	1.000		803706.60		P	0.5
3	☐	1.000		793506.21		P	0.2
4	☐	1.000		790827.46		P	1.0
5	☐	1.000		784880.74		P	0.8
6	☐	1.000		761833.08		P	1.1



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3278463.76		A	0.3
2	☐	1.000		3287300.38		A	1.7
3	☐	1.000		3235263.29		A	1.1
4	☐	1.000		3304849.23		A	1.5
5	☐	1.000		3174648.04		A	1.5
6	☐	1.000		3132789.30		A	2.7

Calibration for 227_ICV.d



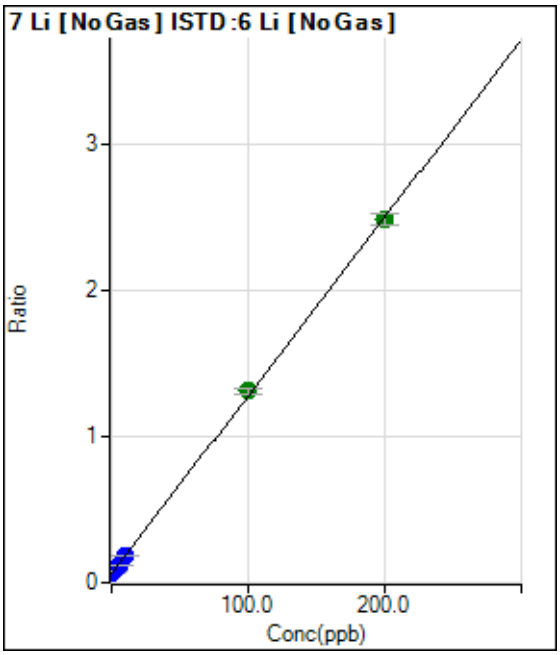
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2537706.94		A	2.6
2	☐	1.000		2588927.46		A	2.1
3	☐	1.000		2549131.94		A	1.5
4	☐	1.000		2553256.42		A	2.1
5	☐	1.000		2498199.13		A	1.6
6	☐	1.000		2438612.41		A	0.7

Calibration for 023_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\032923A.b\
Analysis File: 032923A.batch.bin
DA Date-Time: 3/29/2023 10:42:06 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	016CALB.d	CAL BLK	3/29/2023 10:34:58 AM
2	017CALS.d	2/10/200	3/29/2023 10:36:56 AM
3	018CALS.d	5/25/500	3/29/2023 10:38:54 AM
4	019CALS.d	10/50/100	3/29/2023 10:40:52 AM
5	020CALS.d	100/500/10K	3/29/2023 10:42:49 AM
6	021CALS.d	200/1000/20K	3/29/2023 10:44:42 AM

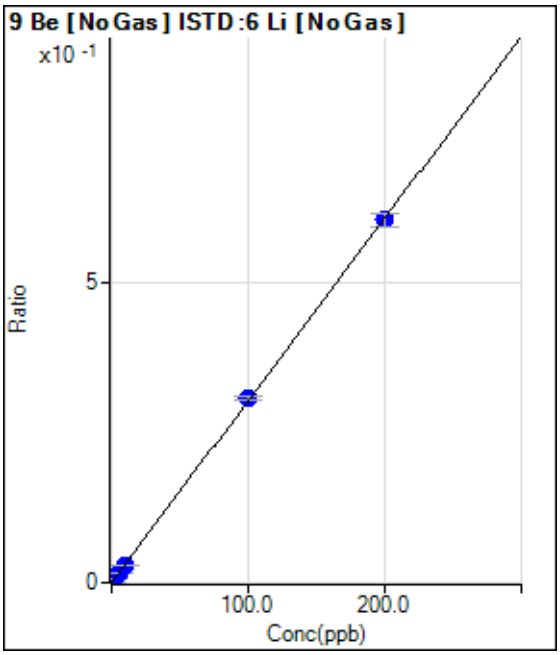
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	68713.26	0.0609	P	0.8
2	☐	2.000	1.998	97405.64	0.0852	P	1.4
3	☐	5.000	5.140	141159.13	0.1235	P	2.0
4	☐	10.000	10.335	214904.33	0.1868	P	1.9
5	☐	100.000	102.462	1446667.06	1.3092	A	3.0
6	☐	200.000	198.749	2730391.52	2.4822	A	3.3

y = 0.0122 * x + 0.0609
R = 0.9999
DL = 0.1199
BEC = 4.997

Weight: <None>
Min Conc: <None>

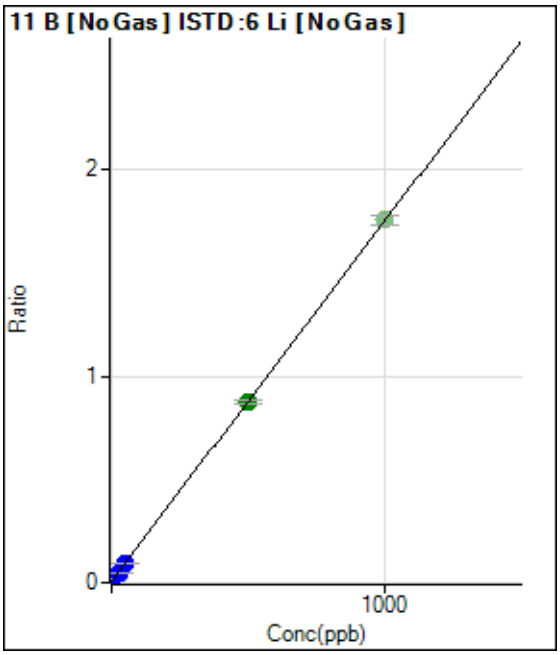


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	114.1
2	☐	2.000	1.912	6636.60	0.0058	P	3.5
3	☐	5.000	4.932	17110.48	0.0150	P	2.8
4	☐	10.000	9.739	34009.32	0.0296	P	1.3
5	☐	100.000	101.403	340017.80	0.3077	P	2.5
6	☐	200.000	199.314	665113.38	0.6048	P	3.5

y = 0.0030 * x + 5.9368E-006
R = 1.0000
DL = 0.006698
BEC = 0.001957

Weight: <None>
Min Conc: <None>

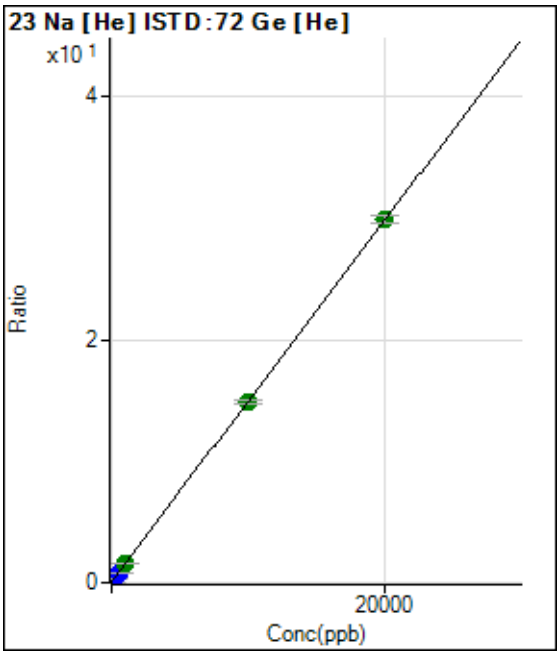
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7168.54	0.0064	P	3.3
2	☐	10.000	9.805	26804.08	0.0235	P	2.8
3	☐	25.000	25.105	57309.74	0.0501	P	2.8
4	☐	50.000	49.930	107497.99	0.0934	P	2.7
5	☐	500.000	500.006	970852.14	0.8785	A	2.3
6	☑	1000.000		1932584.71	1.7571	A	2.9

y = 0.0017 * x + 0.0064
R = 1.0000
DL = 0.3587
BEC = 3.643

Weight: <None>
Min Conc: <None>

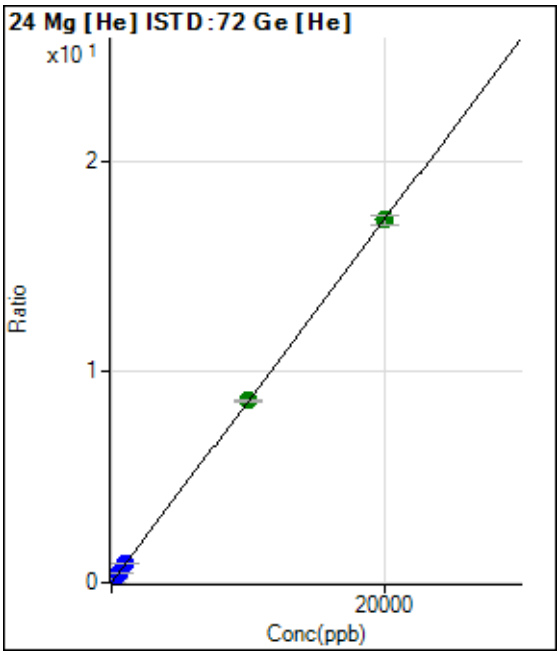


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	48474.38	0.0641	P	2.7
2	☐	200.000	210.951	283466.29	0.3778	P	2.1
3	☐	500.000	529.274	646715.29	0.8513	P	2.0
4	☐	1000.000	1037.541	1209991.88	1.6073	A	1.3
5	☐	10000.00	9926.489	11136663.17	14.8284	A	2.4
6	☐	20000.00	20034.03	22225622.17	29.8620	A	2.0

y = 0.0015 * x + 0.0641
R = 1.0000
DL = 3.451
BEC = 43.07

Weight: <None>
Min Conc: <None>

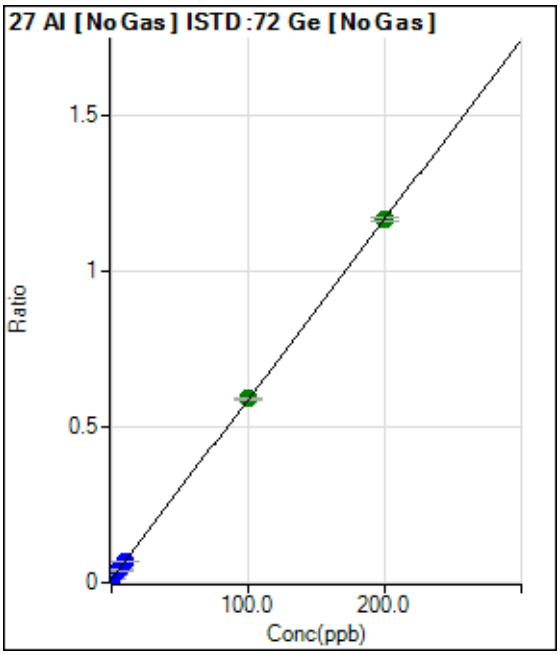
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	483.35	0.0006	P	12.8
2	☐	200.000	213.841	138677.49	0.1848	P	1.1
3	☐	500.000	541.017	354527.08	0.4666	P	1.9
4	☐	1000.000	1074.432	697138.32	0.9261	P	1.9
5	☐	10000.00	10015.39	6479892.61	8.6274	A	1.5
6	☐	20000.00	19987.41	12812462.73	17.2167	A	2.6

y = 8.6135E-004 * x + 6.3901E-004
R = 1.0000
DL = 0.2856
BEC = 0.7419

Weight: <None>
Min Conc: <None>

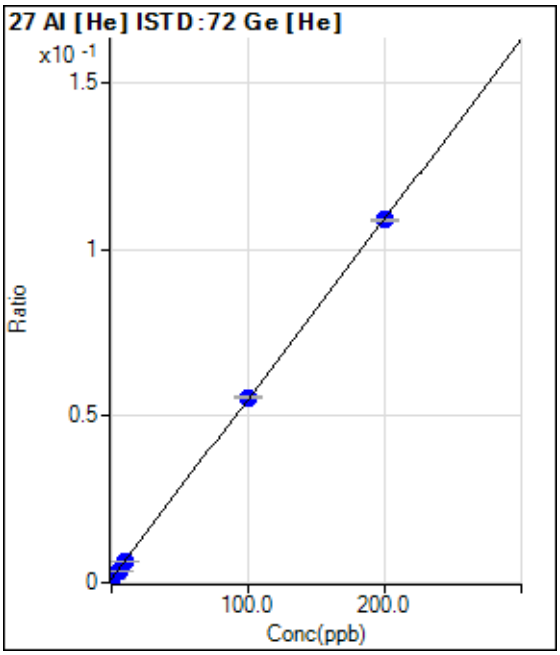


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28756.75	0.0107	P	2.5
2	☐	2.000	1.940	58345.64	0.0219	P	0.4
3	☐	5.000	5.091	107442.46	0.0401	P	1.1
4	☐	10.000	10.245	185919.31	0.0699	P	1.6
5	☐	100.000	100.423	1565039.98	0.5905	A	1.4
6	☐	200.000	199.775	3045011.31	1.1641	A	1.2

y = 0.0058 * x + 0.0107
R = 1.0000
DL = 0.1398
BEC = 1.858

Weight: <None>
Min Conc: <None>

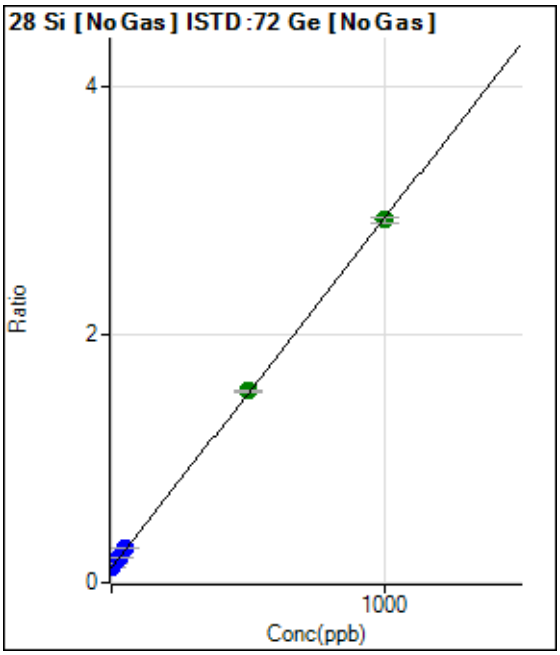
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	933.47	0.0012	P	21.3
2	☐	2.000	1.671	1603.46	0.0021	P	2.3
3	☐	5.000	4.262	2683.64	0.0035	P	3.7
4	☐	10.000	9.370	4734.22	0.0063	P	3.7
5	☐	100.000	100.938	41776.26	0.0556	P	1.8
6	☐	200.000	199.584	80978.78	0.1088	P	0.6

y = 5.3882E-004 * x + 0.0012
R = 1.0000
DL = 1.468
BEC = 2.294

Weight: <None>
Min Conc: <None>

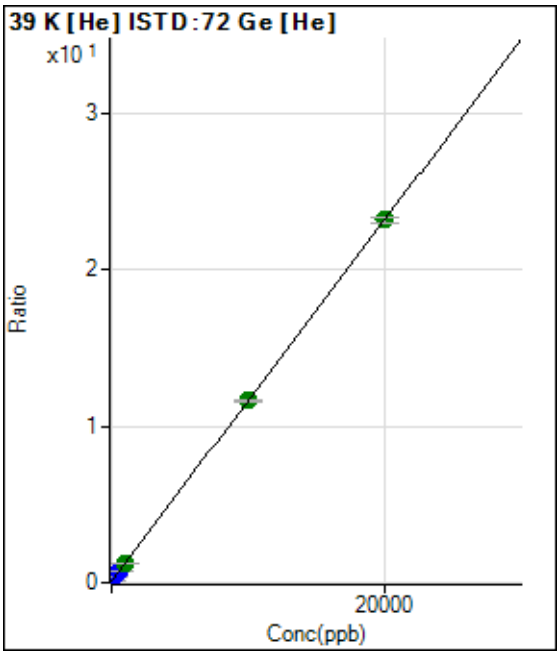


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	317248.29	0.1183	P	1.5
2	☐	10.000	11.983	404870.24	0.1521	P	1.6
3	☐	25.000	30.217	545441.88	0.2036	P	4.6
4	☐	50.000	55.495	731628.89	0.2750	P	1.7
5	☐	500.000	507.828	4112108.90	1.5516	A	1.0
6	☐	1000.000	995.661	7660509.47	2.9285	A	1.8

y = 0.0028 * x + 0.1183
R = 1.0000
DL = 1.884
BEC = 41.92

Weight: <None>
Min Conc: <None>

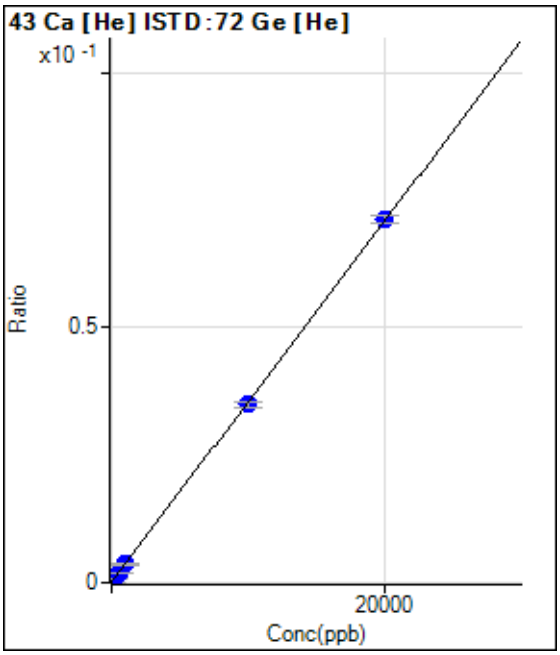
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	67755.82	0.0895	P	1.6
2	☐	200.000	207.323	246689.87	0.3288	P	1.2
3	☐	500.000	523.645	527008.69	0.6938	P	2.5
4	☐	1000.000	1023.345	956217.83	1.2703	A	2.1
5	☐	10000.00	9990.144	8725910.08	11.6170	A	0.8
6	☐	20000.00	20003.09	17246955.58	23.1708	A	1.3

y = 0.0012 * x + 0.0895
R = 1.0000
DL = 3.657
BEC = 77.59

Weight: <None>
Min Conc: <None>

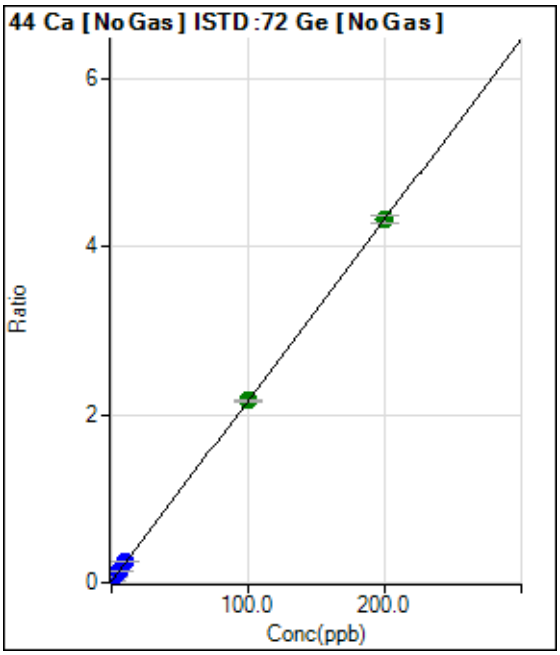


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0001	P	61.1
2	☐	200.000	208.390	603.36	0.0008	P	6.6
3	☐	500.000	485.412	1356.76	0.0018	P	3.9
4	☐	1000.000	995.093	2706.98	0.0036	P	7.6
5	☐	10000.00	9859.678	26282.14	0.0350	P	3.5
6	☐	20000.00	20070.68	52972.07	0.0712	P	2.1

y = 3.5430E-006 * x + 6.6229E-005
R = 1.0000
DL = 34.26
BEC = 18.69

Weight: <None>
Min Conc: <None>

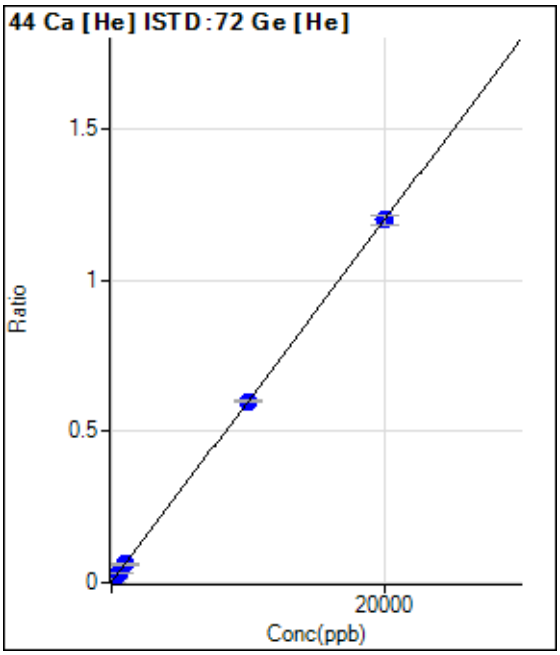
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	40011.90	0.0149	P	4.6
2	☐	2.000	2.107	160337.52	0.0603	P	1.4
3	☐	5.000	5.345	347996.01	0.1299	P	1.2
4	☐	10.000	10.706	652594.61	0.2453	P	2.0
5	☐	100.000	100.053	5744508.04	2.1676	A	1.1
6	☐	200.000	199.928	11291091.08	4.3165	A	2.2

y = 0.0215 * x + 0.0149
R = 1.0000
DL = 0.0967
BEC = 0.6938

Weight: <None>
Min Conc: <None>

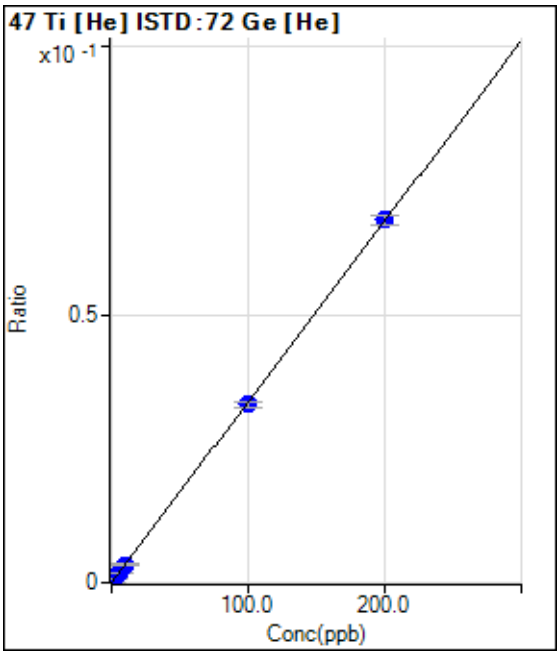


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	916.71	0.0012	P	5.2
2	☐	200.000	196.588	9733.58	0.0130	P	0.7
3	☐	500.000	481.181	22785.91	0.0300	P	3.7
4	☐	1000.000	998.158	45866.79	0.0609	P	2.3
5	☐	10000.00	9993.324	450020.42	0.5991	P	1.0
6	☐	20000.00	20003.93	891588.40	1.1980	P	2.8

y = 5.9829E-005 * x + 0.0012
R = 1.0000
DL = 3.152
BEC = 20.24

Weight: <None>
Min Conc: <None>

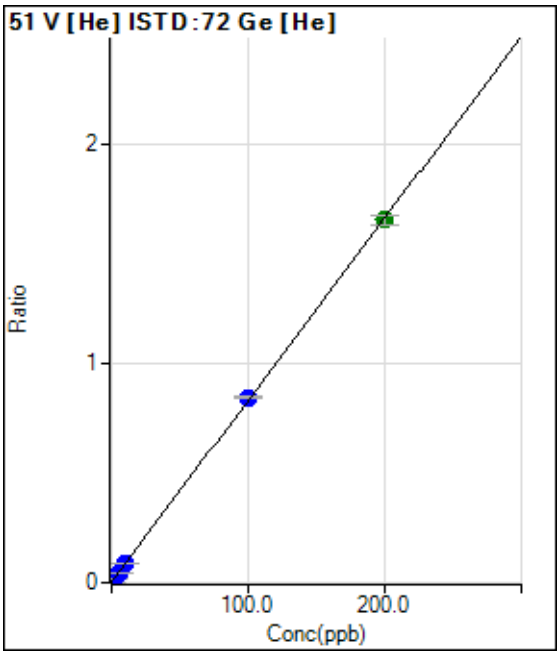
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	91.1
2	☐	2.000	2.110	550.02	0.0007	P	13.7
3	☐	5.000	5.168	1340.09	0.0018	P	9.4
4	☐	10.000	9.841	2513.61	0.0033	P	7.7
5	☐	100.000	98.423	24942.91	0.0332	P	3.0
6	☐	200.000	200.791	50412.61	0.0677	P	3.0

y = 3.3724E-004 * x + 2.1794E-005
R = 1.0000
DL = 0.1766
BEC = 0.06463

Weight: <None>
Min Conc: <None>

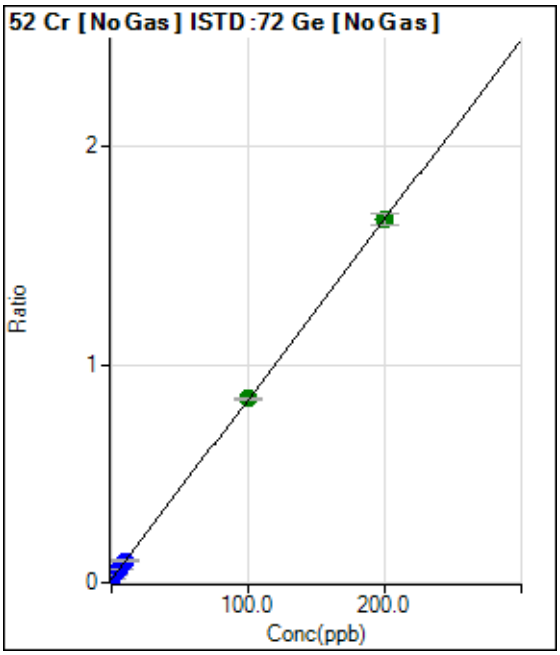


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2180.19	0.0029	P	3.3
2	☐	2.000	1.989	14541.08	0.0194	P	1.2
3	☐	5.000	4.978	33565.44	0.0442	P	2.3
4	☐	10.000	10.113	65339.37	0.0868	P	1.5
5	☐	100.000	101.551	635065.66	0.8455	P	1.1
6	☐	200.000	199.220	1232495.71	1.6559	A	2.7

y = 0.0083 * x + 0.0029
R = 1.0000
DL = 0.0348
BEC = 0.3472

Weight: <None>
Min Conc: <None>

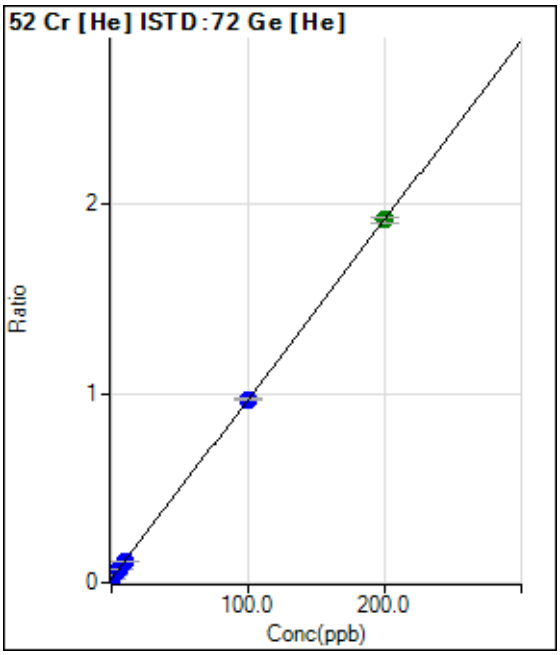
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	40537.06	0.0151	P	3.7
2	☐	2.000	2.050	85234.40	0.0320	P	1.7
3	☐	5.000	5.294	157481.47	0.0588	P	0.3
4	☐	10.000	10.414	268819.71	0.1010	P	2.5
5	☐	100.000	100.276	2232330.75	0.8424	A	1.3
6	☐	200.000	199.833	4351809.93	1.6637	A	3.1

y = 0.0082 * x + 0.0151
R = 1.0000
DL = 0.2012
BEC = 1.833

Weight: <None>
Min Conc: <None>

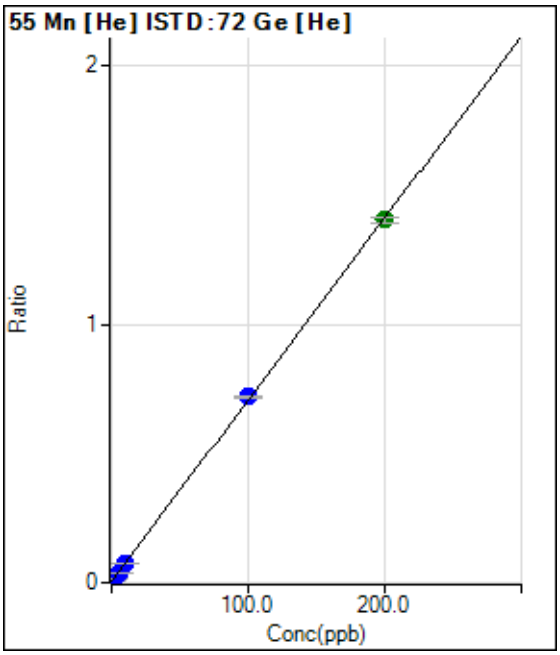


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15432.28	0.0204	P	0.9
2	☐	2.000	1.981	29388.37	0.0392	P	2.9
3	☐	5.000	5.124	52407.09	0.0690	P	2.7
4	☐	10.000	10.095	87438.53	0.1161	P	0.2
5	☐	100.000	100.051	728053.27	0.9693	P	1.2
6	☐	200.000	199.967	1426761.95	1.9169	A	1.5

y = 0.0095 * x + 0.0204
R = 1.0000
DL = 0.05912
BEC = 2.15

Weight: <None>
Min Conc: <None>

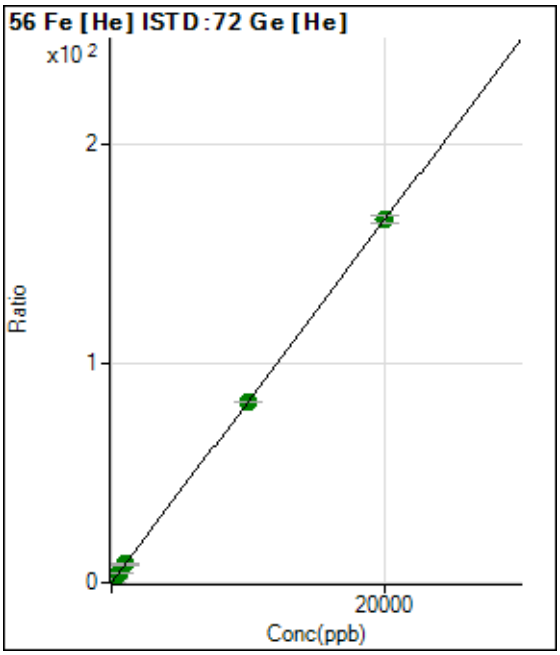
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3387.14	0.0045	P	1.8
2	☐	2.000	2.004	13927.30	0.0186	P	4.3
3	☐	5.000	5.035	30294.00	0.0399	P	1.2
4	☐	10.000	10.138	57015.71	0.0758	P	2.7
5	☐	100.000	101.730	540556.41	0.7197	P	1.3
6	☐	200.000	199.127	1045432.20	1.4044	A	1.7

y = 0.0070 * x + 0.0045
R = 0.9999
DL = 0.03355
BEC = 0.6364

Weight: <None>
Min Conc: <None>

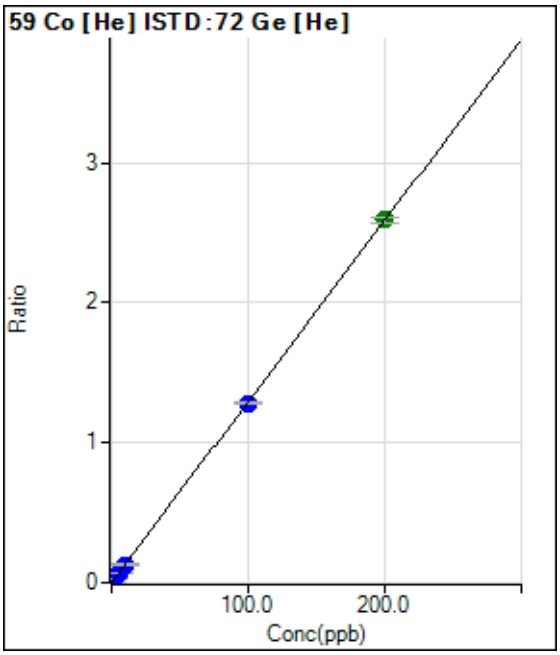


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19911.47	0.0263	P	3.2
2	☐	200.000	205.484	1292995.76	1.7232	A	0.4
3	☐	500.000	513.527	3241236.20	4.2671	A	3.2
4	☐	1000.000	1008.346	6287284.28	8.3533	A	2.6
5	☐	10000.00	9967.153	61845014.08	82.3361	A	0.8
6	☐	20000.00	20015.61	123034811.5	165.317	A	2.1

y = 0.0083 * x + 0.0263
R = 1.0000
DL = 0.3015
BEC = 3.187

Weight: <None>
Min Conc: <None>

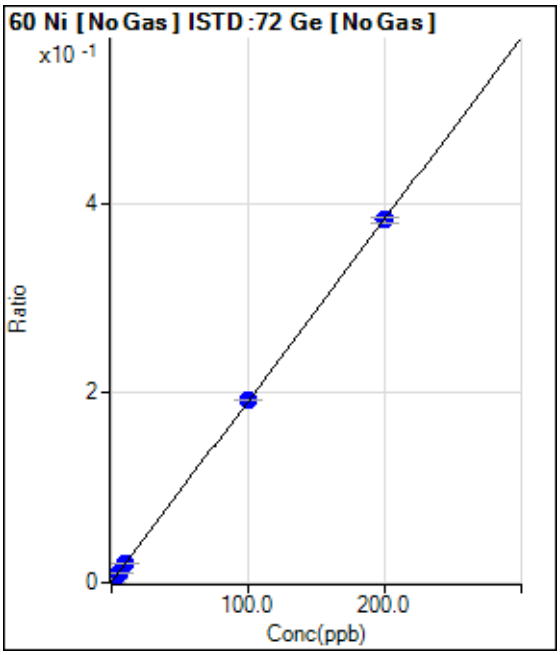
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	223.34	0.0003	P	3.4
2	☐	2.000	1.984	19470.82	0.0260	P	2.4
3	☐	5.000	4.978	49142.15	0.0647	P	1.6
4	☐	10.000	9.990	97486.83	0.1295	P	2.1
5	☐	100.000	99.091	962781.58	1.2819	P	1.5
6	☐	200.000	200.456	1929917.47	2.5928	A	1.2

y = 0.0129 * x + 2.9514E-004
R = 1.0000
DL = 0.002341
BEC = 0.02282

Weight: <None>
Min Conc: <None>

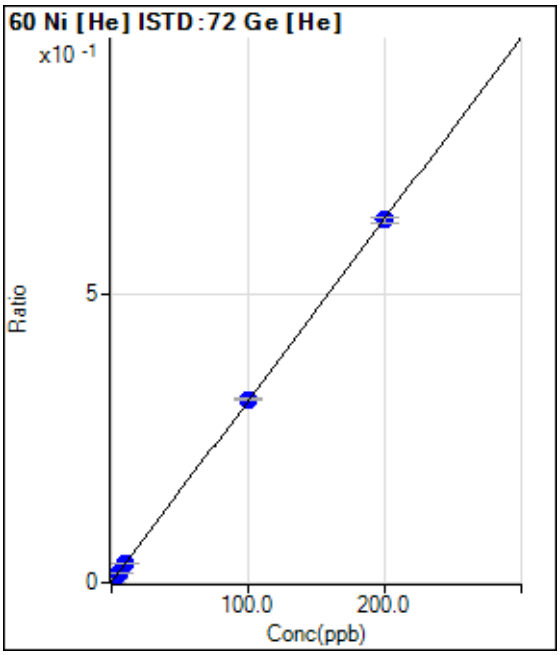


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	870.04	0.0003	P	6.0
2	☐	2.000	2.065	11378.28	0.0043	P	5.9
3	☐	5.000	5.138	27194.23	0.0102	P	3.0
4	☐	10.000	10.371	53665.55	0.0202	P	1.7
5	☐	100.000	100.503	510467.68	0.1926	P	0.6
6	☐	200.000	199.726	1000430.87	0.3825	P	1.8

y = 0.0019 * x + 3.2467E-004
R = 1.0000
DL = 0.03035
BEC = 0.1697

Weight: <None>
Min Conc: <None>

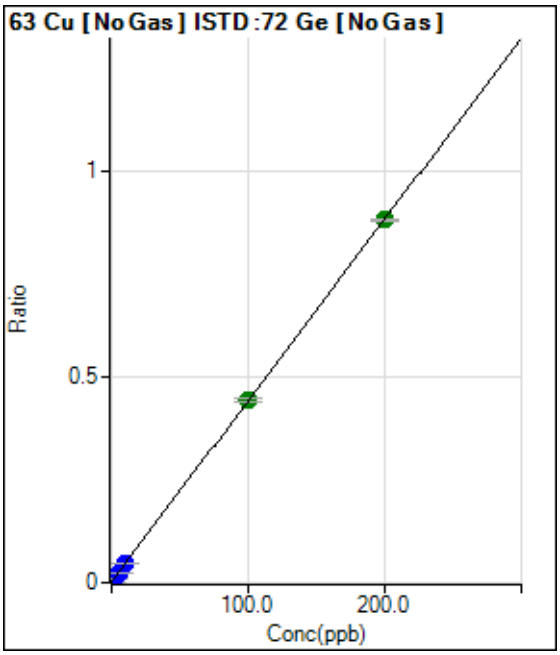
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	423.34	0.0006	P	7.1
2	☐	2.000	2.031	5214.42	0.0070	P	4.6
3	☐	5.000	5.125	12676.09	0.0167	P	3.2
4	☐	10.000	10.333	24889.68	0.0331	P	5.0
5	☐	100.000	100.816	238739.91	0.3178	P	0.7
6	☐	200.000	199.572	467900.29	0.6286	P	1.4

y = 0.0031 * x + 5.5962E-004
R = 1.0000
DL = 0.03777
BEC = 0.1778

Weight: <None>
Min Conc: <None>

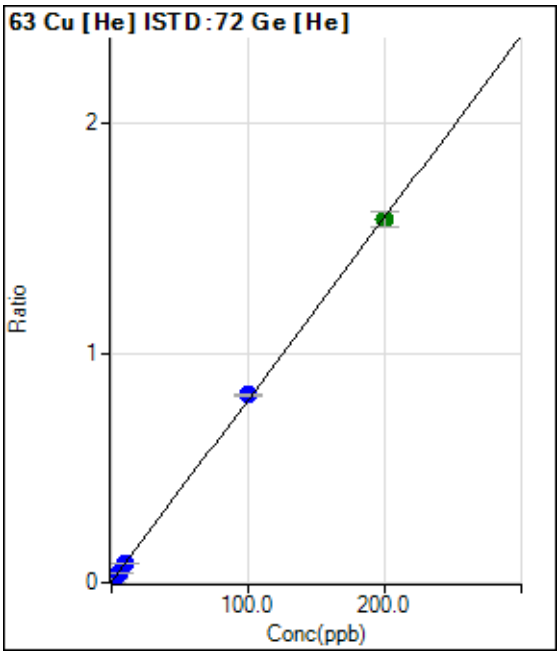


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5804.68	0.0022	P	0.7
2	☐	2.000	2.098	30330.71	0.0114	P	1.5
3	☐	5.000	5.300	68257.82	0.0255	P	0.7
4	☐	10.000	10.542	129209.39	0.0486	P	0.3
5	☐	100.000	100.370	1176262.95	0.4438	A	2.5
6	☐	200.000	199.779	2305239.08	0.8813	A	0.3

y = 0.0044 * x + 0.0022
R = 1.0000
DL = 0.01018
BEC = 0.4919

Weight: <None>
Min Conc: <None>

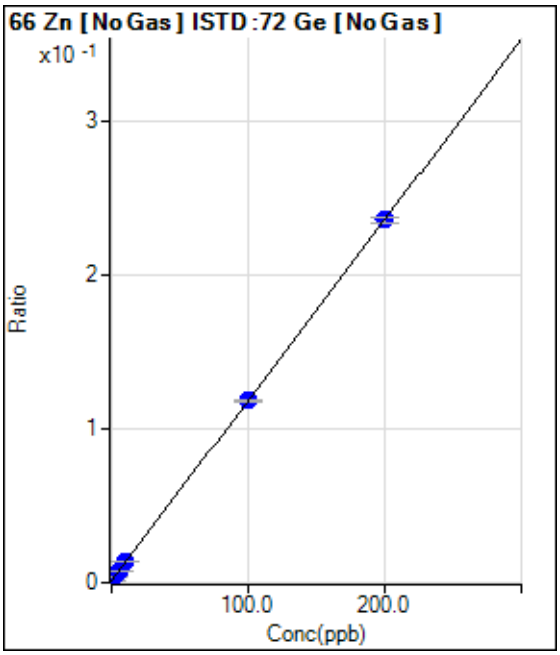
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2716.98	0.0036	P	4.3
2	☐	2.000	2.048	14888.44	0.0198	P	0.8
3	☐	5.000	5.212	34149.82	0.0450	P	3.2
4	☐	10.000	10.445	65115.69	0.0865	P	1.7
5	☐	100.000	102.507	613813.99	0.8172	P	1.2
6	☐	200.000	198.718	1176233.16	1.5809	A	4.2

y = 0.0079 * x + 0.0036
R = 0.9999
DL = 0.05859
BEC = 0.4523

Weight: <None>
Min Conc: <None>

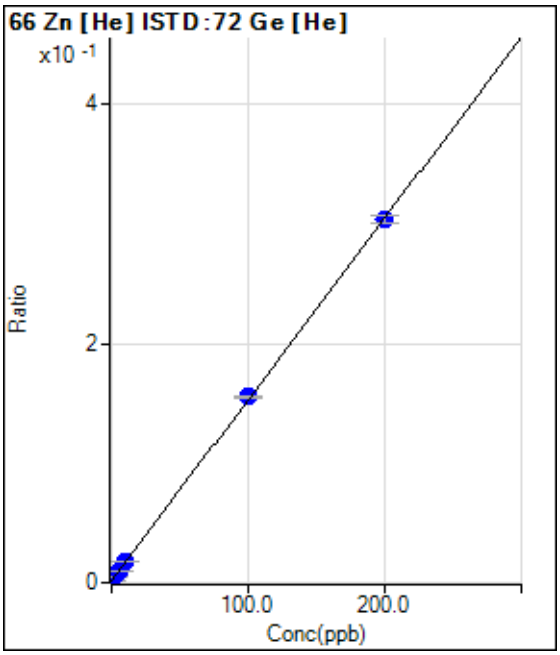


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3237.11	0.0012	P	1.3
2	☐	2.000	1.957	9330.02	0.0035	P	2.8
3	☐	5.000	5.080	19213.94	0.0072	P	0.0
4	☐	10.000	10.296	35393.23	0.0133	P	2.4
5	☐	100.000	99.961	314339.06	0.1186	P	1.2
6	☐	200.000	200.003	617623.09	0.2361	P	1.8

y = 0.0012 * x + 0.0012
R = 1.0000
DL = 0.0398
BEC = 1.028

Weight: <None>
Min Conc: <None>

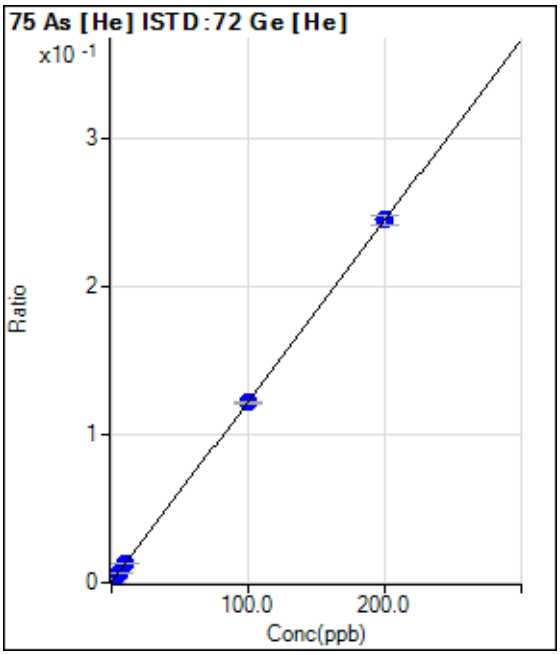
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1173.41	0.0015	P	11.1
2	☐	2.000	2.071	3513.86	0.0047	P	1.6
3	☐	5.000	5.362	7345.42	0.0097	P	2.8
4	☐	10.000	10.324	12926.36	0.0172	P	2.8
5	☐	100.000	101.499	116564.34	0.1552	P	0.7
6	☐	200.000	199.224	225573.26	0.3031	P	2.2

y = 0.0015 * x + 0.0015
R = 1.0000
DL = 0.3399
BEC = 1.023

Weight: <None>
Min Conc: <None>

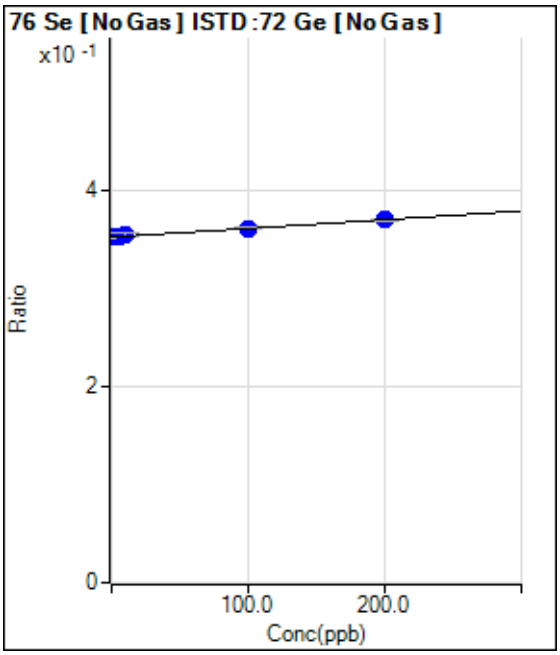


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	241.11	0.0003	P	12.8
2	☐	2.000	2.024	2093.51	0.0028	P	3.0
3	☐	5.000	4.953	4836.45	0.0064	P	6.3
4	☐	10.000	10.117	9537.86	0.0127	P	3.4
5	☐	100.000	99.290	91317.60	0.1216	P	0.4
6	☐	200.000	200.350	182312.12	0.2450	P	2.6

y = 0.0012 * x + 3.1813E-004
R = 1.0000
DL = 0.09981
BEC = 0.2605

Weight: <None>
Min Conc: <None>

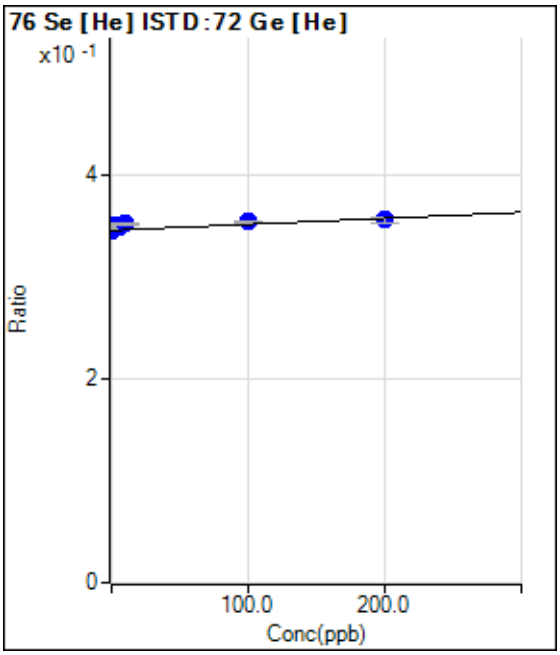
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	943245.27	0.3518	P	0.6
2	☐	2.000	3.325	936798.47	0.3521	P	1.2
3	☐	5.000	3.491	942974.31	0.3521	P	0.5
4	☐	10.000	26.892	942422.25	0.3542	P	1.2
5	☐	100.000	104.298	956783.55	0.3610	P	1.0
6	☐	200.000	197.031	965931.31	0.3693	P	0.8

y = 8.8872E-005 * x + 0.3518
R = 0.9963
DL = 69.11
BEC = 3958

Weight: <None>
Min Conc: <None>

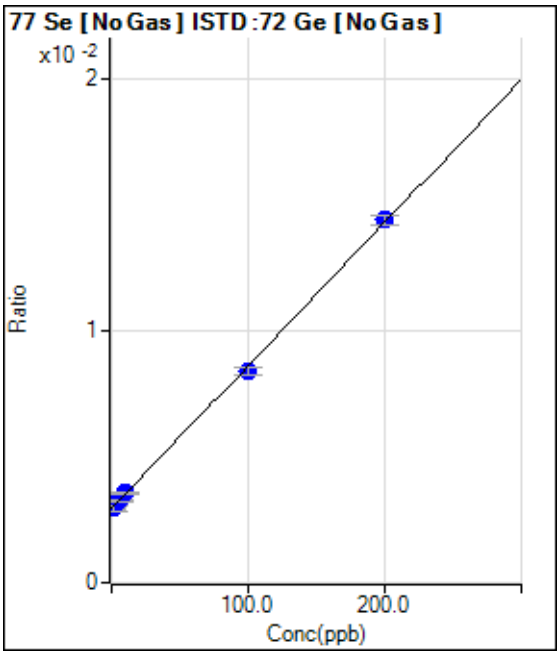


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	261798.99	0.3459	P	0.6
2	☐	2.000	72.951	262751.49	0.3502	P	0.3
3	☐	5.000	52.306	265165.55	0.3490	P	0.6
4	☐	10.000	113.858	265460.94	0.3526	P	0.7
5	☐	100.000	140.516	266046.13	0.3542	P	0.4
6	☐	200.000	172.657	265014.75	0.3561	P	1.9

y = 5.9084E-005 * x + 0.3459
R = 0.8161
DL = 102.1
BEC = 5854

Weight: <None>
Min Conc: <None>

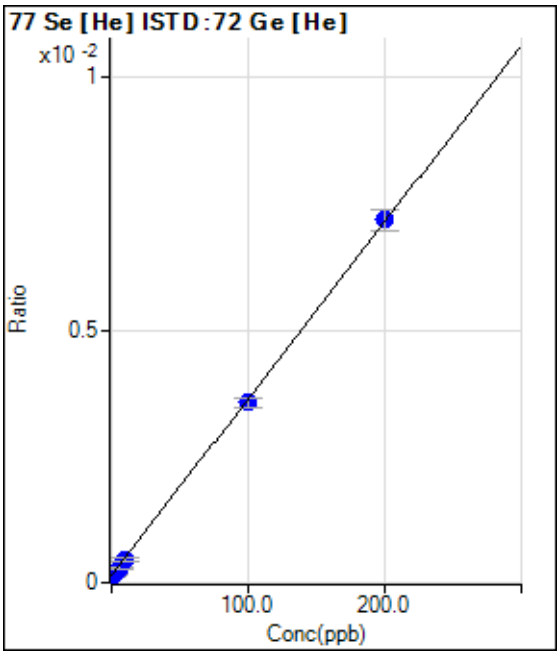
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7885.78	0.0029	P	2.9
2	☐	2.000	-0.010	7825.73	0.0029	P	6.4
3	☐	5.000	5.357	8692.96	0.0032	P	2.8
4	☐	10.000	10.737	9450.14	0.0036	P	3.5
5	☐	100.000	96.404	22305.37	0.0084	P	4.0
6	☐	200.000	201.772	37673.03	0.0144	P	2.6

y = 5.6802E-005 * x + 0.0029
R = 0.9997
DL = 4.468
BEC = 51.79

Weight: <None>
Min Conc: <None>

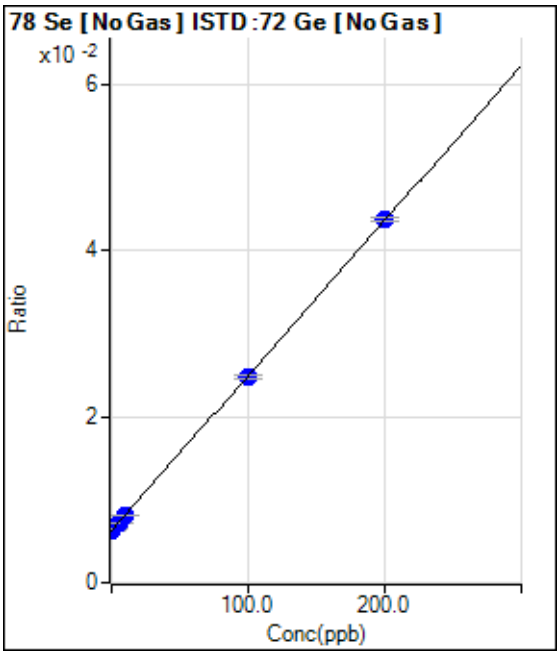


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	110.00	0.0001	P	30.9
2	☐	2.000	0.179	113.33	0.0002	P	20.3
3	☐	5.000	3.894	213.34	0.0003	P	14.5
4	☐	10.000	8.649	336.68	0.0004	P	16.3
5	☐	100.000	97.700	2673.65	0.0036	P	5.1
6	☐	200.000	201.263	5347.84	0.0072	P	6.0

y = 3.4945E-005 * x + 1.4478E-004
R = 0.9999
DL = 3.836
BEC = 4.143

Weight: <None>
Min Conc: <None>

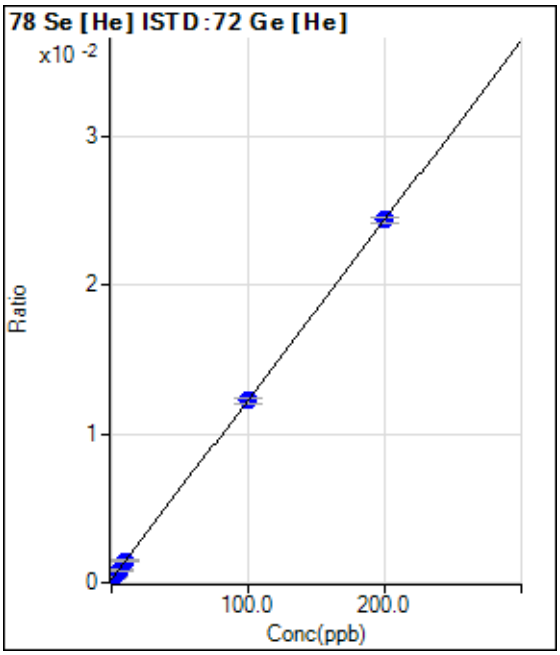
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16890.86	0.0063	P	0.7
2	☐	2.000	1.863	17688.55	0.0066	P	2.3
3	☐	5.000	4.968	19357.54	0.0072	P	1.8
4	☐	10.000	9.899	21684.40	0.0081	P	1.8
5	☐	100.000	99.269	65861.13	0.0248	P	2.5
6	☐	200.000	200.373	114413.13	0.0437	P	1.2

y = 1.8686E-004 * x + 0.0063
R = 1.0000
DL = 0.6958
BEC = 33.71

Weight: <None>
Min Conc: <None>

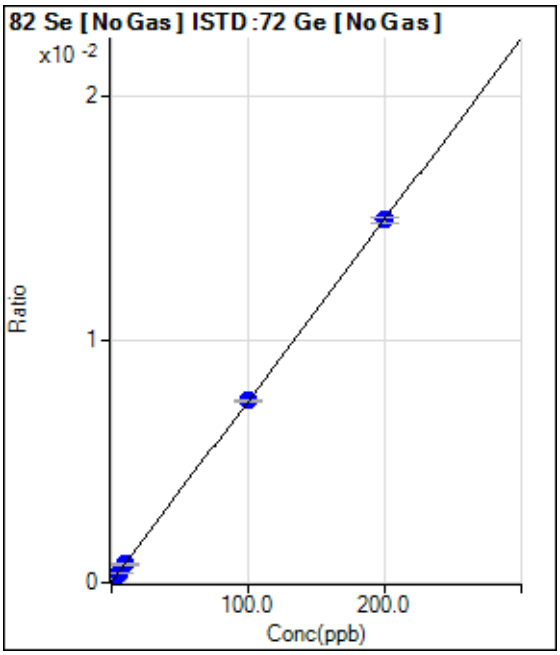


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	171.33	0.0002	P	8.7
2	☐	2.000	1.798	332.67	0.0004	P	4.4
3	☐	5.000	5.076	638.02	0.0008	P	1.9
4	☐	10.000	10.091	1087.38	0.0014	P	10.4
5	☐	100.000	99.689	9219.84	0.0123	P	3.1
6	☐	200.000	200.151	18178.93	0.0244	P	1.4

y = 1.2088E-004 * x + 2.2618E-004
R = 1.0000
DL = 0.4857
BEC = 1.871

Weight: <None>
Min Conc: <None>

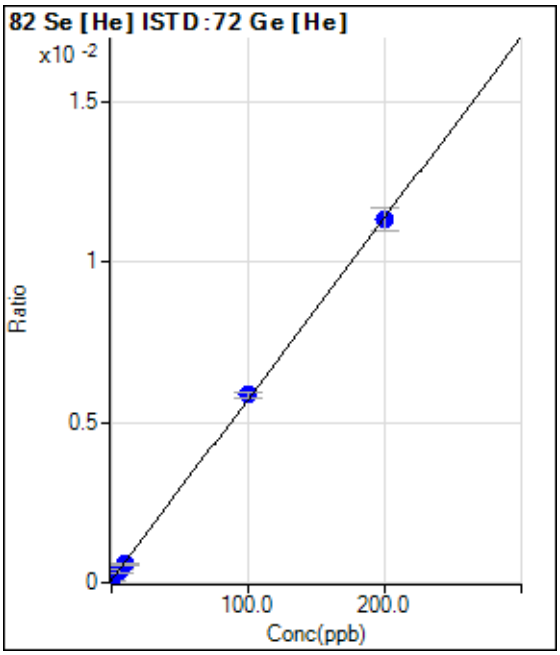
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64.66	0.0000	P	224.5
2	☐	2.000	2.185	498.01	0.0002	P	9.8
3	☐	5.000	5.227	1108.08	0.0004	P	9.9
4	☐	10.000	10.089	2064.53	0.0008	P	10.4
5	☐	100.000	100.181	19853.17	0.0075	P	1.5
6	☐	200.000	199.897	39035.79	0.0149	P	1.6

y = 7.4533E-005 * x + 2.4290E-005
R = 1.0000
DL = 2.195
BEC = 0.3259

Weight: <None>
Min Conc: <None>

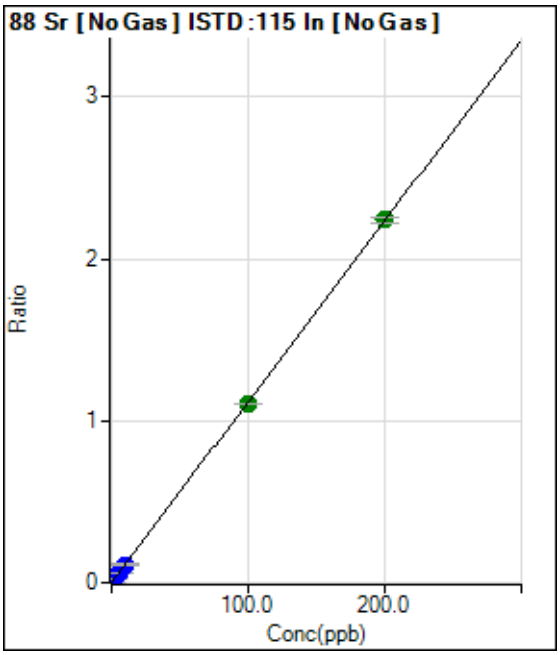


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	60.00	0.0001	P	14.9
2	☐	2.000	3.168	193.34	0.0003	P	11.9
3	☐	5.000	4.828	266.68	0.0004	P	23.0
4	☐	10.000	8.732	430.02	0.0006	P	11.2
5	☐	100.000	102.308	4397.49	0.0059	P	2.6
6	☐	200.000	198.902	8412.77	0.0113	P	6.5

y = 5.6434E-005 * x + 7.9124E-005
R = 0.9999
DL = 0.6258
BEC = 1.402

Weight: <None>
Min Conc: <None>

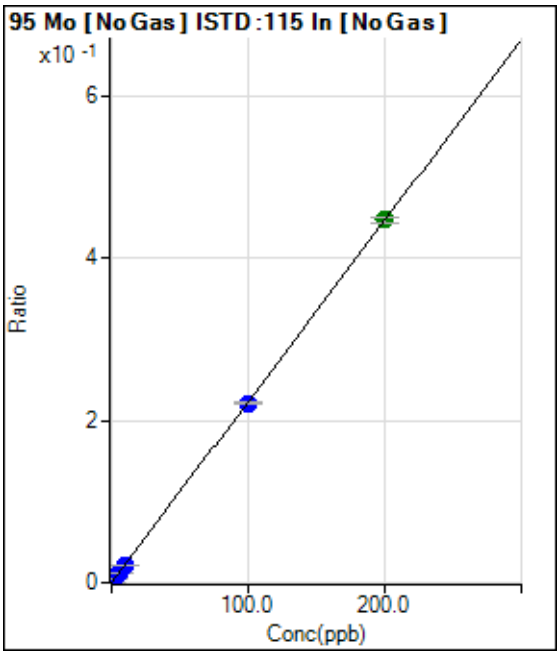
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1163.40	0.0004	P	4.4
2	☐	2.000	1.977	71262.94	0.0224	P	2.0
3	☐	5.000	5.172	181002.84	0.0581	P	1.8
4	☐	10.000	10.059	355359.21	0.1127	P	1.8
5	☐	100.000	98.636	3410805.05	1.1019	A	0.3
6	☐	200.000	200.675	6767907.19	2.2414	A	1.6

y = 0.0112 * x + 3.7369E-004
R = 1.0000
DL = 0.004456
BEC = 0.03346

Weight: <None>
Min Conc: <None>

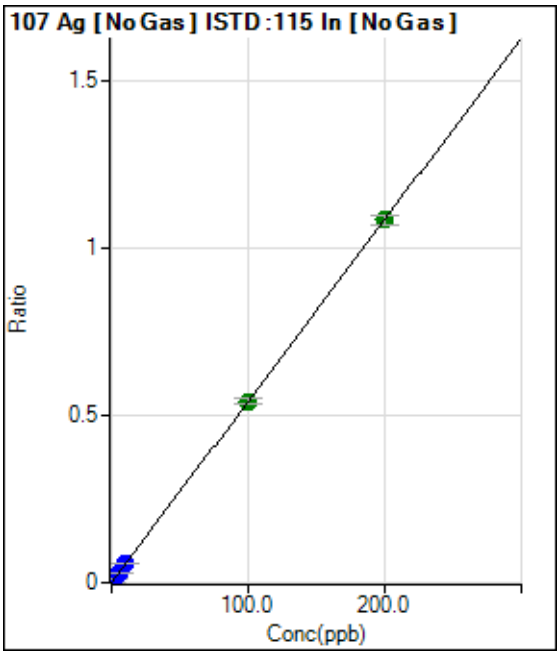


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	140.00	0.0000	P	27.3
2	☐	2.000	1.886	13513.76	0.0043	P	1.3
3	☐	5.000	4.905	34240.96	0.0110	P	1.8
4	☐	10.000	9.662	68170.89	0.0216	P	3.4
5	☐	100.000	99.172	685572.33	0.2215	P	0.9
6	☐	200.000	200.434	1351449.20	0.4476	A	1.7

y = 0.0022 * x + 4.4812E-005
R = 1.0000
DL = 0.01643
BEC = 0.02007

Weight: <None>
Min Conc: <None>

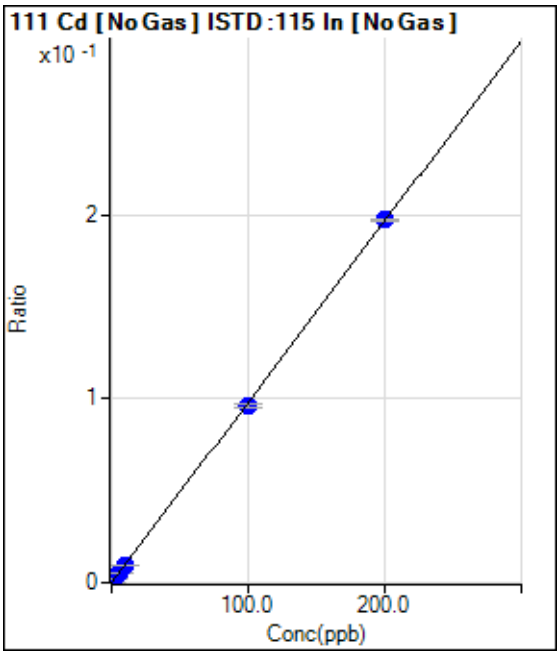
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	153.33	0.0000	P	21.4
2	☐	2.000	2.008	34682.41	0.0109	P	0.9
3	☐	5.000	5.206	87948.32	0.0282	P	1.0
4	☐	10.000	10.239	175047.77	0.0555	P	2.2
5	☐	100.000	99.937	1675399.14	0.5414	A	3.1
6	☐	200.000	200.014	3271468.81	1.0834	A	2.5

y = 0.0054 * x + 4.9323E-005
R = 1.0000
DL = 0.005852
BEC = 0.009106

Weight: <None>
Min Conc: <None>

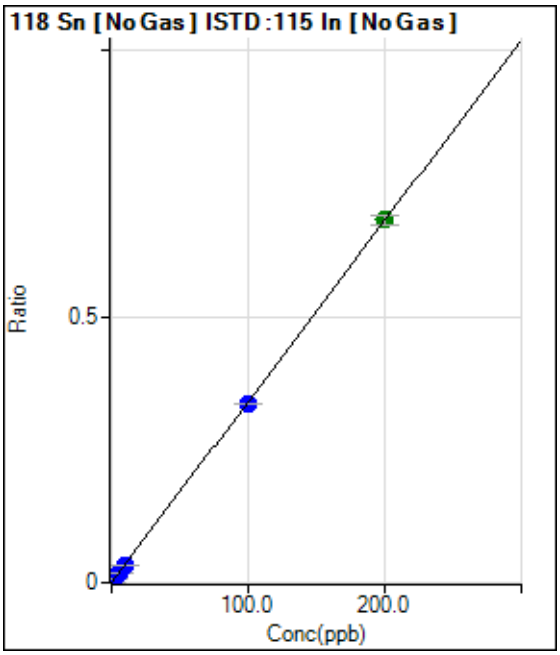


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-4.55	0.0000	P	-131.0
2	☐	2.000	1.921	5982.41	0.0019	P	9.2
3	☐	5.000	5.069	15487.84	0.0050	P	3.6
4	☐	10.000	9.861	30527.66	0.0097	P	1.1
5	☐	100.000	98.295	298703.61	0.0965	P	2.2
6	☐	200.000	200.858	595463.66	0.1972	P	0.7

y = 9.8186E-004 * x - 1.4398E-006
R = 0.9999
DL = 0.005763
BEC = -0.001466

Weight: <None>
Min Conc: <None>

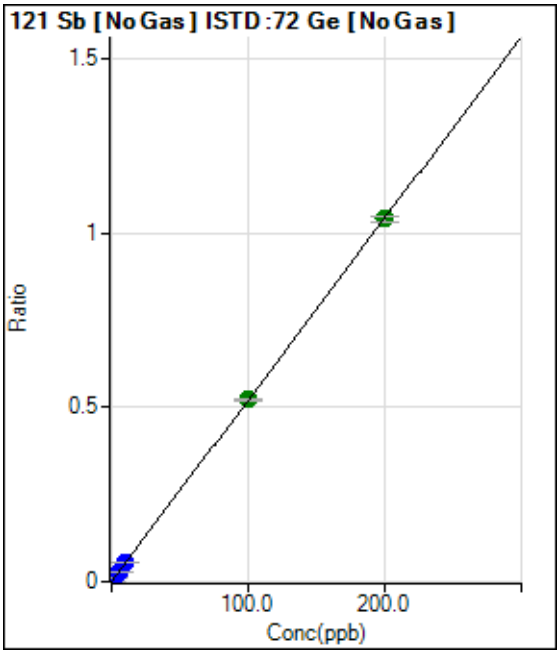
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1513.45	0.0005	P	3.2
2	☐	2.000	1.872	21721.56	0.0068	P	4.1
3	☐	5.000	4.887	53201.08	0.0171	P	3.2
4	☐	10.000	9.785	106348.57	0.0337	P	2.2
5	☐	100.000	98.805	1040513.06	0.3362	P	0.8
6	☐	200.000	200.613	2059398.62	0.6820	A	2.5

y = 0.0034 * x + 4.8575E-004
R = 1.0000
DL = 0.01359
BEC = 0.143

Weight: <None>
Min Conc: <None>

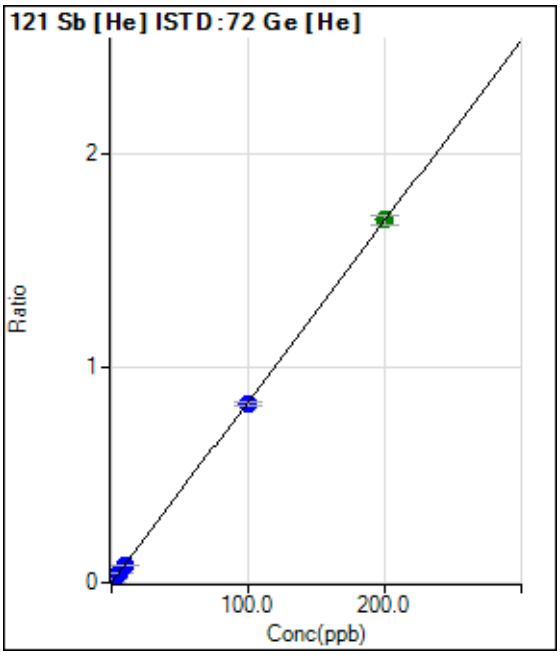


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	463.35	0.0002	P	23.9
2	☐	2.000	2.031	28574.90	0.0107	P	0.3
3	☐	5.000	5.109	71648.44	0.0268	P	1.2
4	☐	10.000	10.233	142093.97	0.0534	P	2.6
5	☐	100.000	100.335	1383797.95	0.5221	A	0.6
6	☐	200.000	199.818	2719607.25	1.0397	A	1.7

y = 0.0052 * x + 1.7291E-004
R = 1.0000
DL = 0.02383
BEC = 0.03324

Weight: <None>
Min Conc: <None>

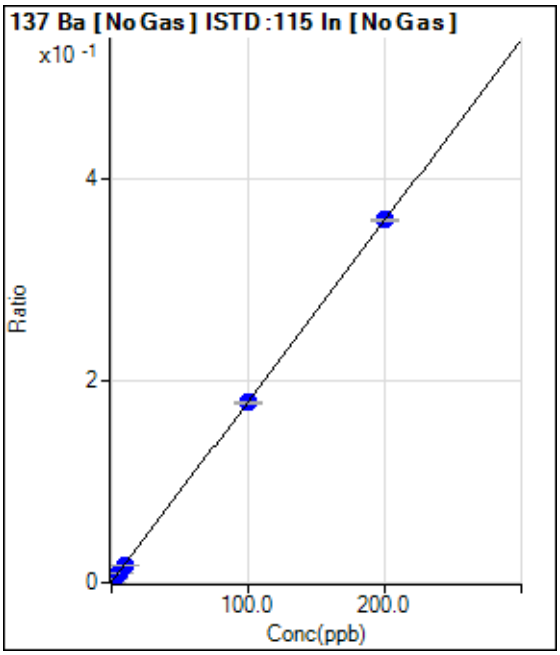
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	206.67	0.0003	P	26.0
2	☐	2.000	1.994	12799.74	0.0171	P	2.0
3	☐	5.000	4.990	32126.36	0.0423	P	1.0
4	☐	10.000	9.835	62522.30	0.0831	P	2.4
5	☐	100.000	98.740	624436.80	0.8314	P	2.6
6	☐	200.000	200.639	1257119.85	1.6892	A	2.5

y = 0.0084 * x + 2.7386E-004
R = 1.0000
DL = 0.02542
BEC = 0.03253

Weight: <None>
Min Conc: <None>

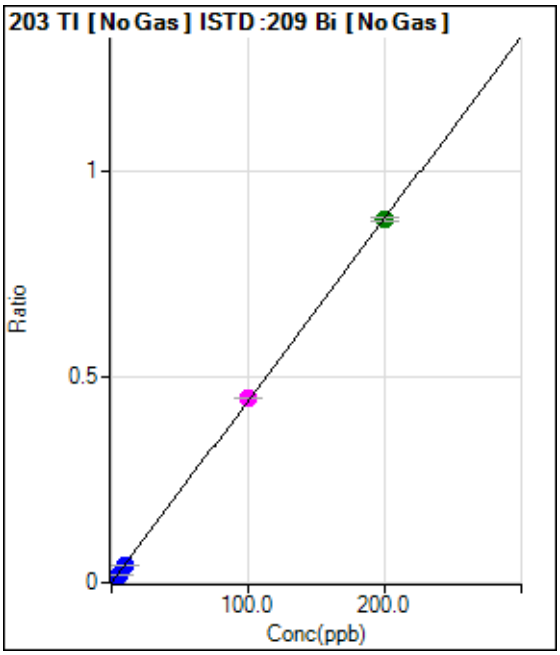


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1546.79	0.0005	P	0.2
2	☐	2.000	1.725	11401.89	0.0036	P	0.7
3	☐	5.000	4.871	28755.59	0.0092	P	3.0
4	☐	10.000	9.567	55679.50	0.0177	P	1.6
5	☐	100.000	99.274	552712.76	0.1786	P	1.6
6	☐	200.000	200.391	1086852.98	0.3600	P	0.8

y = 0.0018 * x + 4.9652E-004
R = 1.0000
DL = 0.00205
BEC = 0.2768

Weight: <None>
Min Conc: <None>

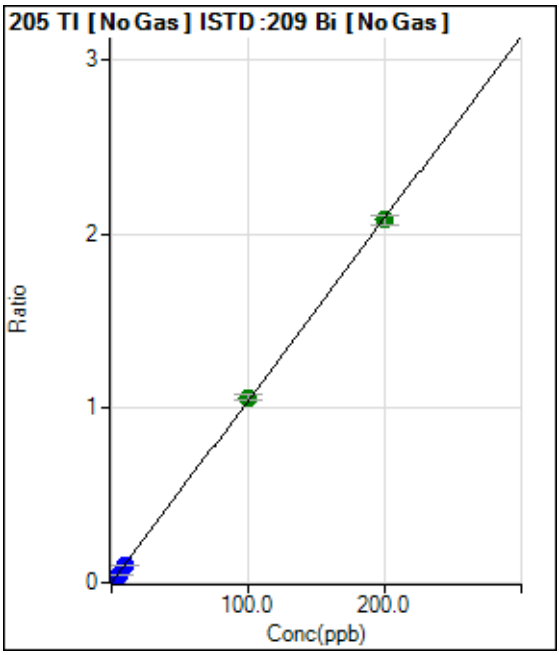
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	160.00	0.0001	P	18.9
2	☐	2.000	1.877	20967.92	0.0084	P	2.4
3	☐	5.000	4.536	51429.63	0.0201	P	3.9
4	☐	10.000	9.170	103819.48	0.0406	P	1.6
5	☐	100.000	101.420	1132126.34	0.4488	M	0.9
6	☐	200.000	199.344	2184462.78	0.8821	A	0.9

y = 0.0044 * x + 6.2685E-005
R = 1.0000
DL = 0.008024
BEC = 0.01417

Weight: <None>
Min Conc: <None>

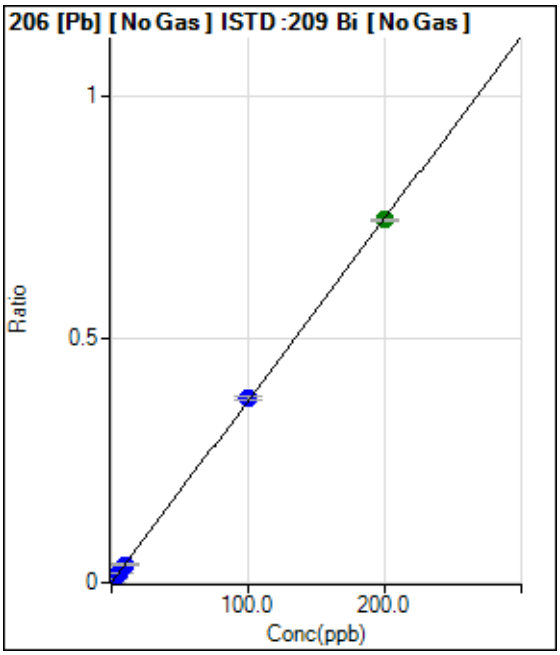


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	283.34	0.0001	P	18.0
2	☐	2.000	1.887	49632.51	0.0198	P	3.1
3	☐	5.000	4.660	124561.20	0.0488	P	2.0
4	☐	10.000	9.318	248772.89	0.0974	P	0.9
5	☐	100.000	101.732	2678350.11	1.0620	A	3.5
6	☐	200.000	199.178	5148943.26	2.0791	A	2.4

y = 0.0104 * x + 1.1087E-004
R = 0.9999
DL = 0.005729
BEC = 0.01062

Weight: <None>
Min Conc: <None>

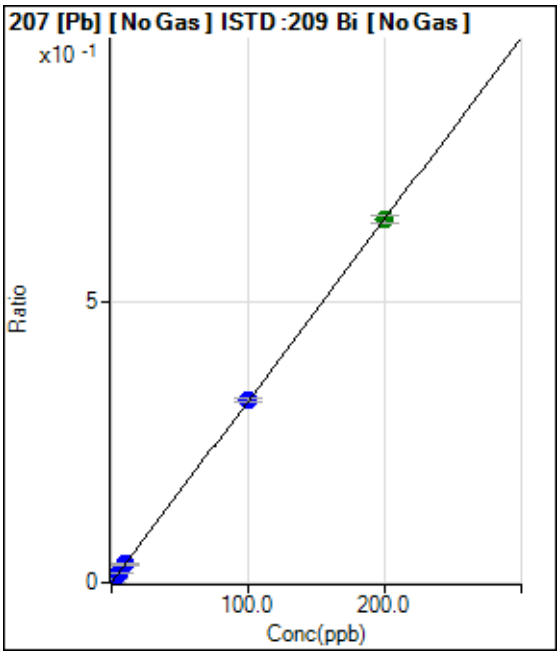
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	276.68	0.0001	P	8.7
2	☐	2.000	2.007	19054.77	0.0076	P	2.5
3	☐	5.000	5.094	48896.26	0.0191	P	1.0
4	☐	10.000	9.953	95255.62	0.0373	P	2.0
5	☐	100.000	101.372	955353.24	0.3788	P	2.6
6	☐	200.000	199.314	1844074.30	0.7446	A	0.5

y = 0.0037 * x + 1.0821E-004
R = 1.0000
DL = 0.007552
BEC = 0.02897

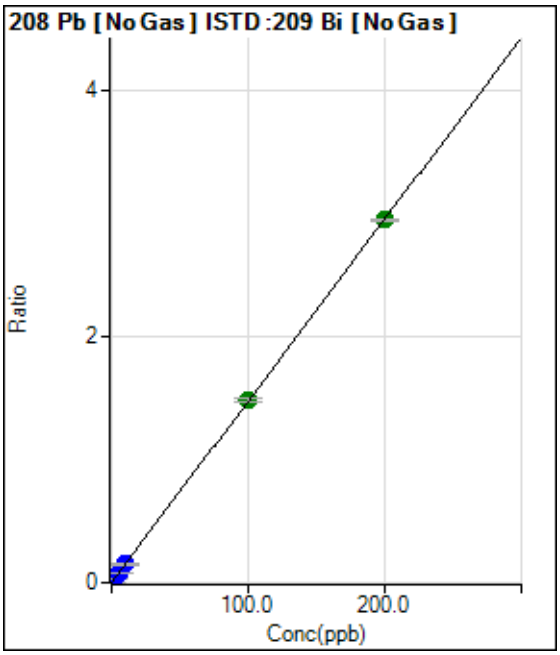
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	210.01	0.0001	P	27.2
2	☐	2.000	1.988	16297.64	0.0065	P	4.5
3	☐	5.000	5.061	41967.86	0.0164	P	3.9
4	☐	10.000	10.045	83065.93	0.0325	P	2.8
5	☐	100.000	100.677	820141.50	0.3252	P	2.0
6	☐	200.000	199.658	1596715.81	0.6448	A	2.0

y = 0.0032 * x + 8.1643E-005
R = 1.0000
DL = 0.02062
BEC = 0.02528

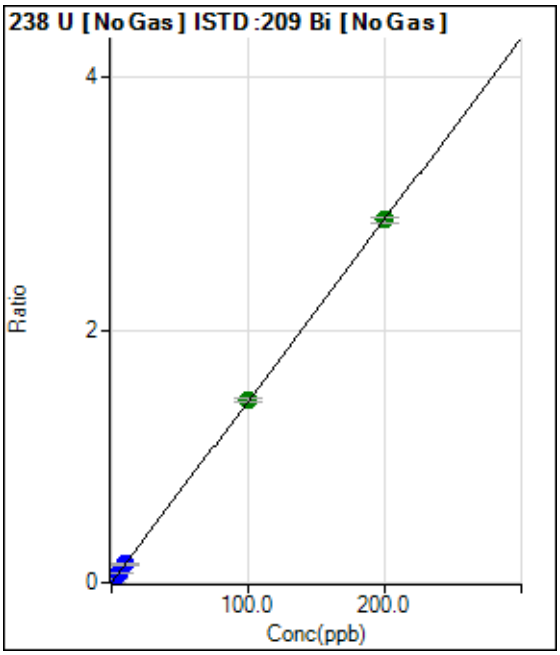
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1096.71	0.0004	P	12.3
2	☐	2.000	2.026	75825.11	0.0303	P	1.1
3	☐	5.000	5.121	193750.62	0.0758	P	1.5
4	☐	10.000	10.119	381752.32	0.1494	P	2.0
5	☐	100.000	100.418	3730727.16	1.4791	A	1.8
6	☐	200.000	199.782	7286272.97	2.9422	A	0.7

y = 0.0147 * x + 4.2749E-004
R = 1.0000
DL = 0.01072
BEC = 0.02903

Weight: <None>
Min Conc: <None>

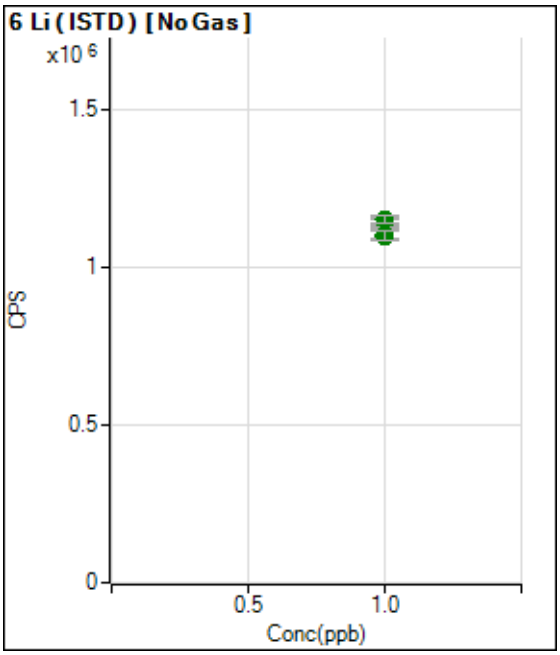


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0000	P	19.5
2	☐	2.000	2.011	72474.04	0.0289	P	0.5
3	☐	5.000	5.065	186112.24	0.0728	P	1.7
4	☐	10.000	10.085	370503.80	0.1450	P	1.8
5	☐	100.000	100.282	3637394.01	1.4421	A	2.0
6	☐	200.000	199.853	7117424.90	2.8740	A	1.3

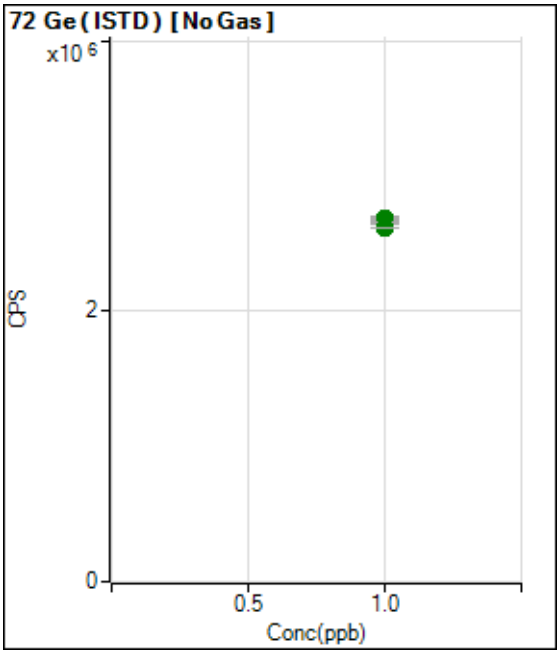
y = 0.0144 * x + 1.0377E-005
R = 1.0000
DL = 0.0004223
BEC = 0.0007216

Weight: <None>
Min Conc: <None>

Calibration for 023_ICV.d

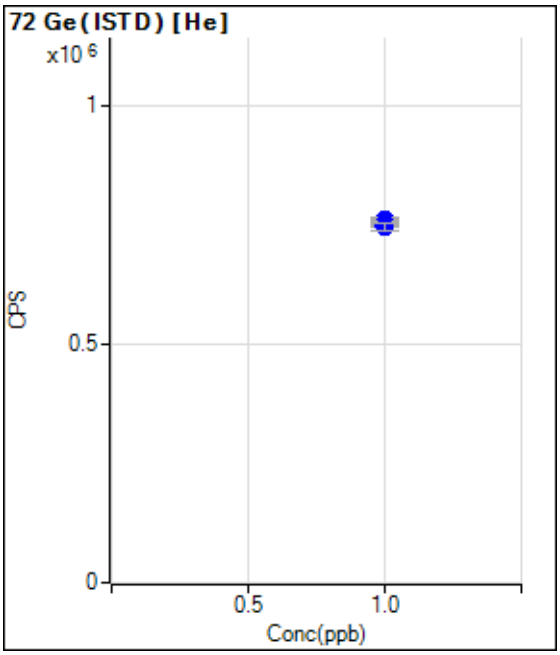


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1128563.62		A	1.5
2	☐	1.000		1142982.71		A	1.3
3	☐	1.000		1143317.26		A	2.3
4	☐	1.000		1150744.25		A	2.0
5	☐	1.000		1105397.12		A	1.9
6	☐	1.000		1100392.77		A	2.7

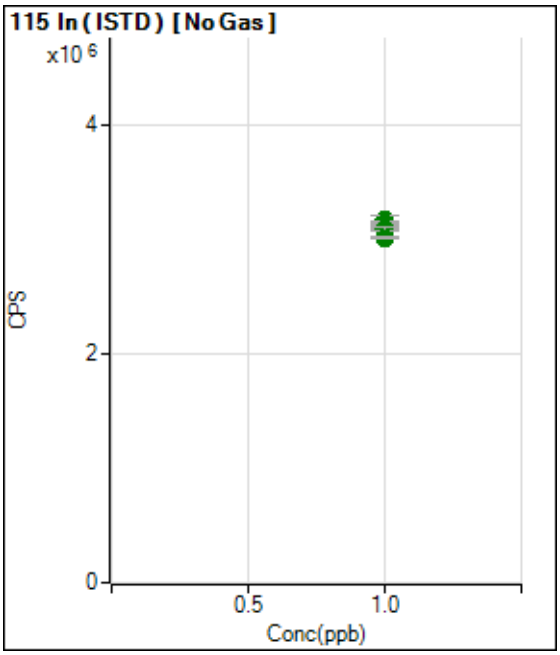


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2681639.65		A	1.8
2	☐	1.000		2661020.79		A	0.4
3	☐	1.000		2678438.08		A	0.9
4	☐	1.000		2661232.25		A	1.3
5	☐	1.000		2650268.30		A	0.7
6	☐	1.000		2615755.74		A	0.2

Calibration for 023_ICV.d

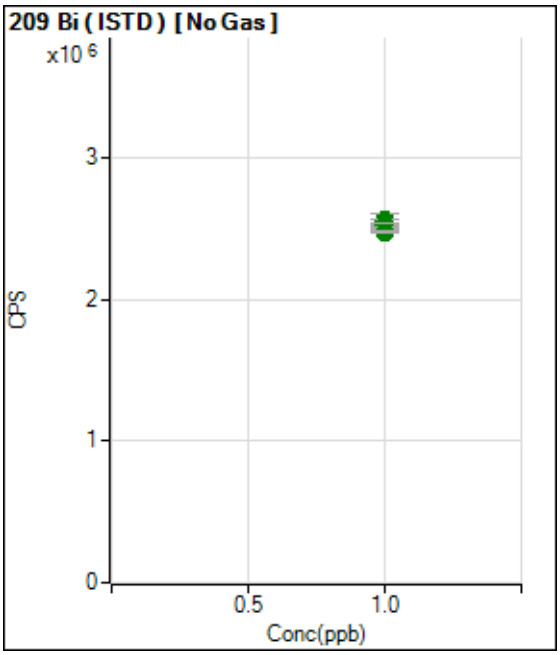


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		756956.55		P	1.8
2	☐	1.000		750338.74		P	1.3
3	☐	1.000		759875.09		P	1.8
4	☐	1.000		752924.26		P	2.0
5	☐	1.000		751187.54		P	1.4
6	☐	1.000		744454.91		P	2.1



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3115345.43		A	2.3
2	☐	1.000		3174986.79		A	2.0
3	☐	1.000		3113425.55		A	1.2
4	☐	1.000		3153331.38		A	0.6
5	☐	1.000		3095421.73		A	1.3
6	☐	1.000		3019454.31		A	0.5

Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2561633.29		A	3.2
2	☐	1.000		2505755.43		A	1.1
3	☐	1.000		2555057.56		A	1.0
4	☐	1.000		2554855.06		A	0.8
5	☐	1.000		2522594.44		A	1.0
6	☐	1.000		2476457.62		A	0.3

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	016CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T10:34:58-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	68713	0.00
Be	9	1	No Gas	7	1718.47
V	51	2	He	2180	0.14
Cr	52	2	He	15432	0.01
Fe	56	2	He	19911	0.01
Se	78	2	He	171	5.87
As	75	2	He	241	5.97
Ca	44	2	He	917	0.59
Na	23	2	He	48474	0.00
Mg	24	2	He	483	2.51
K	39	2	He	67756	0.00
Mn	55	2	He	3387	0.10
Co	59	2	He	223	1.16
Ni	60	2	He	423	1.40
Cu	63	2	He	2717	0.15
Zn	66	2	He	1173	1.06
Al	27	2	He	933	2.11
B	11	1	No Gas	7169	0.03
Al	27	1	No Gas	28757	0.01
Si	28	1	No Gas	317248	0.00
Ag	107	1	No Gas	153	12.99
Sr	88	1	No Gas	1163	0.19
Mo	95	1	No Gas	140	20.41
Sn	118	1	No Gas	1513	0.28
Sb	121	1	No Gas	463	5.13
Ba	137	1	No Gas	1547	0.13
Tl	205	1	No Gas	283	5.62
Tl	203	1	No Gas	160	10.34
Pb	208	1	No Gas	1097	1.29
U	238	1	No Gas	27	81.19
Ca	43	2	He	50	120.00
Sb	121	2	He	207	11.79
Ti	47	2	He	17	549.91
Cu	63	1	No Gas	5805	0.04

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	1	No Gas	1128564	1.51

Calibration Blank Report

Ge	72	2	He	756957	1.84
Ge	72	1	No Gas	2681640	1.78
In	115	1	No Gas	3115345	2.26
Bi	209	1	No Gas	2561633	3.25

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	017CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T10:36:56-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	016CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	6637	0.05
V	51	2	He	14541	0.00
Cr	52	2	He	29388	0.01
Fe	56	2	He	1292996	0.00
Se	78	2	He	333	1.00
As	75	2	He	2094	0.19
Ca	44	2	He	9734	0.01
Na	23	2	He	283466	0.00
Mg	24	2	He	138677	0.00
K	39	2	He	246690	0.00
Mn	55	2	He	13927	0.03
Co	59	2	He	19471	0.01
Ni	60	2	He	5214	0.07
Cu	63	2	He	14888	0.00
Zn	66	2	He	3514	0.07
Al	27	2	He	1603	0.21
B	11	1	No Gas	26804	0.01
Al	27	1	No Gas	58346	0.00
Si	28	1	No Gas	404870	0.00
Ag	107	1	No Gas	34682	0.00
Cd	111	1	No Gas	5982	0.15
Sr	88	1	No Gas	71263	0.00
Mo	95	1	No Gas	13514	0.01
Sn	118	1	No Gas	21722	0.01
Sb	121	1	No Gas	28575	0.00
Ba	137	1	No Gas	11402	0.02
Tl	205	1	No Gas	49633	0.01
Tl	203	1	No Gas	20968	0.01
Pb	208	1	No Gas	75825	0.00
U	238	1	No Gas	72474	0.00
Ca	43	2	He	603	0.88
Sb	121	2	He	12800	0.01
Cu	63	1	No Gas	30331	0.01

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1142983	1.29	1128564	101.28	70	120	
Ge	72	2	He	750339	1.26	756957	99.13	70	120	
Ge	72	1	No Gas	2661021	0.41	2681640	99.23	70	120	

Calibration Standard Report

In	115	1	No Gas	3174987	1.97	3115345	101.91	70	120	
Bi	209	1	No Gas	2505755	1.11	2561633	97.82	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	018CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T10:38:54-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	016CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	17110	0.00
V	51	2	He	33565	0.00
Cr	52	2	He	52407	0.00
Fe	56	2	He	3241236	0.00
Se	78	2	He	638	0.05
As	75	2	He	4836	0.13
Ca	44	2	He	22786	0.01
Na	23	2	He	646715	0.00
Mg	24	2	He	354527	0.00
K	39	2	He	527009	0.00
Mn	55	2	He	30294	0.00
Co	59	2	He	49142	0.00
Ni	60	2	He	12676	0.02
Cu	63	2	He	34150	0.00
Zn	66	2	He	7345	0.06
Al	27	2	He	2684	0.13
B	11	1	No Gas	57310	0.00
Al	27	1	No Gas	107442	0.00
Si	28	1	No Gas	545442	0.00
Ag	107	1	No Gas	87948	0.00
Cd	111	1	No Gas	15488	0.02
Sr	88	1	No Gas	181003	0.00
Mo	95	1	No Gas	34241	0.01
Sn	118	1	No Gas	53201	0.01
Sb	121	1	No Gas	71648	0.00
Ba	137	1	No Gas	28756	0.01
Tl	205	1	No Gas	124561	0.00
Tl	203	1	No Gas	51430	0.01
Pb	208	1	No Gas	193751	0.00
U	238	1	No Gas	186112	0.00
Ca	43	2	He	1357	0.23
Sb	121	2	He	32126	0.01
Cu	63	1	No Gas	68258	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1143317	2.30	1128564	101.31	70	120	
Ge	72	2	He	759875	1.80	756957	100.39	70	120	
Ge	72	1	No Gas	2678438	0.88	2681640	99.88	70	120	

Calibration Standard Report

In	115	1	No Gas	3113426	1.25	3115345	99.94	70	120	
Bi	209	1	No Gas	2555058	0.98	2561633	99.74	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	019CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T10:40:52-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	016CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	34009	0.00
V	51	2	He	65339	0.00
Cr	52	2	He	87439	0.00
Fe	56	2	He	6287284	0.00
Se	78	2	He	1087	0.80
As	75	2	He	9538	0.02
Ca	44	2	He	45867	0.00
Na	23	2	He	1209992	0.00
Mg	24	2	He	697138	0.00
K	39	2	He	956218	0.00
Mn	55	2	He	57016	0.00
Co	59	2	He	97487	0.00
Ni	60	2	He	24890	0.01
Cu	63	2	He	65116	0.00
Zn	66	2	He	12926	0.01
Al	27	2	He	4734	0.12
B	11	1	No Gas	107498	0.00
Al	27	1	No Gas	185919	0.00
Si	28	1	No Gas	731629	0.00
Ag	107	1	No Gas	175048	0.00
Cd	111	1	No Gas	30528	0.00
Sr	88	1	No Gas	355359	0.00
Mo	95	1	No Gas	68171	0.00
Sn	118	1	No Gas	106349	0.00
Sb	121	1	No Gas	142094	0.00
Ba	137	1	No Gas	55680	0.00
Tl	205	1	No Gas	248773	0.00
Tl	203	1	No Gas	103819	0.00
Pb	208	1	No Gas	381752	0.00
U	238	1	No Gas	370504	0.00
Ca	43	2	He	2707	0.35
Sb	121	2	He	62522	0.00
Cu	63	1	No Gas	129209	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1150744	2.04	1128564	101.97	70	120	
Ge	72	2	He	752924	2.01	756957	99.47	70	120	
Ge	72	1	No Gas	2661232	1.28	2681640	99.24	70	120	

Calibration Standard Report

In	115	1	No Gas	3153331	0.58	3115345	101.22	70	120	
Bi	209	1	No Gas	2554855	0.80	2561633	99.74	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	020CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T10:42:49-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	016CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	340018	0.00
V	51	2	He	635066	0.00
Cr	52	2	He	728053	0.00
Fe	56	2	He	61845014	0.00
Se	78	2	He	9220	0.02
As	75	2	He	91318	0.00
Ca	44	2	He	450020	0.00
Na	23	2	He	11136663	0.00
Mg	24	2	He	6479893	0.00
K	39	2	He	8725910	0.00
Mn	55	2	He	540556	0.00
Co	59	2	He	962782	0.00
Ni	60	2	He	238740	0.00
Cu	63	2	He	613814	0.00
Zn	66	2	He	116564	0.00
Al	27	2	He	41776	0.00
B	11	1	No Gas	970852	0.00
Al	27	1	No Gas	1565040	0.00
Si	28	1	No Gas	4112109	0.00
Ag	107	1	No Gas	1675399	0.00
Cd	111	1	No Gas	298704	0.00
Sr	88	1	No Gas	3410805	0.00
Mo	95	1	No Gas	685572	0.00
Sn	118	1	No Gas	1040513	0.00
Sb	121	1	No Gas	1383798	0.00
Ba	137	1	No Gas	552713	0.00
Tl	205	1	No Gas	2678350	0.00
Tl	203	1	No Gas	1132126	0.00
Pb	208	1	No Gas	3730727	0.00
U	238	1	No Gas	3637394	0.00
Ca	43	2	He	26282	0.01
Sb	121	2	He	624437	0.00
Cu	63	1	No Gas	1176263	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1105397	1.93	1128564	97.95	70	120	
Ge	72	2	He	751188	1.41	756957	99.24	70	120	
Ge	72	1	No Gas	2650268	0.66	2681640	98.83	70	120	

Calibration Standard Report

In	115	1	No Gas	3095422	1.35	3115345	99.36	70	120	
Bi	209	1	No Gas	2522594	0.98	2561633	98.48	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	021CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T10:44:42-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	016CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	665113	0.00
V	51	2	He	1232496	0.00
Cr	52	2	He	1426762	0.00
Fe	56	2	He	123034812	0.00
Se	78	2	He	18179	0.01
As	75	2	He	182312	0.00
Ca	44	2	He	891588	0.00
Na	23	2	He	22225622	0.00
Mg	24	2	He	12812463	0.00
K	39	2	He	17246956	0.00
Mn	55	2	He	1045432	0.00
Co	59	2	He	1929917	0.00
Ni	60	2	He	467900	0.00
Cu	63	2	He	1176233	0.00
Zn	66	2	He	225573	0.00
Al	27	2	He	80979	0.00
B	11	1	No Gas	1932585	0.00
Al	27	1	No Gas	3045011	0.00
Si	28	1	No Gas	7660509	0.00
Ag	107	1	No Gas	3271469	0.00
Cd	111	1	No Gas	595464	0.00
Sr	88	1	No Gas	6767907	0.00
Mo	95	1	No Gas	1351449	0.00
Sn	118	1	No Gas	2059399	0.00
Sb	121	1	No Gas	2719607	0.00
Ba	137	1	No Gas	1086853	0.00
Tl	205	1	No Gas	5148943	0.00
Tl	203	1	No Gas	2184463	0.00
Pb	208	1	No Gas	7286273	0.00
U	238	1	No Gas	7117425	0.00
Ca	43	2	He	52972	0.00
Sb	121	2	He	1257120	0.00
Cu	63	1	No Gas	2305239	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1100393	2.67	1128564	97.50	70	120	
Ge	72	2	He	744455	2.10	756957	98.35	70	120	
Ge	72	1	No Gas	2615756	0.21	2681640	97.54	70	120	

Calibration Standard Report

In	115	1	No Gas	3019454	0.46	3115345	96.92	70	120	
Bi	209	1	No Gas	2476458	0.31	2561633	96.67	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	023_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T10:48:39-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	016CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	100.937	3.771	1467669	1.60	100	100.9	90	110	
Be	9	1	No Gas	101.498	2.559	350281	0.22	100	101.5	90	110	
V	51	2	He	103.198	1.443	658032	0.73	100	103.2	90	110	
Cr	52	2	He	100.257	1.660	743859	0.68	100	100.3	90	110	
Fe	56	2	He	9758.676	1.506	61741276	0.60	10000	97.6	90	110	
Se	78	2	He	101.684	1.812	9587	0.32	100	101.7	90	110	
As	75	2	He	105.965	2.816	99333	0.72	100	106.0	90	110	
Ca	44	2	He	9990.584	2.483	458650	0.44	10000	99.9	90	110	
Na	23	2	He	9860.350	2.832	11279413	0.80	10000	98.6	90	110	
Mg	24	2	He	9984.500	3.183	6585640	1.14	10000	99.8	90	110	
K	39	2	He	10088.506	1.807	8983841	0.33	10000	100.9	90	110	
Mn	55	2	He	102.346	2.164	554463	0.12	100	102.3	90	110	
Co	59	2	He	101.436	1.350	1005003	0.78	100	101.4	90	110	
Ni	60	2	He	103.742	2.199	250456	0.58	100	103.7	90	110	
Cu	63	2	He	105.537	1.593	644315	0.97	100	105.5	90	110	
Zn	66	2	He	103.792	2.737	121491	1.17	100	103.8	90	110	
Al	27	2	He	102.206	4.141	43111	2.31	100	102.2	90	110	
B	11	1	No Gas	486.210	2.831	974649	1.26	500	97.2	90	110	
Al	27	1	No Gas	102.955	1.942	1619203	2.45	100	103.0	90	110	
Si	28	1	No Gas	505.803	2.047	4135848	0.68	500	101.2	90	110	
Ag	107	1	No Gas	96.436	1.842	1623908	0.50	100	96.4	90	110	
Cd	111	1	No Gas	101.307	2.049	309194	0.69	100	101.3	90	110	
Sr	88	1	No Gas	102.380	1.462	3555318	0.17	100	102.4	90	110	
Mo	95	1	No Gas	98.497	2.588	683783	1.29	100	98.5	90	110	
Sn	118	1	No Gas	100.888	1.195	1067020	0.22	100	100.9	90	110	
Sb	121	1	No Gas	104.015	2.263	1448079	1.17	100	104.0	90	110	
Ba	137	1	No Gas	102.961	0.526	575733	0.98	100	103.0	90	110	
Tl	205	1	No Gas	109.292	2.011	2812780	0.62	100	109.3	90	110	
Tl	203	1	No Gas	109.052	1.877	1189784	0.52	100	109.1	90	110	
Pb	208	1	No Gas	104.725	1.860	3803179	1.35	100	104.7	90	110	
U	238	1	No Gas	104.798	1.991	3715486	0.59	100	104.8	90	110	
Ca	43	2	He	10028.305	4.129	27254	2.38	10000	100.3	90	110	
Sb	121	2	He	102.390	2.097	660266	0.23	100	102.4	90	110	
Ti	47	2	He	101.507	2.304	26232	0.60	100	101.5	90	110	
Cu	63	1	No Gas	104.276	3.419	1233282	2.44	100	104.3	90	110	
Se	82	1	No Gas	103.383	2.665	20681	2.60	100	103.4	90	110	

QC ISTD Table

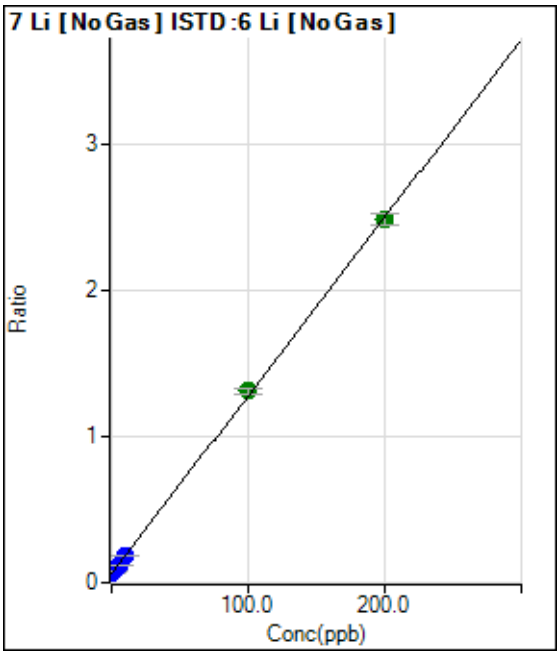
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1137793	2.32	1128564	100.82	70	120	
Ge	72	2	He	766046	2.11	756957	101.20	70	120	
Ge	72	1	No Gas	2675740	1.30	2681640	99.78	70	120	
In	115	1	No Gas	3109093	1.40	3115345	99.80	70	120	
Bi	209	1	No Gas	2465875	1.43	2561633	96.26	70	120	

Calibration for 023_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\032923A.b\
Analysis File: 032923A.batch.bin
DA Date-Time: 3/29/2023 10:42:06 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	016CALB.d	CAL BLK	3/29/2023 10:34:58 AM
2	017CALS.d	2/10/200	3/29/2023 10:36:56 AM
3	018CALS.d	5/25/500	3/29/2023 10:38:54 AM
4	019CALS.d	10/50/100	3/29/2023 10:40:52 AM
5	020CALS.d	100/500/10K	3/29/2023 10:42:49 AM
6	021CALS.d	200/1000/20K	3/29/2023 10:44:42 AM

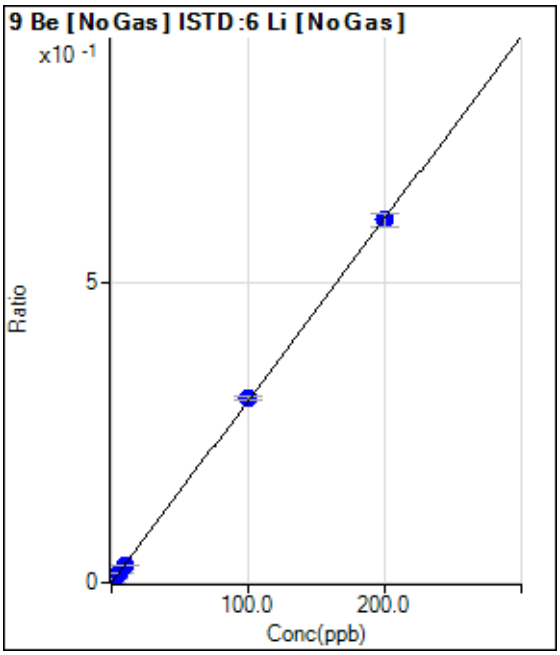
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	68713.26	0.0609	P	0.8
2	☐	2.000	1.998	97405.64	0.0852	P	1.4
3	☐	5.000	5.140	141159.13	0.1235	P	2.0
4	☐	10.000	10.335	214904.33	0.1868	P	1.9
5	☐	100.000	102.462	1446667.06	1.3092	A	3.0
6	☐	200.000	198.749	2730391.52	2.4822	A	3.3

y = 0.0122 * x + 0.0609
R = 0.9999
DL = 0.1199
BEC = 4.997

Weight: <None>
Min Conc: <None>

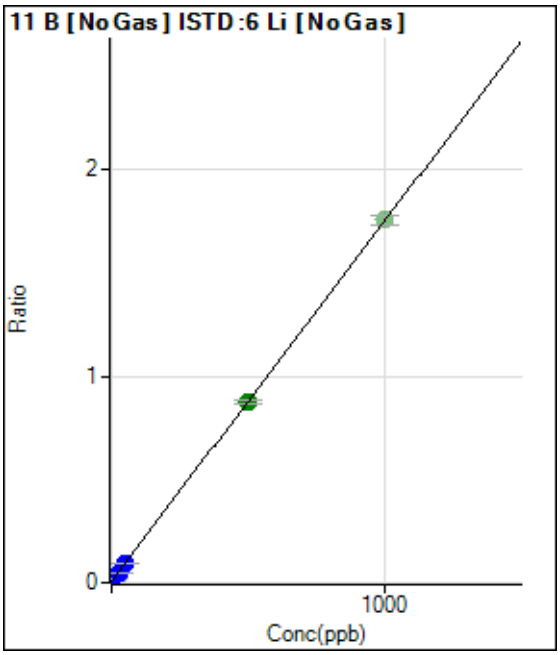


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	114.1
2	☐	2.000	1.912	6636.60	0.0058	P	3.5
3	☐	5.000	4.932	17110.48	0.0150	P	2.8
4	☐	10.000	9.739	34009.32	0.0296	P	1.3
5	☐	100.000	101.403	340017.80	0.3077	P	2.5
6	☐	200.000	199.314	665113.38	0.6048	P	3.5

y = 0.0030 * x + 5.9368E-006
R = 1.0000
DL = 0.006698
BEC = 0.001957

Weight: <None>
Min Conc: <None>

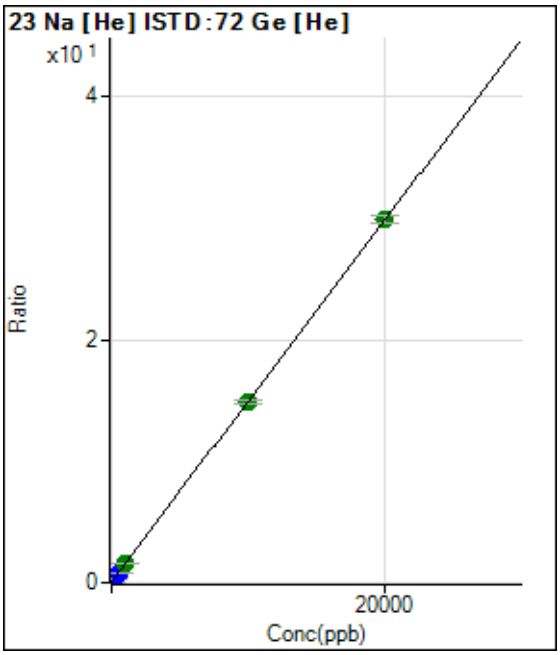
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7168.54	0.0064	P	3.3
2	☐	10.000	9.805	26804.08	0.0235	P	2.8
3	☐	25.000	25.105	57309.74	0.0501	P	2.8
4	☐	50.000	49.930	107497.99	0.0934	P	2.7
5	☐	500.000	500.006	970852.14	0.8785	A	2.3
6	☑	1000.000		1932584.71	1.7571	A	2.9

y = 0.0017 * x + 0.0064
R = 1.0000
DL = 0.3587
BEC = 3.643

Weight: <None>
Min Conc: <None>

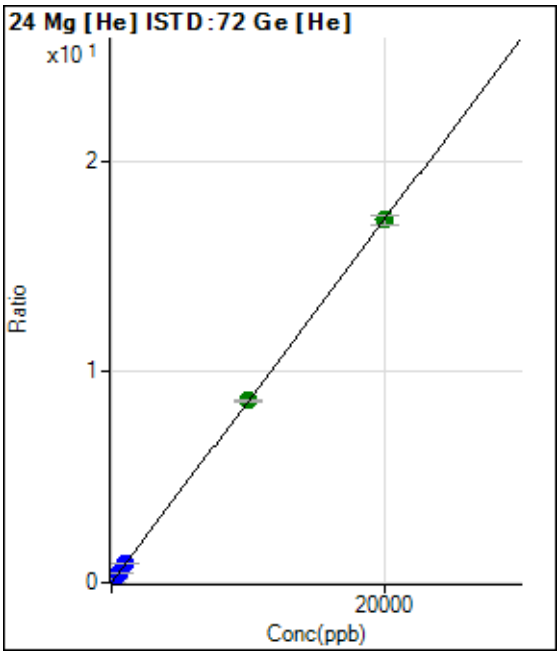


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	48474.38	0.0641	P	2.7
2	☐	200.000	210.951	283466.29	0.3778	P	2.1
3	☐	500.000	529.274	646715.29	0.8513	P	2.0
4	☐	1000.000	1037.541	1209991.88	1.6073	A	1.3
5	☐	10000.00	9926.489	11136663.17	14.8284	A	2.4
6	☐	20000.00	20034.03	22225622.17	29.8620	A	2.0

y = 0.0015 * x + 0.0641
R = 1.0000
DL = 3.451
BEC = 43.07

Weight: <None>
Min Conc: <None>

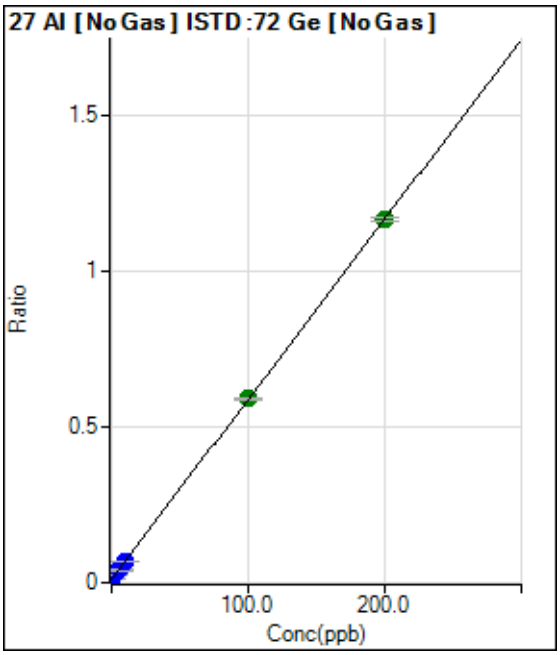
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	483.35	0.0006	P	12.8
2	☐	200.000	213.841	138677.49	0.1848	P	1.1
3	☐	500.000	541.017	354527.08	0.4666	P	1.9
4	☐	1000.000	1074.432	697138.32	0.9261	P	1.9
5	☐	10000.00	10015.39	6479892.61	8.6274	A	1.5
6	☐	20000.00	19987.41	12812462.73	17.2167	A	2.6

y = 8.6135E-004 * x + 6.3901E-004
R = 1.0000
DL = 0.2856
BEC = 0.7419

Weight: <None>
Min Conc: <None>

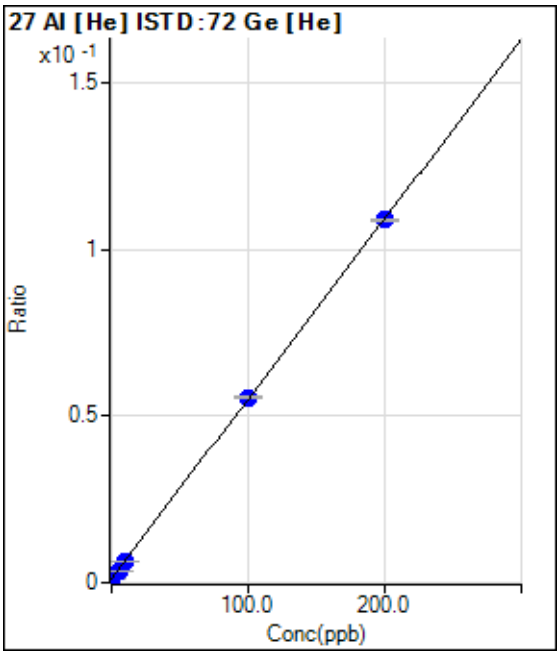


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28756.75	0.0107	P	2.5
2	☐	2.000	1.940	58345.64	0.0219	P	0.4
3	☐	5.000	5.091	107442.46	0.0401	P	1.1
4	☐	10.000	10.245	185919.31	0.0699	P	1.6
5	☐	100.000	100.423	1565039.98	0.5905	A	1.4
6	☐	200.000	199.775	3045011.31	1.1641	A	1.2

y = 0.0058 * x + 0.0107
R = 1.0000
DL = 0.1398
BEC = 1.858

Weight: <None>
Min Conc: <None>

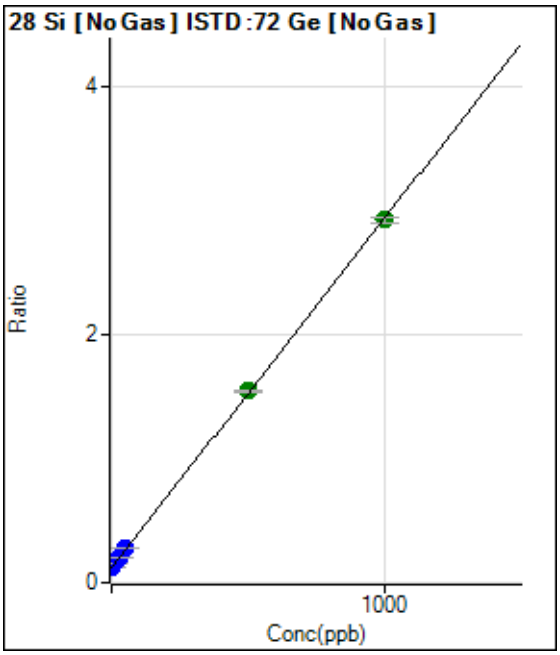
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	933.47	0.0012	P	21.3
2	☐	2.000	1.671	1603.46	0.0021	P	2.3
3	☐	5.000	4.262	2683.64	0.0035	P	3.7
4	☐	10.000	9.370	4734.22	0.0063	P	3.7
5	☐	100.000	100.938	41776.26	0.0556	P	1.8
6	☐	200.000	199.584	80978.78	0.1088	P	0.6

y = 5.3882E-004 * x + 0.0012
R = 1.0000
DL = 1.468
BEC = 2.294

Weight: <None>
Min Conc: <None>

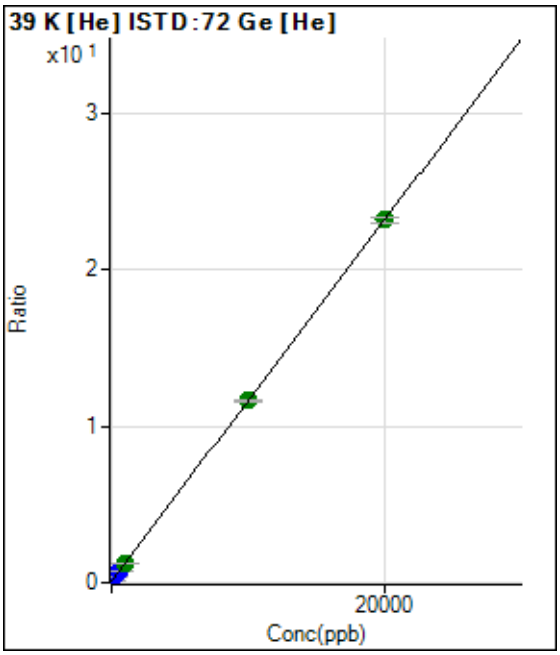


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	317248.29	0.1183	P	1.5
2	☐	10.000	11.983	404870.24	0.1521	P	1.6
3	☐	25.000	30.217	545441.88	0.2036	P	4.6
4	☐	50.000	55.495	731628.89	0.2750	P	1.7
5	☐	500.000	507.828	4112108.90	1.5516	A	1.0
6	☐	1000.000	995.661	7660509.47	2.9285	A	1.8

y = 0.0028 * x + 0.1183
R = 1.0000
DL = 1.884
BEC = 41.92

Weight: <None>
Min Conc: <None>

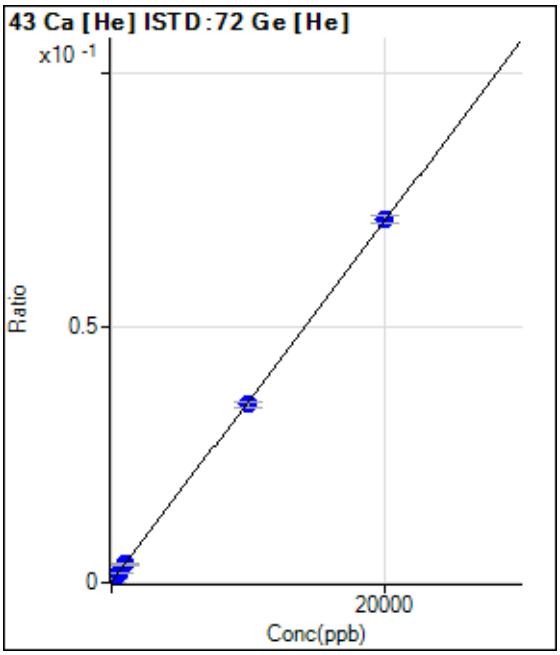
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	67755.82	0.0895	P	1.6
2	☐	200.000	207.323	246689.87	0.3288	P	1.2
3	☐	500.000	523.645	527008.69	0.6938	P	2.5
4	☐	1000.000	1023.345	956217.83	1.2703	A	2.1
5	☐	10000.00	9990.144	8725910.08	11.6170	A	0.8
6	☐	20000.00	20003.09	17246955.58	23.1708	A	1.3

y = 0.0012 * x + 0.0895
R = 1.0000
DL = 3.657
BEC = 77.59

Weight: <None>
Min Conc: <None>

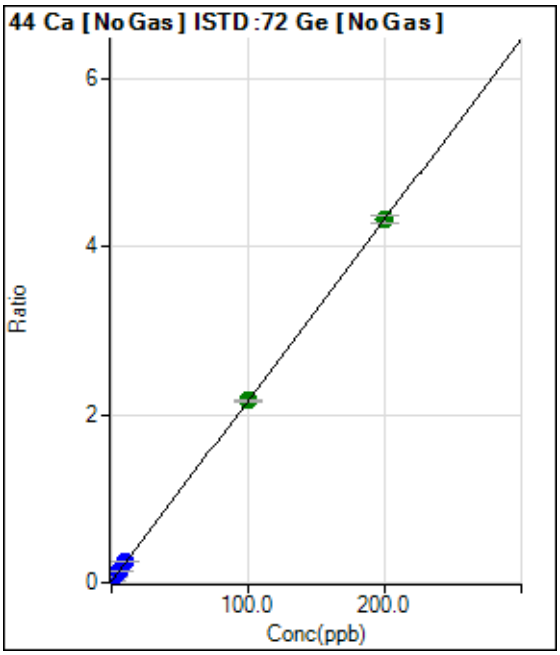


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0001	P	61.1
2	☐	200.000	208.390	603.36	0.0008	P	6.6
3	☐	500.000	485.412	1356.76	0.0018	P	3.9
4	☐	1000.000	995.093	2706.98	0.0036	P	7.6
5	☐	10000.00	9859.678	26282.14	0.0350	P	3.5
6	☐	20000.00	20070.68	52972.07	0.0712	P	2.1

y = 3.5430E-006 * x + 6.6229E-005
R = 1.0000
DL = 34.26
BEC = 18.69

Weight: <None>
Min Conc: <None>

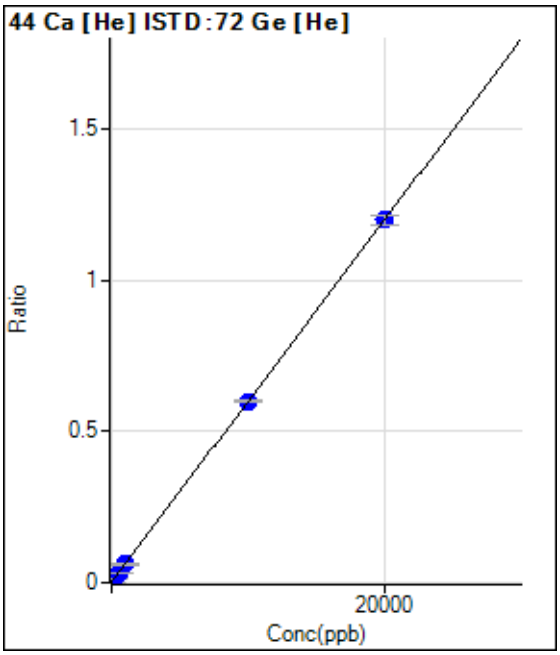
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	40011.90	0.0149	P	4.6
2	☐	2.000	2.107	160337.52	0.0603	P	1.4
3	☐	5.000	5.345	347996.01	0.1299	P	1.2
4	☐	10.000	10.706	652594.61	0.2453	P	2.0
5	☐	100.000	100.053	5744508.04	2.1676	A	1.1
6	☐	200.000	199.928	11291091.08	4.3165	A	2.2

y = 0.0215 * x + 0.0149
R = 1.0000
DL = 0.0967
BEC = 0.6938

Weight: <None>
Min Conc: <None>

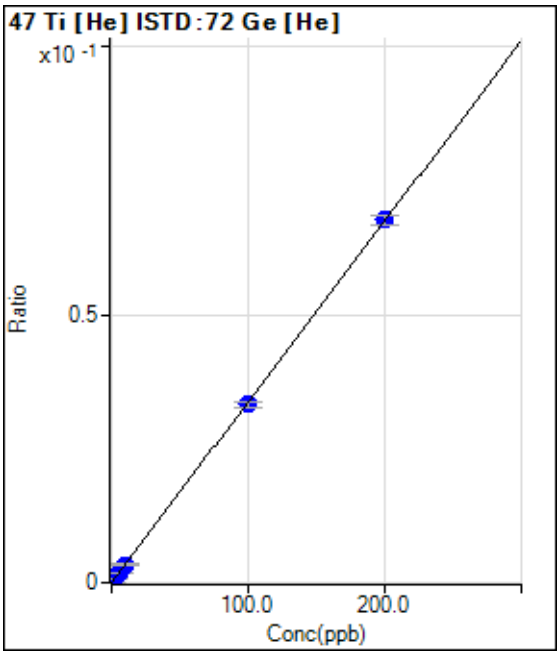


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	916.71	0.0012	P	5.2
2	☐	200.000	196.588	9733.58	0.0130	P	0.7
3	☐	500.000	481.181	22785.91	0.0300	P	3.7
4	☐	1000.000	998.158	45866.79	0.0609	P	2.3
5	☐	10000.00	9993.324	450020.42	0.5991	P	1.0
6	☐	20000.00	20003.93	891588.40	1.1980	P	2.8

y = 5.9829E-005 * x + 0.0012
R = 1.0000
DL = 3.152
BEC = 20.24

Weight: <None>
Min Conc: <None>

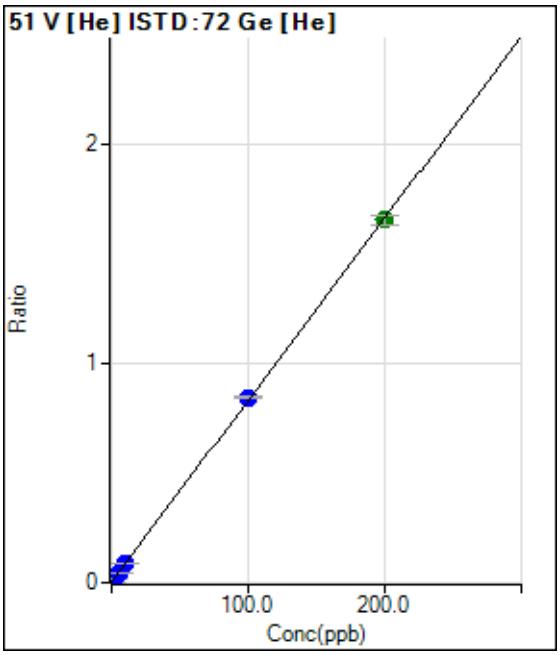
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	91.1
2	☐	2.000	2.110	550.02	0.0007	P	13.7
3	☐	5.000	5.168	1340.09	0.0018	P	9.4
4	☐	10.000	9.841	2513.61	0.0033	P	7.7
5	☐	100.000	98.423	24942.91	0.0332	P	3.0
6	☐	200.000	200.791	50412.61	0.0677	P	3.0

y = 3.3724E-004 * x + 2.1794E-005
R = 1.0000
DL = 0.1766
BEC = 0.06463

Weight: <None>
Min Conc: <None>

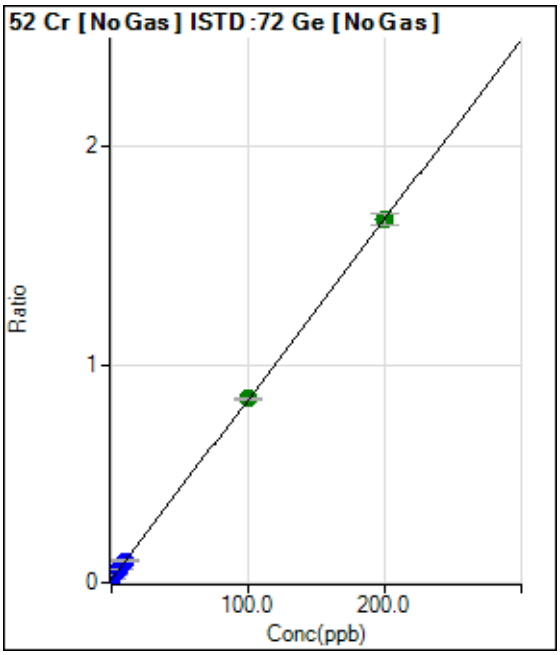


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2180.19	0.0029	P	3.3
2	☐	2.000	1.989	14541.08	0.0194	P	1.2
3	☐	5.000	4.978	33565.44	0.0442	P	2.3
4	☐	10.000	10.113	65339.37	0.0868	P	1.5
5	☐	100.000	101.551	635065.66	0.8455	P	1.1
6	☐	200.000	199.220	1232495.71	1.6559	A	2.7

y = 0.0083 * x + 0.0029
R = 1.0000
DL = 0.0348
BEC = 0.3472

Weight: <None>
Min Conc: <None>

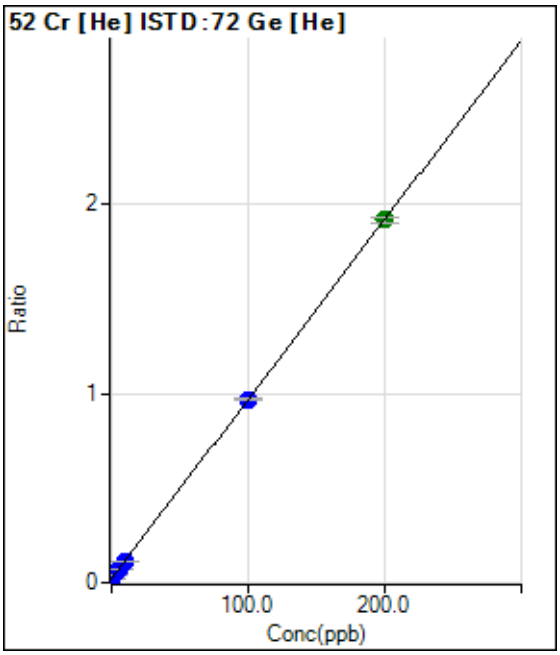
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	40537.06	0.0151	P	3.7
2	☐	2.000	2.050	85234.40	0.0320	P	1.7
3	☐	5.000	5.294	157481.47	0.0588	P	0.3
4	☐	10.000	10.414	268819.71	0.1010	P	2.5
5	☐	100.000	100.276	2232330.75	0.8424	A	1.3
6	☐	200.000	199.833	4351809.93	1.6637	A	3.1

y = 0.0082 * x + 0.0151
R = 1.0000
DL = 0.2012
BEC = 1.833

Weight: <None>
Min Conc: <None>

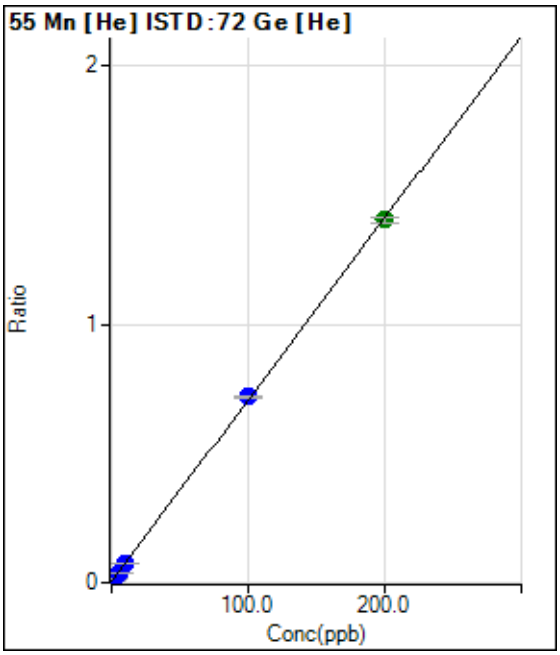


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15432.28	0.0204	P	0.9
2	☐	2.000	1.981	29388.37	0.0392	P	2.9
3	☐	5.000	5.124	52407.09	0.0690	P	2.7
4	☐	10.000	10.095	87438.53	0.1161	P	0.2
5	☐	100.000	100.051	728053.27	0.9693	P	1.2
6	☐	200.000	199.967	1426761.95	1.9169	A	1.5

y = 0.0095 * x + 0.0204
R = 1.0000
DL = 0.05912
BEC = 2.15

Weight: <None>
Min Conc: <None>

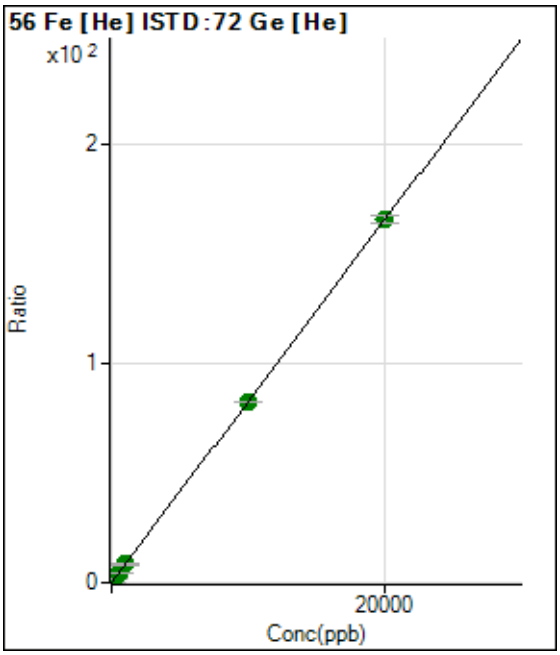
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3387.14	0.0045	P	1.8
2	☐	2.000	2.004	13927.30	0.0186	P	4.3
3	☐	5.000	5.035	30294.00	0.0399	P	1.2
4	☐	10.000	10.138	57015.71	0.0758	P	2.7
5	☐	100.000	101.730	540556.41	0.7197	P	1.3
6	☐	200.000	199.127	1045432.20	1.4044	A	1.7

y = 0.0070 * x + 0.0045
R = 0.9999
DL = 0.03355
BEC = 0.6364

Weight: <None>
Min Conc: <None>

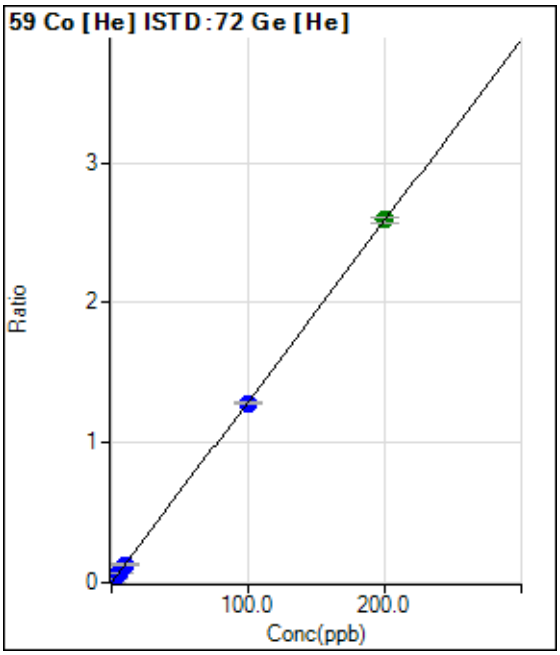


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19911.47	0.0263	P	3.2
2	☐	200.000	205.484	1292995.76	1.7232	A	0.4
3	☐	500.000	513.527	3241236.20	4.2671	A	3.2
4	☐	1000.000	1008.346	6287284.28	8.3533	A	2.6
5	☐	10000.00	9967.153	61845014.08	82.3361	A	0.8
6	☐	20000.00	20015.61	123034811.5	165.317	A	2.1

y = 0.0083 * x + 0.0263
R = 1.0000
DL = 0.3015
BEC = 3.187

Weight: <None>
Min Conc: <None>

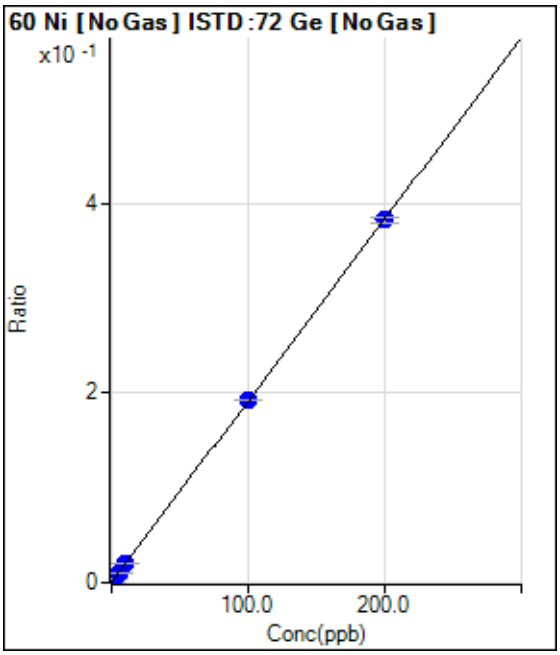
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	223.34	0.0003	P	3.4
2	☐	2.000	1.984	19470.82	0.0260	P	2.4
3	☐	5.000	4.978	49142.15	0.0647	P	1.6
4	☐	10.000	9.990	97486.83	0.1295	P	2.1
5	☐	100.000	99.091	962781.58	1.2819	P	1.5
6	☐	200.000	200.456	1929917.47	2.5928	A	1.2

y = 0.0129 * x + 2.9514E-004
R = 1.0000
DL = 0.002341
BEC = 0.02282

Weight: <None>
Min Conc: <None>

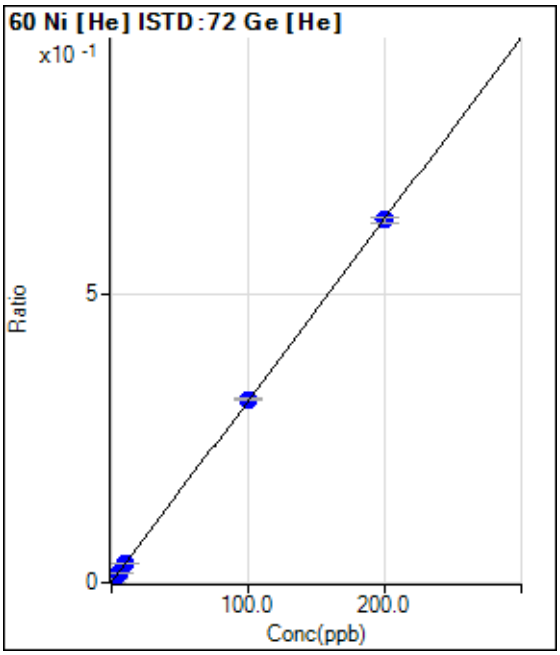


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	870.04	0.0003	P	6.0
2	☐	2.000	2.065	11378.28	0.0043	P	5.9
3	☐	5.000	5.138	27194.23	0.0102	P	3.0
4	☐	10.000	10.371	53665.55	0.0202	P	1.7
5	☐	100.000	100.503	510467.68	0.1926	P	0.6
6	☐	200.000	199.726	1000430.87	0.3825	P	1.8

y = 0.0019 * x + 3.2467E-004
R = 1.0000
DL = 0.03035
BEC = 0.1697

Weight: <None>
Min Conc: <None>

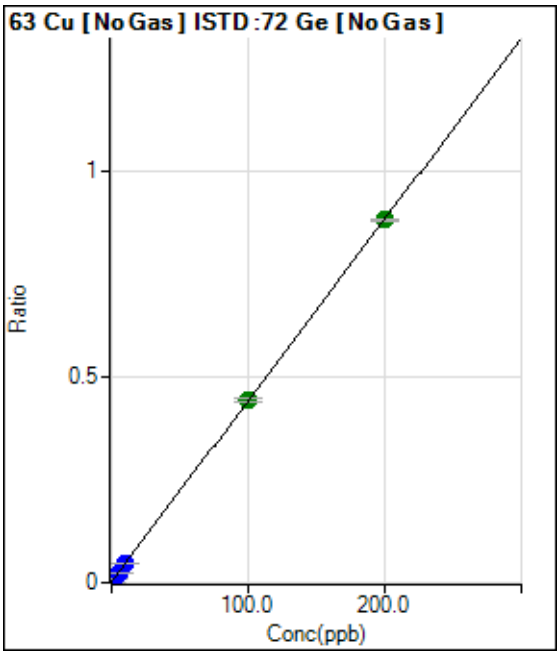
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	423.34	0.0006	P	7.1
2	☐	2.000	2.031	5214.42	0.0070	P	4.6
3	☐	5.000	5.125	12676.09	0.0167	P	3.2
4	☐	10.000	10.333	24889.68	0.0331	P	5.0
5	☐	100.000	100.816	238739.91	0.3178	P	0.7
6	☐	200.000	199.572	467900.29	0.6286	P	1.4

y = 0.0031 * x + 5.5962E-004
R = 1.0000
DL = 0.03777
BEC = 0.1778

Weight: <None>
Min Conc: <None>

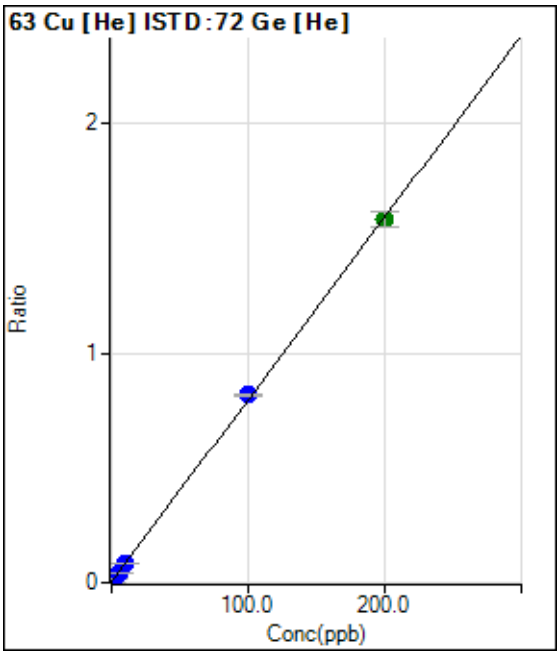


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5804.68	0.0022	P	0.7
2	☐	2.000	2.098	30330.71	0.0114	P	1.5
3	☐	5.000	5.300	68257.82	0.0255	P	0.7
4	☐	10.000	10.542	129209.39	0.0486	P	0.3
5	☐	100.000	100.370	1176262.95	0.4438	A	2.5
6	☐	200.000	199.779	2305239.08	0.8813	A	0.3

y = 0.0044 * x + 0.0022
R = 1.0000
DL = 0.01018
BEC = 0.4919

Weight: <None>
Min Conc: <None>

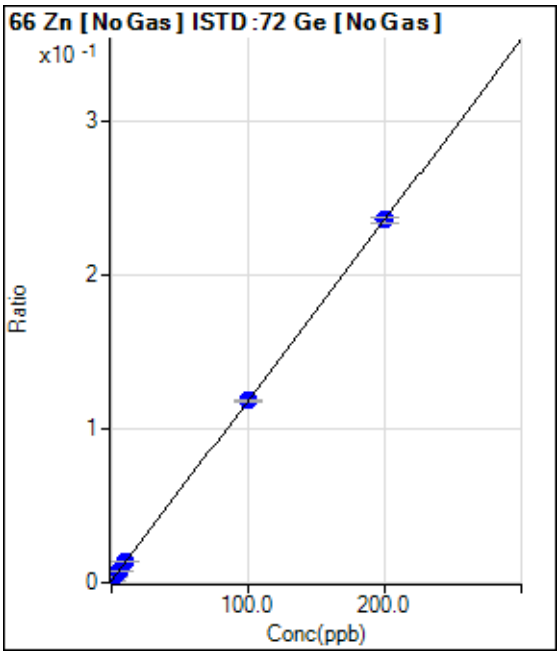
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2716.98	0.0036	P	4.3
2	☐	2.000	2.048	14888.44	0.0198	P	0.8
3	☐	5.000	5.212	34149.82	0.0450	P	3.2
4	☐	10.000	10.445	65115.69	0.0865	P	1.7
5	☐	100.000	102.507	613813.99	0.8172	P	1.2
6	☐	200.000	198.718	1176233.16	1.5809	A	4.2

y = 0.0079 * x + 0.0036
R = 0.9999
DL = 0.05859
BEC = 0.4523

Weight: <None>
Min Conc: <None>

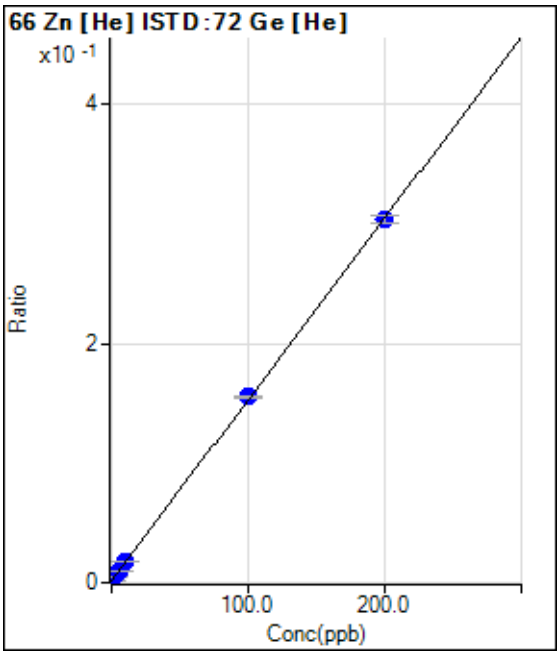


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3237.11	0.0012	P	1.3
2	☐	2.000	1.957	9330.02	0.0035	P	2.8
3	☐	5.000	5.080	19213.94	0.0072	P	0.0
4	☐	10.000	10.296	35393.23	0.0133	P	2.4
5	☐	100.000	99.961	314339.06	0.1186	P	1.2
6	☐	200.000	200.003	617623.09	0.2361	P	1.8

y = 0.0012 * x + 0.0012
R = 1.0000
DL = 0.0398
BEC = 1.028

Weight: <None>
Min Conc: <None>

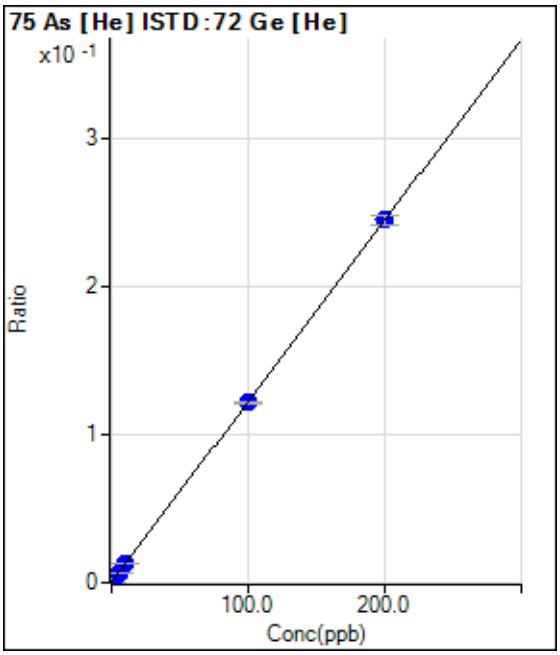
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1173.41	0.0015	P	11.1
2	☐	2.000	2.071	3513.86	0.0047	P	1.6
3	☐	5.000	5.362	7345.42	0.0097	P	2.8
4	☐	10.000	10.324	12926.36	0.0172	P	2.8
5	☐	100.000	101.499	116564.34	0.1552	P	0.7
6	☐	200.000	199.224	225573.26	0.3031	P	2.2

y = 0.0015 * x + 0.0015
R = 1.0000
DL = 0.3399
BEC = 1.023

Weight: <None>
Min Conc: <None>

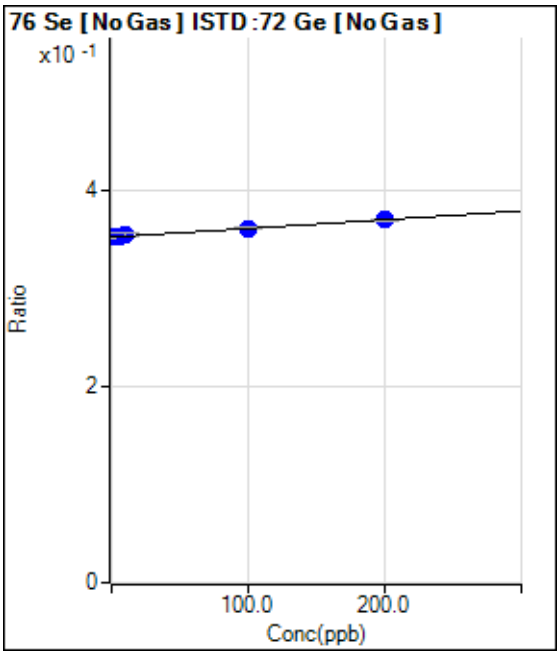


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	241.11	0.0003	P	12.8
2	☐	2.000	2.024	2093.51	0.0028	P	3.0
3	☐	5.000	4.953	4836.45	0.0064	P	6.3
4	☐	10.000	10.117	9537.86	0.0127	P	3.4
5	☐	100.000	99.290	91317.60	0.1216	P	0.4
6	☐	200.000	200.350	182312.12	0.2450	P	2.6

y = 0.0012 * x + 3.1813E-004
R = 1.0000
DL = 0.09981
BEC = 0.2605

Weight: <None>
Min Conc: <None>

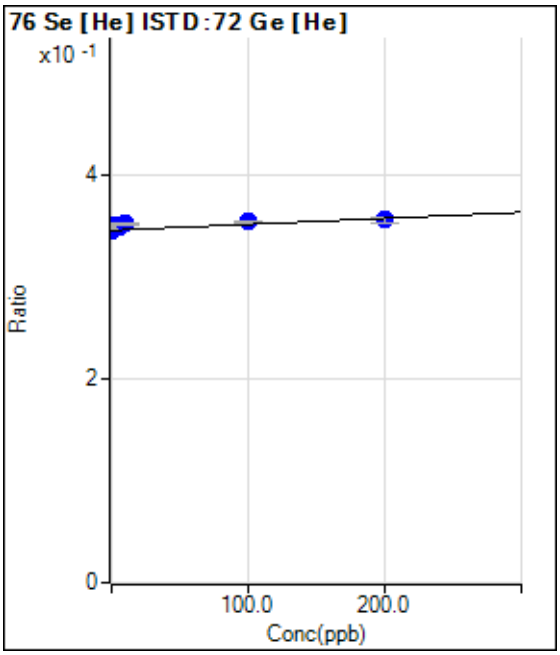
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	943245.27	0.3518	P	0.6
2	☐	2.000	3.325	936798.47	0.3521	P	1.2
3	☐	5.000	3.491	942974.31	0.3521	P	0.5
4	☐	10.000	26.892	942422.25	0.3542	P	1.2
5	☐	100.000	104.298	956783.55	0.3610	P	1.0
6	☐	200.000	197.031	965931.31	0.3693	P	0.8

y = 8.8872E-005 * x + 0.3518
R = 0.9963
DL = 69.11
BEC = 3958

Weight: <None>
Min Conc: <None>

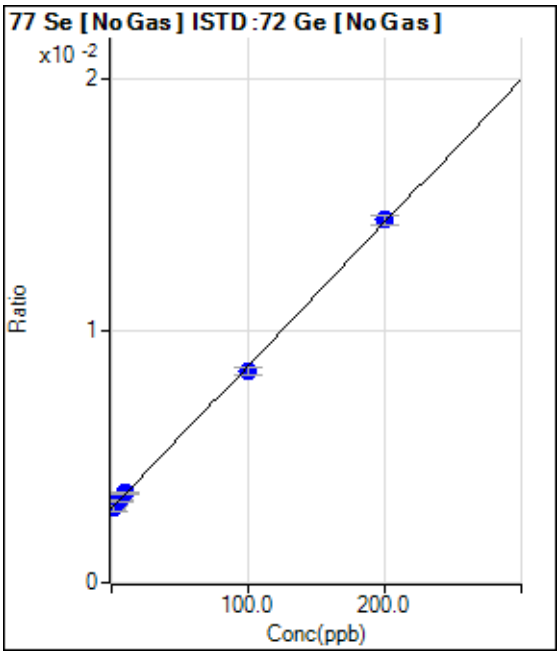


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	261798.99	0.3459	P	0.6
2	☐	2.000	72.951	262751.49	0.3502	P	0.3
3	☐	5.000	52.306	265165.55	0.3490	P	0.6
4	☐	10.000	113.858	265460.94	0.3526	P	0.7
5	☐	100.000	140.516	266046.13	0.3542	P	0.4
6	☐	200.000	172.657	265014.75	0.3561	P	1.9

y = 5.9084E-005 * x + 0.3459
R = 0.8161
DL = 102.1
BEC = 5854

Weight: <None>
Min Conc: <None>

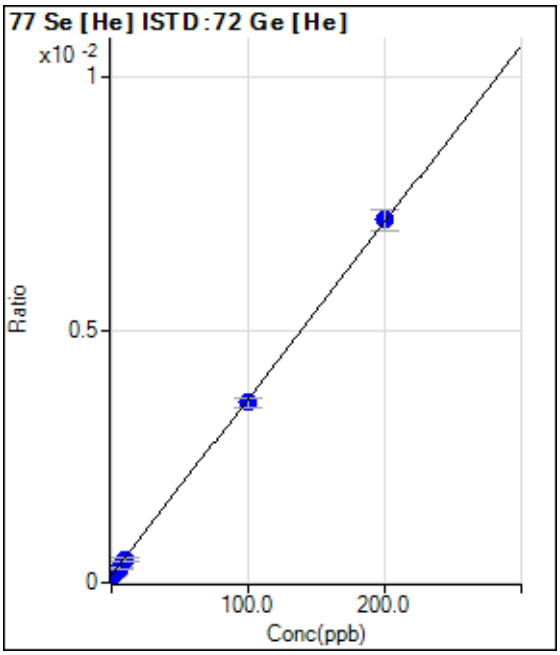
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7885.78	0.0029	P	2.9
2	☐	2.000	-0.010	7825.73	0.0029	P	6.4
3	☐	5.000	5.357	8692.96	0.0032	P	2.8
4	☐	10.000	10.737	9450.14	0.0036	P	3.5
5	☐	100.000	96.404	22305.37	0.0084	P	4.0
6	☐	200.000	201.772	37673.03	0.0144	P	2.6

y = 5.6802E-005 * x + 0.0029
R = 0.9997
DL = 4.468
BEC = 51.79

Weight: <None>
Min Conc: <None>

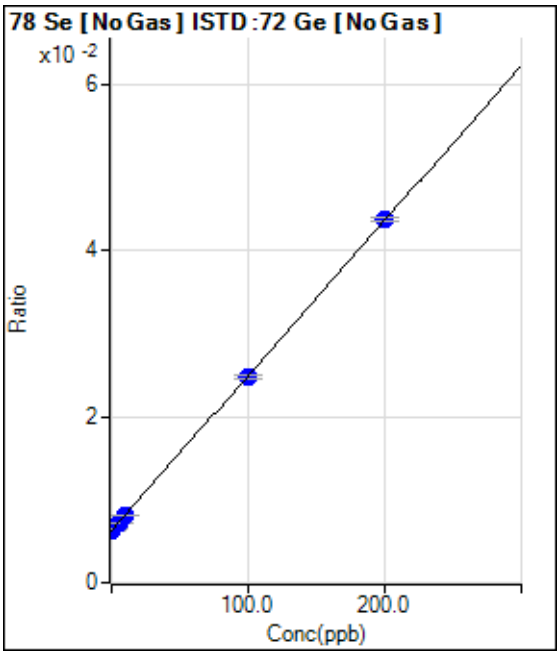


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	110.00	0.0001	P	30.9
2	☐	2.000	0.179	113.33	0.0002	P	20.3
3	☐	5.000	3.894	213.34	0.0003	P	14.5
4	☐	10.000	8.649	336.68	0.0004	P	16.3
5	☐	100.000	97.700	2673.65	0.0036	P	5.1
6	☐	200.000	201.263	5347.84	0.0072	P	6.0

y = 3.4945E-005 * x + 1.4478E-004
R = 0.9999
DL = 3.836
BEC = 4.143

Weight: <None>
Min Conc: <None>

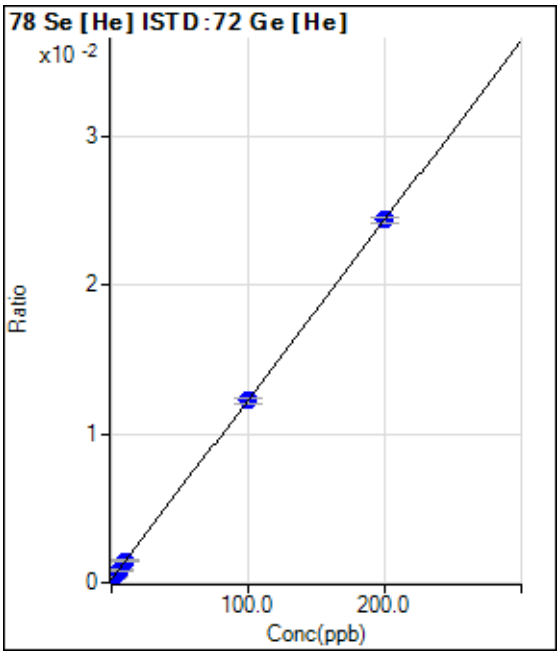
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16890.86	0.0063	P	0.7
2	☐	2.000	1.863	17688.55	0.0066	P	2.3
3	☐	5.000	4.968	19357.54	0.0072	P	1.8
4	☐	10.000	9.899	21684.40	0.0081	P	1.8
5	☐	100.000	99.269	65861.13	0.0248	P	2.5
6	☐	200.000	200.373	114413.13	0.0437	P	1.2

y = 1.8686E-004 * x + 0.0063
R = 1.0000
DL = 0.6958
BEC = 33.71

Weight: <None>
Min Conc: <None>

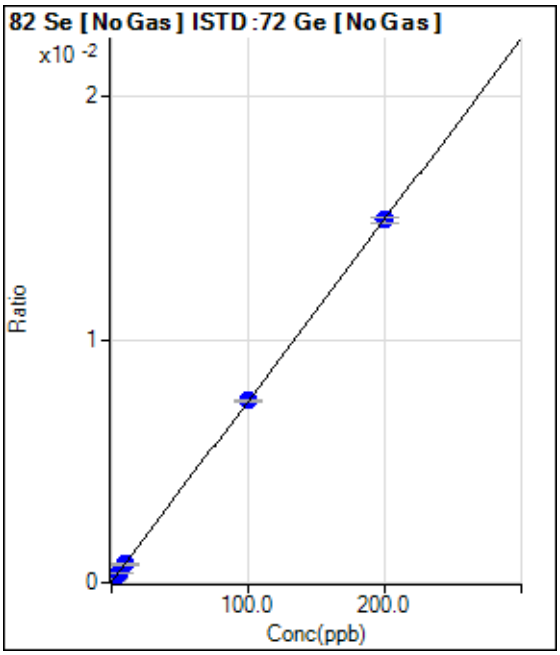


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	171.33	0.0002	P	8.7
2	☐	2.000	1.798	332.67	0.0004	P	4.4
3	☐	5.000	5.076	638.02	0.0008	P	1.9
4	☐	10.000	10.091	1087.38	0.0014	P	10.4
5	☐	100.000	99.689	9219.84	0.0123	P	3.1
6	☐	200.000	200.151	18178.93	0.0244	P	1.4

y = 1.2088E-004 * x + 2.2618E-004
R = 1.0000
DL = 0.4857
BEC = 1.871

Weight: <None>
Min Conc: <None>

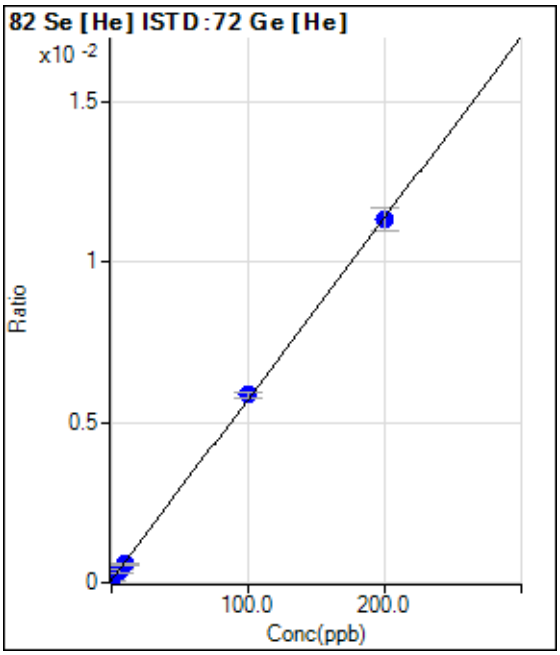
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64.66	0.0000	P	224.5
2	☐	2.000	2.185	498.01	0.0002	P	9.8
3	☐	5.000	5.227	1108.08	0.0004	P	9.9
4	☐	10.000	10.089	2064.53	0.0008	P	10.4
5	☐	100.000	100.181	19853.17	0.0075	P	1.5
6	☐	200.000	199.897	39035.79	0.0149	P	1.6

y = 7.4533E-005 * x + 2.4290E-005
R = 1.0000
DL = 2.195
BEC = 0.3259

Weight: <None>
Min Conc: <None>

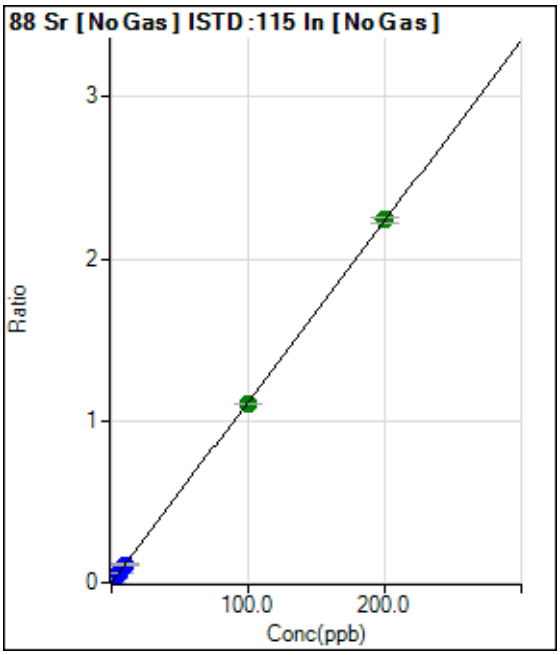


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	60.00	0.0001	P	14.9
2	☐	2.000	3.168	193.34	0.0003	P	11.9
3	☐	5.000	4.828	266.68	0.0004	P	23.0
4	☐	10.000	8.732	430.02	0.0006	P	11.2
5	☐	100.000	102.308	4397.49	0.0059	P	2.6
6	☐	200.000	198.902	8412.77	0.0113	P	6.5

y = 5.6434E-005 * x + 7.9124E-005
R = 0.9999
DL = 0.6258
BEC = 1.402

Weight: <None>
Min Conc: <None>

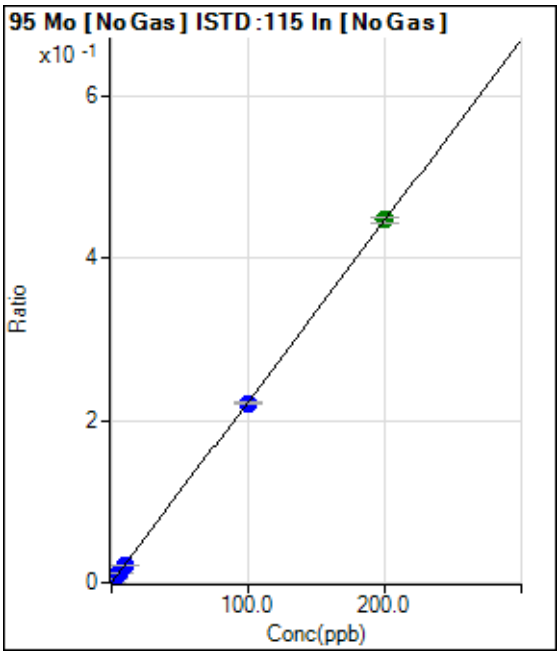
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1163.40	0.0004	P	4.4
2	☐	2.000	1.977	71262.94	0.0224	P	2.0
3	☐	5.000	5.172	181002.84	0.0581	P	1.8
4	☐	10.000	10.059	355359.21	0.1127	P	1.8
5	☐	100.000	98.636	3410805.05	1.1019	A	0.3
6	☐	200.000	200.675	6767907.19	2.2414	A	1.6

y = 0.0112 * x + 3.7369E-004
R = 1.0000
DL = 0.004456
BEC = 0.03346

Weight: <None>
Min Conc: <None>

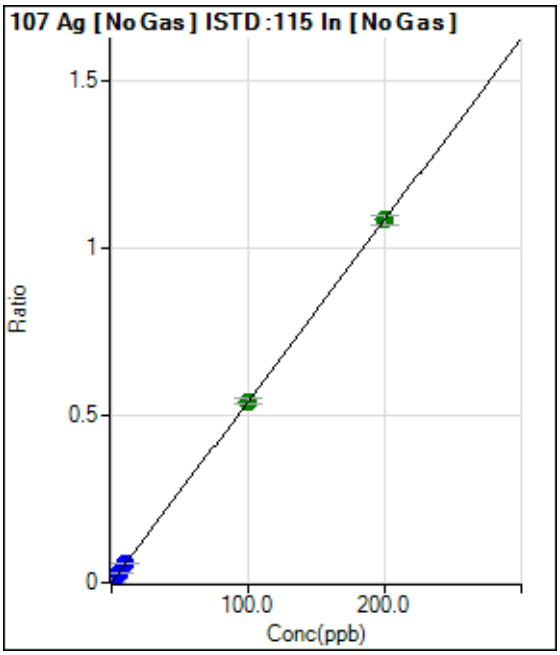


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	140.00	0.0000	P	27.3
2	☐	2.000	1.886	13513.76	0.0043	P	1.3
3	☐	5.000	4.905	34240.96	0.0110	P	1.8
4	☐	10.000	9.662	68170.89	0.0216	P	3.4
5	☐	100.000	99.172	685572.33	0.2215	P	0.9
6	☐	200.000	200.434	1351449.20	0.4476	A	1.7

y = 0.0022 * x + 4.4812E-005
R = 1.0000
DL = 0.01643
BEC = 0.02007

Weight: <None>
Min Conc: <None>

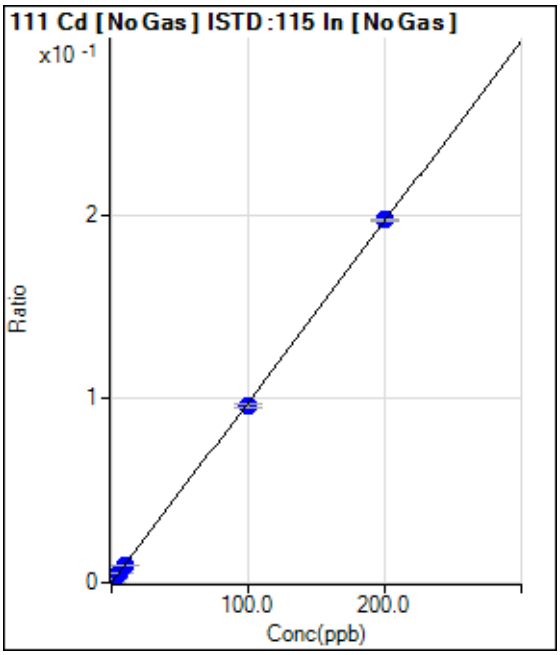
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	153.33	0.0000	P	21.4
2	☐	2.000	2.008	34682.41	0.0109	P	0.9
3	☐	5.000	5.206	87948.32	0.0282	P	1.0
4	☐	10.000	10.239	175047.77	0.0555	P	2.2
5	☐	100.000	99.937	1675399.14	0.5414	A	3.1
6	☐	200.000	200.014	3271468.81	1.0834	A	2.5

y = 0.0054 * x + 4.9323E-005
R = 1.0000
DL = 0.005852
BEC = 0.009106

Weight: <None>
Min Conc: <None>

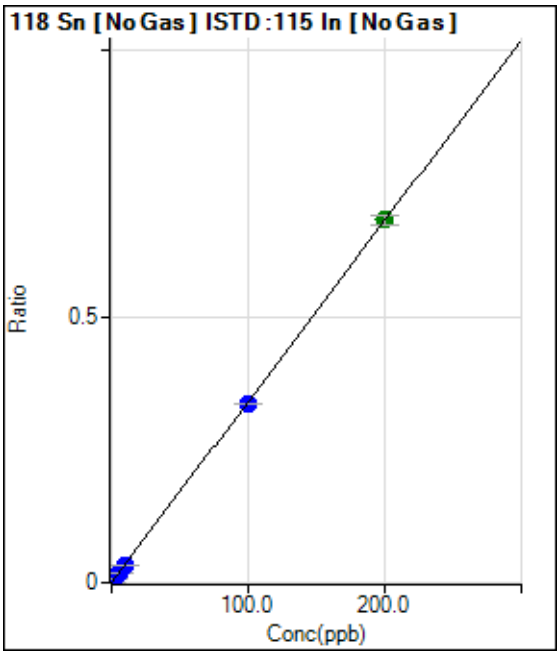


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-4.55	0.0000	P	-131.0
2	☐	2.000	1.921	5982.41	0.0019	P	9.2
3	☐	5.000	5.069	15487.84	0.0050	P	3.6
4	☐	10.000	9.861	30527.66	0.0097	P	1.1
5	☐	100.000	98.295	298703.61	0.0965	P	2.2
6	☐	200.000	200.858	595463.66	0.1972	P	0.7

y = 9.8186E-004 * x - 1.4398E-006
R = 0.9999
DL = 0.005763
BEC = -0.001466

Weight: <None>
Min Conc: <None>

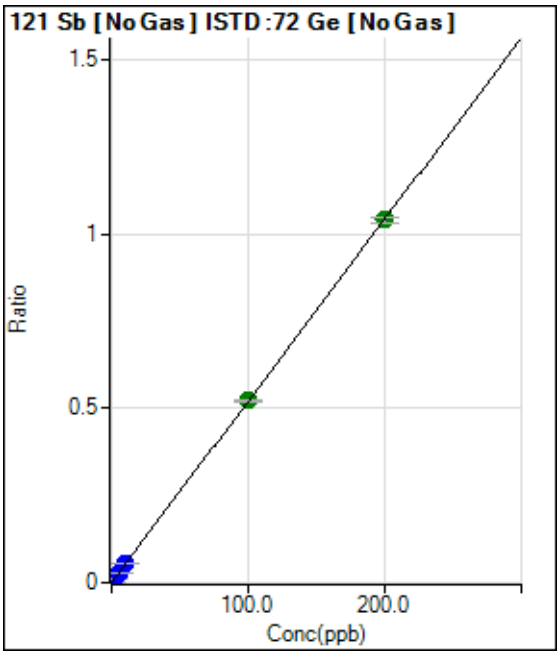
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1513.45	0.0005	P	3.2
2	☐	2.000	1.872	21721.56	0.0068	P	4.1
3	☐	5.000	4.887	53201.08	0.0171	P	3.2
4	☐	10.000	9.785	106348.57	0.0337	P	2.2
5	☐	100.000	98.805	1040513.06	0.3362	P	0.8
6	☐	200.000	200.613	2059398.62	0.6820	A	2.5

y = 0.0034 * x + 4.8575E-004
R = 1.0000
DL = 0.01359
BEC = 0.143

Weight: <None>
Min Conc: <None>

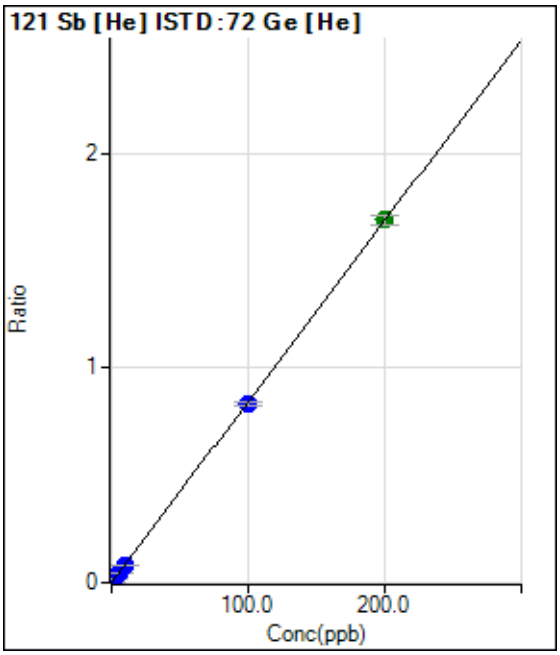


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	463.35	0.0002	P	23.9
2	☐	2.000	2.031	28574.90	0.0107	P	0.3
3	☐	5.000	5.109	71648.44	0.0268	P	1.2
4	☐	10.000	10.233	142093.97	0.0534	P	2.6
5	☐	100.000	100.335	1383797.95	0.5221	A	0.6
6	☐	200.000	199.818	2719607.25	1.0397	A	1.7

y = 0.0052 * x + 1.7291E-004
R = 1.0000
DL = 0.02383
BEC = 0.03324

Weight: <None>
Min Conc: <None>

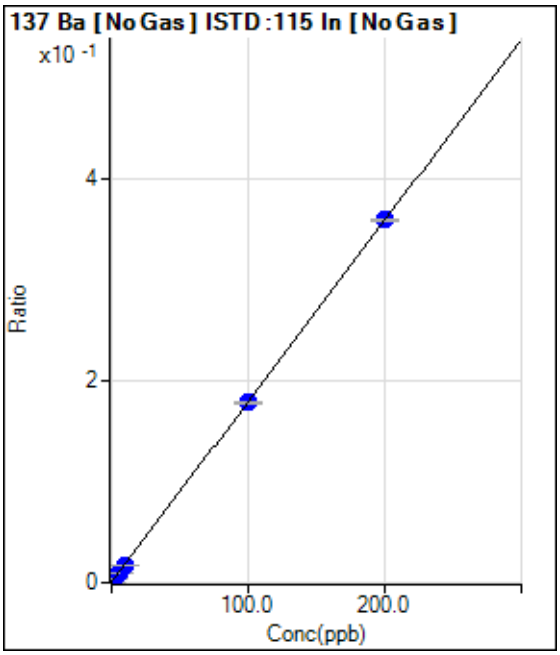
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	206.67	0.0003	P	26.0
2	☐	2.000	1.994	12799.74	0.0171	P	2.0
3	☐	5.000	4.990	32126.36	0.0423	P	1.0
4	☐	10.000	9.835	62522.30	0.0831	P	2.4
5	☐	100.000	98.740	624436.80	0.8314	P	2.6
6	☐	200.000	200.639	1257119.85	1.6892	A	2.5

y = 0.0084 * x + 2.7386E-004
R = 1.0000
DL = 0.02542
BEC = 0.03253

Weight: <None>
Min Conc: <None>

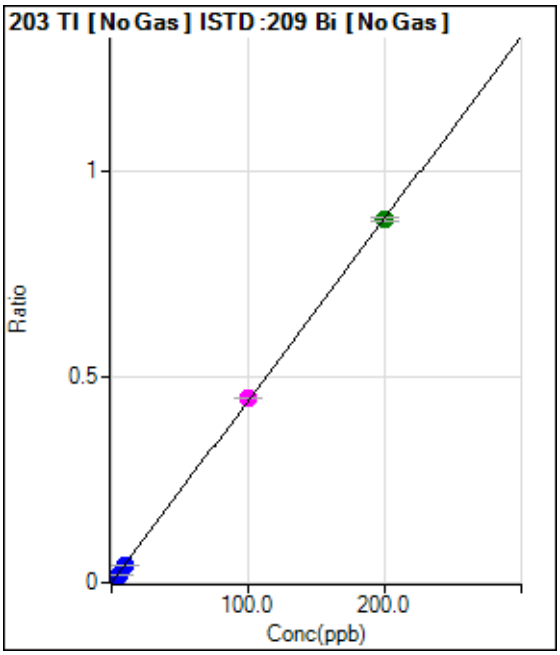


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1546.79	0.0005	P	0.2
2	☐	2.000	1.725	11401.89	0.0036	P	0.7
3	☐	5.000	4.871	28755.59	0.0092	P	3.0
4	☐	10.000	9.567	55679.50	0.0177	P	1.6
5	☐	100.000	99.274	552712.76	0.1786	P	1.6
6	☐	200.000	200.391	1086852.98	0.3600	P	0.8

y = 0.0018 * x + 4.9652E-004
R = 1.0000
DL = 0.00205
BEC = 0.2768

Weight: <None>
Min Conc: <None>

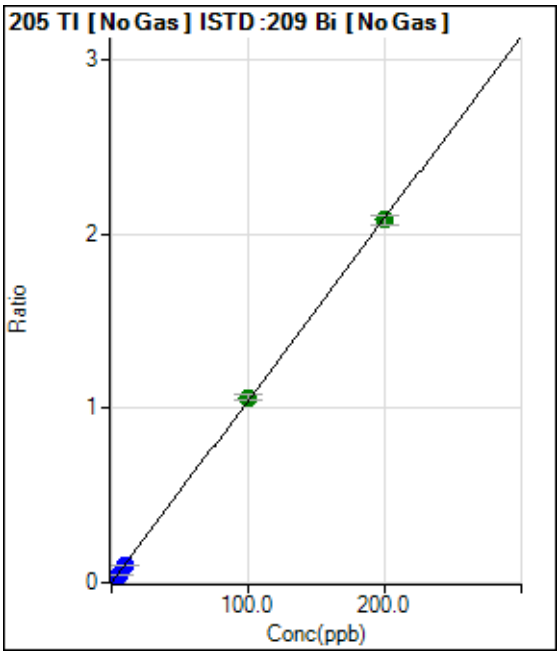
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	160.00	0.0001	P	18.9
2	☐	2.000	1.877	20967.92	0.0084	P	2.4
3	☐	5.000	4.536	51429.63	0.0201	P	3.9
4	☐	10.000	9.170	103819.48	0.0406	P	1.6
5	☐	100.000	101.420	1132126.34	0.4488	M	0.9
6	☐	200.000	199.344	2184462.78	0.8821	A	0.9

y = 0.0044 * x + 6.2685E-005
R = 1.0000
DL = 0.008024
BEC = 0.01417

Weight: <None>
Min Conc: <None>

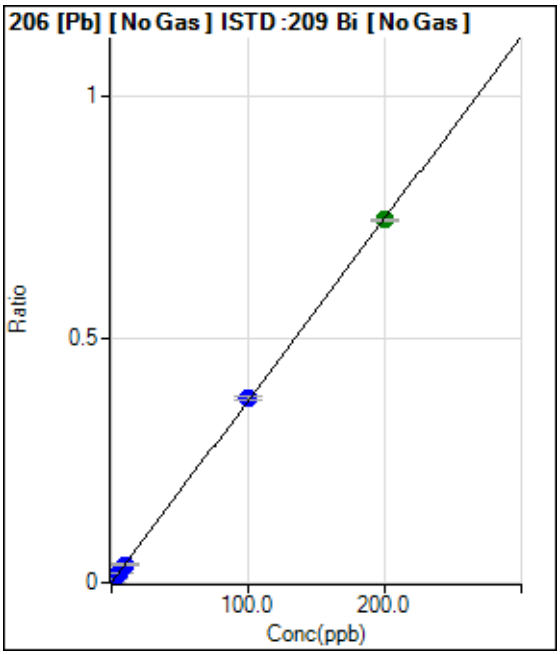


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	283.34	0.0001	P	18.0
2	☐	2.000	1.887	49632.51	0.0198	P	3.1
3	☐	5.000	4.660	124561.20	0.0488	P	2.0
4	☐	10.000	9.318	248772.89	0.0974	P	0.9
5	☐	100.000	101.732	2678350.11	1.0620	A	3.5
6	☐	200.000	199.178	5148943.26	2.0791	A	2.4

y = 0.0104 * x + 1.1087E-004
R = 0.9999
DL = 0.005729
BEC = 0.01062

Weight: <None>
Min Conc: <None>

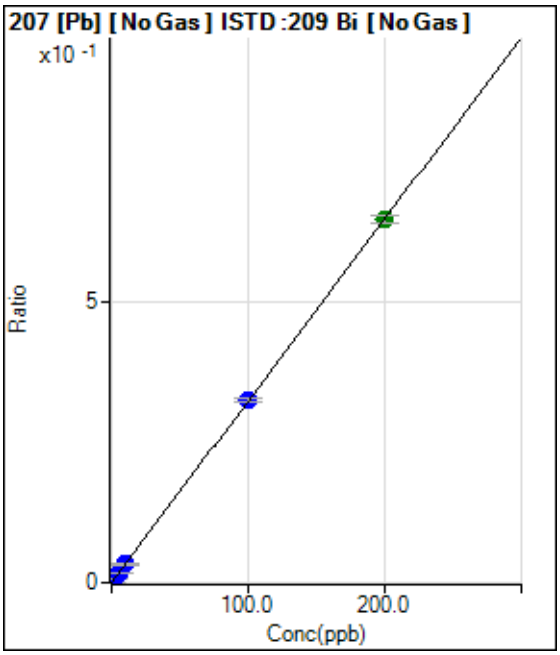
Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	276.68	0.0001	P	8.7
2	☐	2.000	2.007	19054.77	0.0076	P	2.5
3	☐	5.000	5.094	48896.26	0.0191	P	1.0
4	☐	10.000	9.953	95255.62	0.0373	P	2.0
5	☐	100.000	101.372	955353.24	0.3788	P	2.6
6	☐	200.000	199.314	1844074.30	0.7446	A	0.5

y = 0.0037 * x + 1.0821E-004
R = 1.0000
DL = 0.007552
BEC = 0.02897

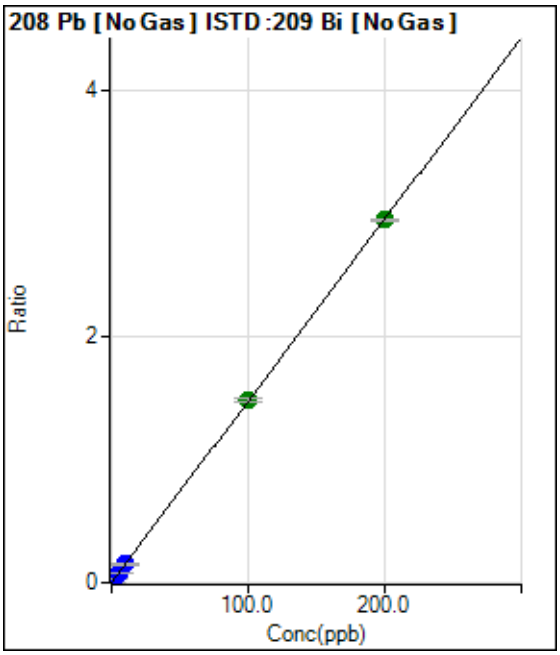
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	210.01	0.0001	P	27.2
2	☐	2.000	1.988	16297.64	0.0065	P	4.5
3	☐	5.000	5.061	41967.86	0.0164	P	3.9
4	☐	10.000	10.045	83065.93	0.0325	P	2.8
5	☐	100.000	100.677	820141.50	0.3252	P	2.0
6	☐	200.000	199.658	1596715.81	0.6448	A	2.0

y = 0.0032 * x + 8.1643E-005
R = 1.0000
DL = 0.02062
BEC = 0.02528

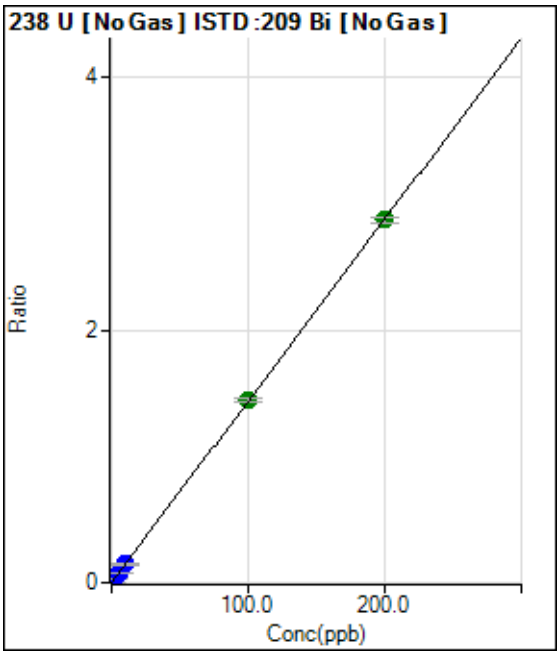
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1096.71	0.0004	P	12.3
2	☐	2.000	2.026	75825.11	0.0303	P	1.1
3	☐	5.000	5.121	193750.62	0.0758	P	1.5
4	☐	10.000	10.119	381752.32	0.1494	P	2.0
5	☐	100.000	100.418	3730727.16	1.4791	A	1.8
6	☐	200.000	199.782	7286272.97	2.9422	A	0.7

y = 0.0147 * x + 4.2749E-004
R = 1.0000
DL = 0.01072
BEC = 0.02903

Weight: <None>
Min Conc: <None>

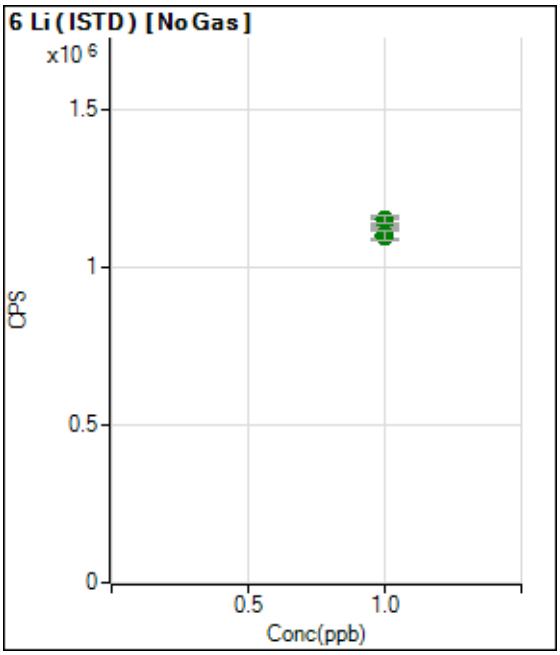


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0000	P	19.5
2	☐	2.000	2.011	72474.04	0.0289	P	0.5
3	☐	5.000	5.065	186112.24	0.0728	P	1.7
4	☐	10.000	10.085	370503.80	0.1450	P	1.8
5	☐	100.000	100.282	3637394.01	1.4421	A	2.0
6	☐	200.000	199.853	7117424.90	2.8740	A	1.3

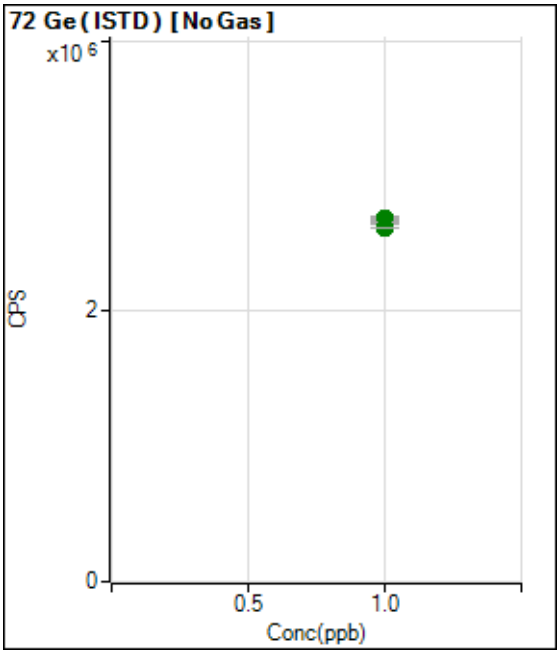
y = 0.0144 * x + 1.0377E-005
R = 1.0000
DL = 0.0004223
BEC = 0.0007216

Weight: <None>
Min Conc: <None>

Calibration for 023_ICV.d

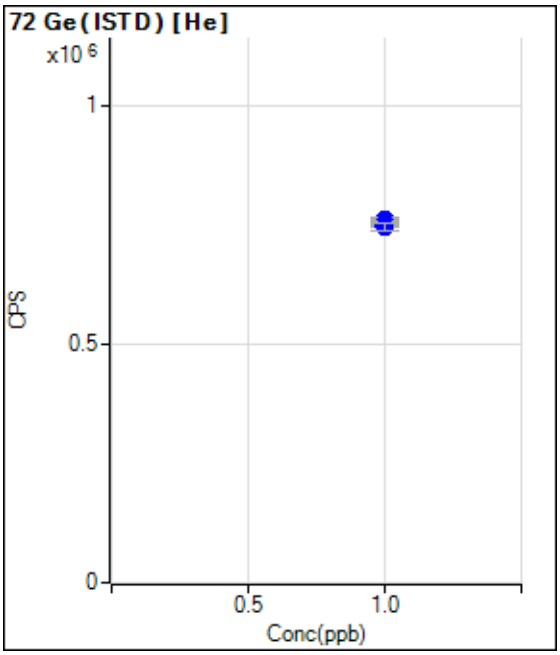


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1128563.62		A	1.5
2	☐	1.000		1142982.71		A	1.3
3	☐	1.000		1143317.26		A	2.3
4	☐	1.000		1150744.25		A	2.0
5	☐	1.000		1105397.12		A	1.9
6	☐	1.000		1100392.77		A	2.7

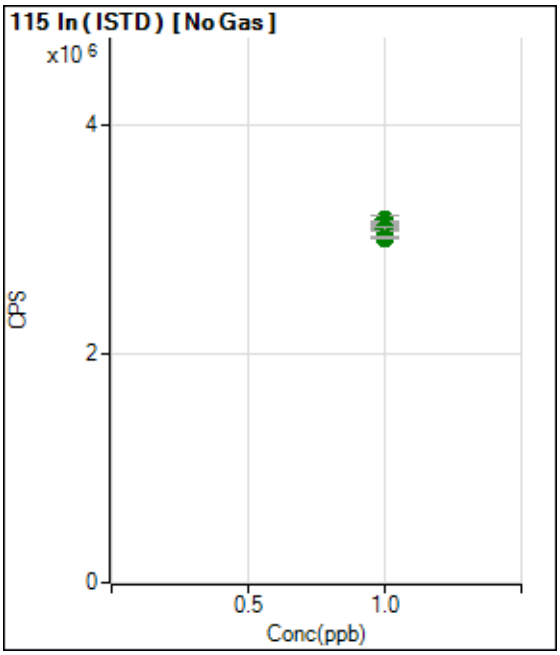


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2681639.65		A	1.8
2	☐	1.000		2661020.79		A	0.4
3	☐	1.000		2678438.08		A	0.9
4	☐	1.000		2661232.25		A	1.3
5	☐	1.000		2650268.30		A	0.7
6	☐	1.000		2615755.74		A	0.2

Calibration for 023_ICV.d

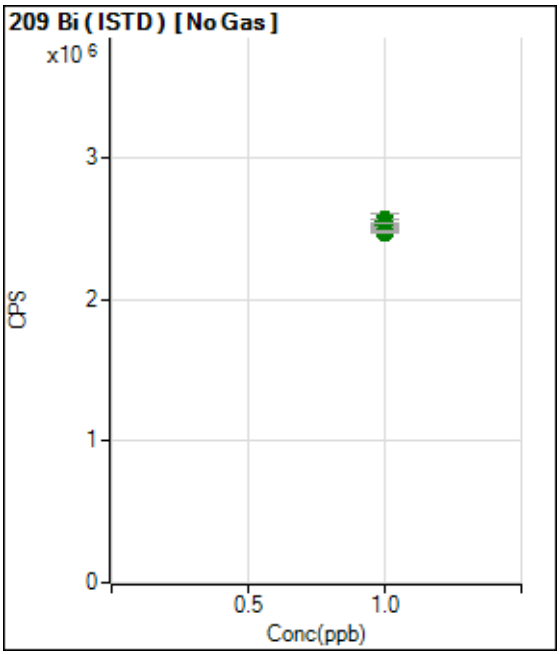


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		756956.55		P	1.8
2	☐	1.000		750338.74		P	1.3
3	☐	1.000		759875.09		P	1.8
4	☐	1.000		752924.26		P	2.0
5	☐	1.000		751187.54		P	1.4
6	☐	1.000		744454.91		P	2.1



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3115345.43		A	2.3
2	☐	1.000		3174986.79		A	2.0
3	☐	1.000		3113425.55		A	1.2
4	☐	1.000		3153331.38		A	0.6
5	☐	1.000		3095421.73		A	1.3
6	☐	1.000		3019454.31		A	0.5

Calibration for 023_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2561633.29		A	3.2
2	☐	1.000		2505755.43		A	1.1
3	☐	1.000		2555057.56		A	1.0
4	☐	1.000		2554855.06		A	0.8
5	☐	1.000		2522594.44		A	1.0
6	☐	1.000		2476457.62		A	0.3

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	024LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T10:50:32-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	016CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.119	2.119	5.91	100284	0.00	2	
Be	9	1	No Gas	1.944	1.944	2.27	6833	0.03	2	
V	51	2	He	1.834	1.834	3.71	13960	0.01	2	
Cr	52	2	He	2.051	2.051	5.36	30742	0.01	2	
Fe	56	2	He	201.959	201.959	2.06	1306781	0.02	200	
Se	78	2	He	1.846	1.846	3.36	347	0.53	2	
As	75	2	He	1.946	1.946	5.07	2079	0.09	2	
Ca	44	2	He	188.967	188.967	3.95	9660	1.96	200	
Na	23	2	He	206.300	206.300	2.22	286104	0.07	200	
Mg	24	2	He	212.027	212.027	0.93	141402	0.15	200	
K	39	2	He	203.072	203.072	2.50	249835	0.08	200	
Mn	55	2	He	1.927	1.927	2.60	13904	0.01	2	
Co	59	2	He	2.005	2.005	3.37	20232	0.01	2	
Ni	60	2	He	1.895	1.895	3.74	5031	0.04	2	
Cu	63	2	He	2.071	2.071	4.25	15446	0.01	2	
Zn	66	2	He	2.051	2.051	1.57	3591	0.06	2	
Al	27	2	He	1.411	1.411	31.92	1540	0.09	2	
B	11	1	No Gas	26.934	26.934	5.88	61688	0.04	10	NewName Main CR1 Failed
Al	27	1	No Gas	1.963	1.963	2.46	60164	0.00	2	
Si	28	1	No Gas	13.187	13.187	10.16	424151	0.00	10	NewName Main CR1 Failed
Ag	107	1	No Gas	2.079	2.079	1.88	35485	0.01	2	
Cd	111	1	No Gas	2.044	2.044	1.43	6292	0.03	2	
Sr	88	1	No Gas	2.057	2.057	0.24	73250	0.00	2	
Mo	95	1	No Gas	1.994	1.994	2.28	14104	0.01	2	
Sn	118	1	No Gas	2.022	2.022	0.31	23077	0.01	2	
Sb	121	1	No Gas	2.074	2.074	3.09	29891	0.01	2	
Ba	137	1	No Gas	1.695	1.695	2.59	11095	0.02	2	
Tl	205	1	No Gas	1.946	1.946	2.29	52287	0.00	2	
Tl	203	1	No Gas	1.919	1.919	3.50	21893	0.01	2	
Pb	208	1	No Gas	2.049	2.049	1.51	78345	0.00	2	
U	238	1	No Gas	1.989	1.989	1.78	73235	0.00	2	
Ca	43	2	He	174.352	174.352	18.72	527	33.10	200	
Sb	121	2	He	1.990	1.990	4.52	13133	0.02	2	
Ti	47	2	He	2.009	2.009	6.51	540	0.37	200	
Cu	63	1	No Gas	2.090	2.090	1.10	30982	0.01	2	
Se	82	1	No Gas	1.698	1.698	18.52	412	0.41	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1157026	2.06	1128564	102.52	70	120	
Ge	72	2	He	771540	1.72	756957	101.93	70	120	
Ge	72	1	No Gas	2727791	2.29	2681640	101.72	70	120	
In	115	1	No Gas	3137303	1.48	3115345	100.70	70	120	
Bi	209	1	No Gas	2560205	2.37	2561633	99.94	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	025LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T10:52:29-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	016CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	5.337	5.337	4.00	144706	0.00	5	
Be	9	1	No Gas	4.949	4.949	0.97	17267	0.03	5	
V	51	2	He	4.904	4.904	1.72	33433	0.01	5	
Cr	52	2	He	5.156	5.156	0.92	53163	0.01	5	
Fe	56	2	He	506.935	506.935	1.57	3232577	0.02	500	
Se	78	2	He	4.976	4.976	14.79	635	0.78	5	
As	75	2	He	4.999	4.999	5.12	4928	0.10	5	
Ca	44	2	He	485.926	485.926	2.02	23237	2.09	500	
Na	23	2	He	528.729	528.729	0.87	652563	0.08	500	
Mg	24	2	He	535.565	535.565	0.71	354470	0.15	500	
K	39	2	He	520.009	520.009	1.39	529089	0.10	500	
Mn	55	2	He	4.919	4.919	2.32	29973	0.02	5	
Co	59	2	He	5.018	5.018	0.65	50022	0.01	5	
Ni	60	2	He	5.260	5.260	5.39	13127	0.04	5	
Cu	63	2	He	5.263	5.263	1.40	34808	0.02	5	
Zn	66	2	He	4.996	4.996	4.88	6992	0.07	5	
Al	27	2	He	4.487	4.487	9.06	2804	0.16	5	
B	11	1	No Gas	33.228	33.228	1.30	73927	0.04	25	NewName2 Main CR1 Failed
Al	27	1	No Gas	4.975	4.975	1.82	107772	0.00	5	
Si	28	1	No Gas	27.798	27.798	4.98	537574	0.01	25	
Ag	107	1	No Gas	5.211	5.211	0.64	89485	0.01	5	
Cd	111	1	No Gas	4.898	4.898	2.49	15216	0.03	5	
Sr	88	1	No Gas	5.076	5.076	2.13	180546	0.00	5	
Mo	95	1	No Gas	4.903	4.903	0.97	34783	0.01	5	
Sn	118	1	No Gas	5.048	5.048	2.03	55805	0.01	5	
Sb	121	1	No Gas	5.077	5.077	1.16	72627	0.01	5	
Ba	137	1	No Gas	4.832	4.832	1.40	28999	0.02	5	
Tl	205	1	No Gas	4.736	4.736	0.98	125671	0.00	5	
Tl	203	1	No Gas	4.707	4.707	2.69	52973	0.01	5	
Pb	208	1	No Gas	5.175	5.175	1.06	194361	0.00	5	
U	238	1	No Gas	5.107	5.107	1.22	186277	0.00	5	
Ca	43	2	He	494.933	494.933	4.76	1397	35.43	500	
Sb	121	2	He	4.958	4.958	1.17	32237	0.02	5	
Ti	47	2	He	5.076	5.076	7.53	1330	0.38	5	
Cu	63	1	No Gas	5.259	5.259	2.17	69129	0.01	5	
Se	82	1	No Gas	3.997	3.997	12.25	881	0.45	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1149541	1.76	1128564	101.86	70	120	
Ge	72	2	He	767324	1.03	756957	101.37	70	120	
Ge	72	1	No Gas	2732261	1.49	2681640	101.89	70	120	
In	115	1	No Gas	3164659	1.65	3115345	101.58	70	120	
Bi	209	1	No Gas	2536471	1.43	2561633	99.02	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	026_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T10:54:27-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	016CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.065	71.2	71038	2.1	0.5	
Be	9	1	No Gas	0.005	70.6	23	49.5	0.5	
V	51	2	He	-0.109	-10.3	1501	2.8	2.5	
Cr	52	2	He	0.131	15.3	16423	1.2	2.5	
Fe	56	2	He	1.534	5.9	29589	1.6	100	
Se	78	2	He	0.003	32.3	172	2.0	1	
As	75	2	He	-0.071	-39.6	176	14.0	2.5	
Ca	44	2	He	11.131	27.4	1427	11.8	100	
Na	23	2	He	4.558	12.1	53770	1.4	100	
Mg	24	2	He	0.874	9.7	1057	5.5	100	
K	39	2	He	2.402	57.0	70054	0.7	100	
Mn	55	2	He	-0.006	-106.3	3364	3.0	2.5	
Co	59	2	He	0.021	152.7	430	72.6	2.5	
Ni	60	2	He	0.115	19.7	700	8.9	2.5	
Cu	63	2	He	0.027	73.5	2890	6.0	1	
Zn	66	2	He	0.631	33.0	1900	11.9	2.5	
Al	27	2	He	1.966	49.8	1740	22.0	5	
B	11	1	No Gas	5.791	7.7	18944	3.2	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	2.883	30.3	74626	16.6	5	
Si	28	1	No Gas	1.904	99.4	337827	2.6	10	
Ag	107	1	No Gas	0.008	27.8	287	14.1	2.5	
Cd	111	1	No Gas	0.001	254.3	-1	-1369.9	1	
Sr	88	1	No Gas	0.056	2.1	3144	3.5	2.5	
Mo	95	1	No Gas	0.010	71.1	210	21.8	2.5	
Sn	118	1	No Gas	0.107	4.7	2664	1.3	5	
Sb	121	1	No Gas	0.013	38.8	657	10.4	2.5	
Ba	137	1	No Gas	0.053	59.6	1853	11.6	2.5	
Tl	205	1	No Gas	0.027	33.1	1000	22.6	1	
Tl	203	1	No Gas	0.021	54.8	397	31.7	1	
Pb	208	1	No Gas	0.013	17.1	1590	6.4	2.5	
U	238	1	No Gas	0.003	58.7	140	46.8	2.5	
Ca	43	2	He	1.072	698.6	53	39.0	100	
Sb	121	2	He	0.012	22.4	283	4.1	2.5	
Ti	47	2	He	-0.039	-112.6	7	173.2	2.5	
Se	82	1	No Gas	-0.537	-97.5	-42	-251.6	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1151849	1.49	1128564	102.06	70	120	
Ge	72	2	He	759164	1.96	756957	100.29	70	120	
Ge	72	1	No Gas	2732361	1.65	2681640	101.89	70	120	
In	115	1	No Gas	3131213	2.29	3115345	100.51	70	120	
Bi	209	1	No Gas	2540808	1.15	2561633	99.19	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	028ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:00:32-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	016CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.475	25.2	72839	2.5	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.002	112.3	13	57.3	0	ICSA Main CR1 Failed
V	51	2	He	0.079	3.6	2527	0.3	0	ICSA Main CR1 Failed
Cr	52	2	He	1.584	7.0	25270	2.0	0	ICSA Main CR1 Failed
Fe	56	2	He	98942.134	1.4	583270631	1.7	0	
Se	78	2	He	0.338	24.8	191	4.7	0	ICSA Main CR1 Failed
As	75	2	He	0.251	6.7	446	2.8	0	ICSA Main CR1 Failed
Ca	44	2	He	96026.557	1.3	4101700	0.9	0	
Na	23	2	He	99809.027	2.5	106005212	2.0	0	
Mg	24	2	He	99850.484	1.7	61387727	0.7	0	
K	39	2	He	102393.036	2.0	84392880	1.1	0	
Mn	55	2	He	0.763	6.4	7022	2.7	0	ICSA Main CR1 Failed
Co	59	2	He	0.428	9.4	4164	8.0	0	ICSA Main CR1 Failed
Ni	60	2	He	0.878	19.0	2374	16.7	0	ICSA Main CR1 Failed
Cu	63	2	He	0.256	19.1	4014	6.1	0	ICSA Main CR1 Failed
Zn	66	2	He	2.684	6.2	4004	3.5	0	ICSA Main CR1 Failed
Al	27	2	He	100295.150	1.5	38573560	0.7	0	
B	11	1	No Gas	4.473	3.0	15465	1.3	0	
Al	27	1	No Gas	96275.435	0.8	1406028192	0.9	0	
Si	28	1	No Gas	24.057	0.7	471100	1.6	0	
Ag	107	1	No Gas	0.169	7.0	2770	6.3	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.279	21.9	782	21.5	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	4.820	0.7	155649	1.3	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	1953.096	2.3	12524840	2.6	0	
Sn	118	1	No Gas	0.113	5.1	2494	2.6	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.278	12.1	4097	9.9	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.703	5.1	5048	4.2	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.010	35.8	493	19.3	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.012	34.0	263	15.3	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.190	5.9	7211	3.6	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.008	9.1	277	8.3	0	ICSA Main CR1 Failed
Ca	43	2	He	98567.826	2.4	249312	2.1	0	
Sb	121	2	He	0.250	5.6	1700	5.1	0	ICSA Main CR1 Failed
Ti	47	2	He	2059.324	1.4	495737	1.1	0	
Se	82	1	No Gas	-0.483	-45.7	-29	-139.4	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1092605	1.48	1128564	96.81	70	120	
Ge	72	2	He	713833	0.96	756957	94.30	70	120	
Ge	72	1	No Gas	2529666	1.37	2681640	94.33	70	120	
In	115	1	No Gas	2871786	0.56	3115345	92.18	70	120	
Bi	209	1	No Gas	2234380	1.49	2561633	87.22	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	029ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:02:34-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	016CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	95.860	2.076	1363604	0.78	100	95.9	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	97.573	1.648	328582	0.93	100	97.6	80	120	
V	51	2	He	106.017	0.217	632287	0.58	100	106.0	80	120	
Cr	52	2	He	102.969	0.053	714263	0.78	100	103.0	80	120	
Fe	56	2	He	110153.189	0.734	651752537	1.52	100	110153.2	80	120	
Se	78	2	He	106.848	2.891	9414	2.05	100	106.8	80	120	
As	75	2	He	105.044	0.675	92129	0.68	100	105.0	80	120	
Ca	44	2	He	108820.830	1.554	4664996	1.13	100	108820.8	80	120	ICSB Main CR1 Failed
Na	23	2	He	113384.180	0.850	120862622	0.13	100	113384.2	80	120	ICSB Main CR1 Failed
Mg	24	2	He	113864.971	1.271	70262067	0.70	100	113865.0	80	120	ICSB Main CR1 Failed
K	39	2	He	114438.574	1.532	94662819	1.08	100	114438.6	80	120	ICSB Main CR1 Failed
Mn	55	2	He	104.589	0.287	530010	0.80	100	104.6	80	120	
Co	59	2	He	101.351	0.456	939281	0.43	100	101.4	80	120	
Ni	60	2	He	100.444	0.347	226873	1.13	100	100.4	80	120	
Cu	63	2	He	99.378	0.935	567659	0.27	100	99.4	80	120	
Zn	66	2	He	103.643	0.836	113498	0.94	100	103.6	80	120	
Al	27	2	He	104082.172	0.280	40179180	0.72	100	104082.2	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	485.507	3.298	946781	2.03	100	485.5	80	120	
Al	27	1	No Gas	98507.476	0.837	1446950858	1.18	100	98507.5	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	534.332	1.344	4137942	1.46	100	534.3	80	120	
Ag	107	1	No Gas	93.869	3.220	1436567	1.75	100	93.9	80	120	
Cd	111	1	No Gas	100.269	1.586	278183	0.90	100	100.3	80	120	
Sr	88	1	No Gas	109.416	2.191	3453400	0.75	100	109.4	80	120	
Mo	95	1	No Gas	2110.364	1.368	13316088	1.12	100	2110.4	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	101.582	1.498	976552	1.09	100	101.6	80	120	
Sb	121	1	No Gas	100.642	1.943	1332317	0.97	100	100.6	80	120	
Ba	137	1	No Gas	106.183	1.659	539600	0.79	100	106.2	80	120	
Tl	205	1	No Gas	102.862	2.662	2337231	2.06	100	102.9	80	120	
Tl	203	1	No Gas	103.898	2.166	1000789	1.50	100	103.9	80	120	
Pb	208	1	No Gas	106.333	1.589	3409038	0.41	100	106.3	80	120	
U	238	1	No Gas	109.908	1.700	3440721	2.07	100	109.9	80	120	
Ca	43	2	He	111772.000	0.752	283765	1.41	100	111772.0	80	120	ICSB Main CR1 Failed
Sb	121	2	He	100.807	0.381	608143	0.94	100	100.8	80	120	
Ti	47	2	He	2228.381	0.843	538397	0.45	100	2228.4	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	100.822	1.615	1134169	0.93	100	100.8	80	120	
Se	82	1	No Gas	105.190	2.427	20009	2.91	100	105.2	80	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1109928	1.28	1128564	98.35	70	120	
Ge	72	2	He	716433	0.79	756957	94.65	70	120	
Ge	72	1	No Gas	2544183	1.00	2681640	94.87	70	120	
In	115	1	No Gas	2826403	2.45	3115345	90.73	70	120	
Bi	209	1	No Gas	2176925	1.19	2561633	84.98	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	032_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:13:45-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	016CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	101.534	4.964	1438157	3.36	100	101.5	90	110	
Be	9	1	No Gas	99.576	0.958	334923	0.48	100	99.6	90	110	
V	51	2	He	103.107	0.748	644803	0.52	100	103.1	90	110	
Cr	52	2	He	101.247	0.558	736631	0.77	100	101.2	90	110	
Fe	56	2	He	10089.505	0.475	62607604	0.73	10000	100.9	90	110	
Se	78	2	He	101.270	0.205	9365	0.39	100	101.3	90	110	
As	75	2	He	101.971	1.012	93777	0.75	100	102.0	90	110	
Ca	44	2	He	10116.125	0.182	455541	0.37	10000	101.2	90	110	
Na	23	2	He	10204.509	1.940	11448827	1.68	10000	102.0	90	110	
Mg	24	2	He	10318.739	1.788	6676691	1.60	10000	103.2	90	110	
K	39	2	He	10283.042	1.738	8980088	1.65	10000	102.8	90	110	
Mn	55	2	He	102.359	0.664	543934	0.87	100	102.4	90	110	
Co	59	2	He	100.746	0.879	978952	0.75	100	100.7	90	110	
Ni	60	2	He	102.755	0.715	243327	0.51	100	102.8	90	110	
Cu	63	2	He	104.092	0.149	623311	0.24	100	104.1	90	110	
Zn	66	2	He	102.316	0.846	117495	1.06	100	102.3	90	110	
Al	27	2	He	101.155	0.618	41870	0.54	100	101.2	90	110	
B	11	1	No Gas	494.020	2.174	962166	1.10	500	98.8	90	110	
Al	27	1	No Gas	101.364	1.523	1581390	0.87	100	101.4	90	110	
Si	28	1	No Gas	504.459	1.704	4092113	0.56	5000	10.1	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	103.759	0.497	1708493	1.05	100	103.8	90	110	
Cd	111	1	No Gas	101.658	1.393	303383	1.24	100	101.7	90	110	
Sr	88	1	No Gas	102.988	1.551	3496742	0.75	100	103.0	90	110	
Mo	95	1	No Gas	101.428	1.951	688512	1.41	100	101.4	90	110	
Sn	118	1	No Gas	101.453	1.473	1049061	0.66	100	101.5	90	110	
Sb	121	1	No Gas	101.343	1.680	1399409	0.30	100	101.3	90	110	
Ba	137	1	No Gas	99.854	1.547	545918	0.79	100	99.9	90	110	
Tl	205	1	No Gas	103.094	3.947	2635084	1.62	100	103.1	90	110	
Tl	203	1	No Gas	101.537	3.183	1100452	1.99	100	101.5	90	110	
Pb	208	1	No Gas	102.779	2.644	3707429	0.28	100	102.8	90	110	
U	238	1	No Gas	101.588	2.376	3577974	0.85	100	101.6	90	110	
Ca	43	2	He	9851.659	2.582	26269	2.68	10000	98.5	90	110	
Sb	121	2	He	99.374	0.956	628554	0.75	100	99.4	90	110	
Ti	47	2	He	100.853	1.692	25564	1.43	100	100.9	90	110	
Cu	63	1	No Gas	102.753	1.949	1205520	0.71	100	102.8	90	110	
Se	82	1	No Gas	102.858	3.377	20404	2.03	100	102.9	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1108565	1.42	1128564	98.23	70	120	
Ge	72	2	He	751166	0.26	756957	99.24	70	120	
Ge	72	1	No Gas	2653903	1.41	2681640	98.97	70	120	
In	115	1	No Gas	3039663	0.81	3115345	97.57	70	120	
Bi	209	1	No Gas	2450251	2.91	2561633	95.65	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	033_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:15:38-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	016CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.113	51.7	71269	1.8	0.5	
Be	9	1	No Gas	0.007	58.9	30	44.1	0.5	
V	51	2	He	-0.074	-10.5	1719	2.2	2.5	
Cr	52	2	He	0.183	43.8	16791	2.4	2.5	
Fe	56	2	He	1.833	3.7	31467	2.4	100	
Se	78	2	He	0.013	2537.0	173	16.4	2	
As	75	2	He	-0.015	-367.5	228	22.4	2.5	
Ca	44	2	He	4.077	85.5	1103	13.5	100	
Na	23	2	He	3.727	26.1	52823	1.4	100	
Mg	24	2	He	1.064	10.4	1180	5.2	100	
K	39	2	He	4.331	31.0	71742	1.4	100	
Mn	55	2	He	-0.027	-64.5	3250	2.0	2.5	
Co	59	2	He	0.008	99.5	300	25.2	2.5	
Ni	60	2	He	0.069	44.7	590	12.2	2.5	
Cu	63	2	He	0.011	109.1	2794	3.3	2	
Zn	66	2	He	0.317	21.8	1540	5.8	2.5	
Al	27	2	He	1.508	47.0	1557	19.8	5	
B	11	1	No Gas	11.578	9.8	30383	7.2	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	2.085	4.5	61567	1.0	5	
Si	28	1	No Gas	1.020	64.5	327860	0.5	10	
Ag	107	1	No Gas	0.014	39.3	390	22.8	2.5	
Cd	111	1	No Gas	0.011	100.4	31	114.5	1	
Sr	88	1	No Gas	0.035	5.2	2417	2.1	2.5	
Mo	95	1	No Gas	0.069	15.0	627	11.3	2.5	
Sn	118	1	No Gas	0.183	46.0	3506	26.2	5	
Sb	121	1	No Gas	0.170	18.3	2857	14.3	2.5	
Ba	137	1	No Gas	-0.092	-40.5	1047	19.0	2.5	
Tl	205	1	No Gas	0.120	27.5	3454	26.5	1	
Tl	203	1	No Gas	0.107	44.4	1370	41.1	1	
Pb	208	1	No Gas	0.034	21.1	2360	12.5	2.5	
U	238	1	No Gas	0.018	44.9	693	44.7	2.5	
Ca	43	2	He	1.103	689.4	53	39.0	100	
Sb	121	2	He	0.127	26.5	1023	22.2	2.5	
Ti	47	2	He	0.039	149.9	27	57.3	2.5	
Cu	63	1	No Gas	-0.015	-250.6	5681	8.0	2.5	
Se	82	1	No Gas	-0.188	-113.7	28	155.4	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1144654	1.41	1128564	101.43	70	120	
Ge	72	2	He	759040	1.03	756957	100.28	70	120	
Ge	72	1	No Gas	2705420	1.47	2681640	100.89	70	120	
In	115	1	No Gas	3169573	1.28	3115345	101.74	70	120	
Bi	209	1	No Gas	2536300	2.22	2561633	99.01	70	120	

Sample Report

Sample Table

Sample Name	MBLK-191406
Data File Name	034SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:18:37-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 191406
ISTD Ref FileName	016CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	0.069	0.069	99.35	70263	0.00	2000	
Be	9	1	No Gas	0.001	0.001	155.16	12	0.01	2000	
V	51	2	He	-0.061	-0.061	-11.10	1795	0.00	2000	
Cr	52	2	He	0.162	0.162	10.64	16550	0.00	2000	
Fe	56	2	He	0.751	0.751	6.46	24542	0.00	200000	
Se	78	2	He	-0.088	-0.088	-155.07	163	-0.05	2000	
As	75	2	He	-0.056	-0.056	-62.27	189	-0.03	2000	
Ca	44	2	He	2.865	2.865	79.32	1043	0.27	200000	
Na	23	2	He	4.940	4.940	5.68	53891	0.01	200000	
Mg	24	2	He	0.735	0.735	21.84	960	0.08	200000	
K	39	2	He	1.145	1.145	102.63	68567	0.00	200000	
Mn	55	2	He	-0.104	-0.104	-11.05	2827	0.00	2000	
Co	59	2	He	0.003	0.003	199.86	253	0.00	2000	
Ni	60	2	He	0.048	0.048	83.97	537	0.01	2000	
Cu	63	2	He	-0.008	-0.008	-243.49	2660	0.00	2000	
Zn	66	2	He	0.182	0.182	63.15	1377	0.01	2000	
Al	27	2	He	0.123	0.123	336.40	983	0.01	2000	
B	11	1	No Gas	4.408	4.408	9.89	15979	0.03	2000	
Al	27	1	No Gas	0.180	0.180	42.69	31533	0.00	2000	
Si	28	1	No Gas	3.297	3.297	34.31	342085	0.00	2000	
Ag	107	1	No Gas	0.003	0.003	33.63	210	0.00	2000	
Cd	111	1	No Gas	0.000	0.000	-1850.43	-5	0.00	2000	
Sr	88	1	No Gas	0.001	0.001	352.61	1197	0.00	2000	
Mo	95	1	No Gas	0.028	0.028	35.89	330	0.01	2000	
Sn	118	1	No Gas	0.190	0.190	2.42	3484	0.01	2000	
Sb	121	1	No Gas	0.041	0.041	8.49	1030	0.00	2000	
Ba	137	1	No Gas	-0.232	-0.232	-3.22	247	-0.09	2000	
Tl	205	1	No Gas	0.012	0.012	43.37	607	0.00	2000	
Tl	203	1	No Gas	0.006	0.006	24.36	233	0.00	2000	
Pb	208	1	No Gas	0.008	0.008	25.05	1380	0.00	2000	
U	238	1	No Gas	0.002	0.002	36.32	113	0.00	2000	
Ca	43	2	He	-6.225	-6.225	-183.85	33	-18.68	200000	
Sb	121	2	He	0.042	0.042	24.73	473	0.01	2000	
Ti	47	2	He	-0.012	-0.012	-374.03	13	-0.09	2000	
Cu	63	1	No Gas	-0.010	-0.010	-227.71	5678	0.00	2000	
Zn	66	1	No Gas	0.186	0.186	14.55	3821	0.00	2000	
Se	82	1	No Gas	-0.407	-0.407	-140.10	-16	2.59	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1138501	1.49	1128564	100.88	70	120	
Ge	72	2	He	754737	0.31	756957	99.71	70	120	

Sample Report

Ge	72	1	No Gas	2680834	1.41	2681640	99.97	70	120	
In	115	1	No Gas	3078943	0.36	3115345	98.83	70	120	
Bi	209	1	No Gas	2560131	1.05	2561633	99.94	70	120	

Sample Report

Sample Table

Sample Name	LCS-191406
Data File Name	035SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:20:36-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 191406
ISTD Ref FileName	016CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	-0.001	-0.001	-7773.51	71733	0.00	2000	
Be	9	1	No Gas	49.548	49.548	1.33	177176	0.03	2000	
V	51	2	He	51.360	51.360	1.52	330641	0.02	2000	
Cr	52	2	He	48.940	48.940	1.83	373413	0.01	2000	
Fe	56	2	He	5006.140	5006.140	0.92	31880983	0.02	200000	
Se	78	2	He	51.610	51.610	1.44	4983	1.04	2000	
As	75	2	He	51.371	51.371	0.24	48594	0.11	2000	
Ca	44	2	He	4936.426	4936.426	0.94	228548	2.16	200000	
Na	23	2	He	5036.711	5036.711	2.11	5822434	0.09	200000	
Mg	24	2	He	5158.019	5158.019	1.46	3424552	0.15	200000	
K	39	2	He	5054.661	5054.661	1.22	4563914	0.11	200000	
Mn	55	2	He	51.133	51.133	0.86	280500	0.02	2000	
Co	59	2	He	50.502	50.502	1.66	503570	0.01	2000	
Ni	60	2	He	52.165	52.165	1.41	126951	0.04	2000	
Cu	63	2	He	52.282	52.282	0.48	322583	0.02	2000	
Zn	66	2	He	53.467	53.467	0.89	63565	0.08	2000	
Al	27	2	He	107.966	107.966	1.98	45792	0.24	2000	
B	11	1	No Gas	1.972	1.972	6.14	11541	0.02	2000	
Al	27	1	No Gas	107.488	107.488	2.80	1715078	0.01	2000	
Si	28	1	No Gas	79.895	79.895	4.94	933987	0.01	2000	
Ag	107	1	No Gas	50.306	50.306	0.06	853008	0.01	2000	
Cd	111	1	No Gas	51.264	51.264	1.08	157524	0.03	2000	
Sr	88	1	No Gas	0.085	0.085	3.43	4131	0.00	2000	
Mo	95	1	No Gas	49.026	49.026	0.26	342772	0.01	2000	
Sn	118	1	No Gas	0.032	0.032	24.84	1864	0.00	2000	
Sb	121	1	No Gas	51.791	51.791	2.33	732446	0.01	2000	
Ba	137	1	No Gas	50.406	50.406	0.79	284546	0.02	2000	
Tl	205	1	No Gas	42.591	42.591	2.30	1123316	0.00	2000	
Tl	203	1	No Gas	44.222	44.222	2.35	494418	0.01	2000	
Pb	208	1	No Gas	51.748	51.748	1.88	1925987	0.00	2000	
U	238	1	No Gas	0.004	0.004	16.38	163	0.00	2000	
Ca	43	2	He	4841.731	4841.731	2.58	13270	36.49	200000	
Sb	121	2	He	50.565	50.565	1.12	328245	0.02	2000	
Ti	47	2	He	48.829	48.829	4.06	12709	0.38	2000	
Cu	63	1	No Gas	53.362	53.362	1.83	643884	0.01	2000	
Zn	66	1	No Gas	54.626	54.626	1.61	177621	0.03	2000	
Se	82	1	No Gas	52.526	52.526	1.87	10703	0.49	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1178468	0.57	1128564	104.42	70	120	
Ge	72	2	He	770713	0.86	756957	101.82	70	120	
Ge	72	1	No Gas	2717864	2.70	2681640	101.35	70	120	
In	115	1	No Gas	3129893	0.93	3115345	100.47	70	120	

Sample Report

Bi	209	1	No Gas	2526453	1.19	2561633	98.63	70	120	

Sample Report

Sample Table

Sample Name	HS23031291-01
Data File Name	036SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:22:33-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 191406
ISTD Ref FileName	016CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	27.062	27.062	0.58	451388	0.01	2000	
Be	9	1	No Gas	0.008	0.008	13.34	33	0.02	2000	
V	51	2	He	0.041	0.041	9.70	2299	0.00	2000	
Cr	52	2	He	-0.461	-0.461	-4.00	11445	0.00	2000	
Fe	56	2	He	316.330	316.330	1.31	1885743	0.02	200000	
Se	78	2	He	0.444	0.444	55.35	200	0.22	2000	
As	75	2	He	0.360	0.360	14.82	541	0.07	2000	
Ca	44	2	He	12488.493	12488.493	0.30	534856	2.33	200000	
Na	23	2	He	550269.825	550269.825	1.04	584977058	0.09	200000	>LDR
Mg	24	2	He	11955.793	11955.793	0.52	7360352	0.16	200000	
K	39	2	He	1861.137	1861.137	0.51	1598780	0.12	200000	
Mn	55	2	He	64.808	64.808	0.39	328829	0.02	2000	
Co	59	2	He	0.558	0.558	6.03	5368	0.01	2000	
Ni	60	2	He	3.503	3.503	5.79	8279	0.04	2000	
Cu	63	2	He	2.886	2.886	5.57	18940	0.02	2000	
Zn	66	2	He	11.120	11.120	2.15	13137	0.08	2000	
Al	27	2	He	12.476	12.476	12.71	5689	0.22	2000	
B	11	1	No Gas	32.481	32.481	1.87	72809	0.04	2000	
Al	27	1	No Gas	12.273	12.273	6.09	205950	0.01	2000	
Si	28	1	No Gas	10352.341	10352.341	1.00	74040381	0.01	2000	>LDR
Ag	107	1	No Gas	0.064	0.064	2.07	1130	0.01	2000	
Cd	111	1	No Gas	0.021	0.021	25.35	56	0.04	2000	
Sr	88	1	No Gas	292.079	292.079	1.38	9337747	0.00	2000	
Mo	95	1	No Gas	0.398	0.398	4.29	2674	0.01	2000	
Sn	118	1	No Gas	0.144	0.144	30.91	2791	0.01	2000	
Sb	121	1	No Gas	0.188	0.188	10.02	2904	0.01	2000	
Ba	137	1	No Gas	92.410	92.410	1.59	475899	0.02	2000	
Tl	205	1	No Gas	0.335	0.335	46.87	7813	0.00	2000	
Tl	203	1	No Gas	0.315	0.315	46.61	3157	0.01	2000	
Pb	208	1	No Gas	0.123	0.123	8.77	4857	0.00	2000	
U	238	1	No Gas	0.033	0.033	28.63	1053	0.00	2000	
Ca	43	2	He	12603.921	12603.921	2.30	31961	39.44	200000	
Sb	121	2	He	0.157	0.157	24.50	1143	0.01	2000	
Ti	47	2	He	1.429	1.429	17.90	360	0.40	2000	
Cu	63	1	No Gas	7.980	7.980	2.35	94078	0.01	2000	
Zn	66	1	No Gas	11.213	11.213	0.18	36285	0.03	2000	
Se	82	1	No Gas	0.649	0.649	60.90	184	0.35	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1155687	2.14	1128564	102.40	70	120	
Ge	72	2	He	714683	0.26	756957	94.42	70	120	
Ge	72	1	No Gas	2523877	1.24	2681640	94.12	70	120	
In	115	1	No Gas	2863055	2.22	3115345	91.90	70	120	
Bi	209	1	No Gas	2168079	1.57	2561633	84.64	70	120	

Sample Report

Sample Table

Sample Name	HS23031291-01SD
Data File Name	037SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:24:33-05:00
Sample Type	Sample
Dilution	5
Comment	TW DOD B 191406
ISTD Ref FileName	016CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	6.018	30.088	3.09	152759	0.00	2000	
Be	9	1	No Gas	0.002	0.010	44.15	13	0.01	2000	
V	51	2	He	0.201	1.003	8.12	3305	0.01	2000	
Cr	52	2	He	0.121	0.607	67.08	15659	0.00	2000	
Fe	56	2	He	64.618	323.088	0.08	407121	0.02	200000	
Se	78	2	He	-0.035	-0.176	-202.62	161	-0.02	2000	
As	75	2	He	0.059	0.293	25.91	283	0.02	2000	
Ca	44	2	He	2461.220	12306.098	1.07	107941	2.28	200000	
Na	23	2	He	107250.288	536251.438	0.68	116028318	0.09	200000	
Mg	24	2	He	2391.253	11956.264	1.26	1497954	0.16	200000	
K	39	2	He	370.267	1851.334	0.57	375736	0.10	200000	
Mn	55	2	He	12.951	64.753	0.67	69453	0.02	2000	
Co	59	2	He	0.108	0.542	7.78	1233	0.01	2000	
Ni	60	2	He	0.638	3.189	4.70	1867	0.03	2000	
Cu	63	2	He	0.548	2.738	6.20	5771	0.01	2000	
Zn	66	2	He	2.371	11.854	8.57	3734	0.06	2000	
Al	27	2	He	2.301	11.504	23.75	1800	0.13	2000	
B	11	1	No Gas	7.966	39.829	1.51	23051	0.03	2000	
Al	27	1	No Gas	2.679	13.397	1.03	67618	0.00	2000	
Si	28	1	No Gas	1994.026	9970.129	0.80	14834212	0.01	2000	>LDR
Ag	107	1	No Gas	0.005	0.024	45.72	223	0.00	2000	
Cd	111	1	No Gas	0.009	0.047	84.21	23	0.04	2000	
Sr	88	1	No Gas	57.886	289.430	1.23	1922622	0.00	2000	
Mo	95	1	No Gas	0.083	0.415	17.63	683	0.01	2000	
Sn	118	1	No Gas	0.142	0.708	10.47	2874	0.00	2000	
Sb	121	1	No Gas	0.048	0.240	21.08	1090	0.00	2000	
Ba	137	1	No Gas	17.713	88.565	0.48	95926	0.02	2000	
Tl	205	1	No Gas	0.034	0.171	35.69	1070	0.00	2000	
Tl	203	1	No Gas	0.027	0.137	21.65	420	0.01	2000	
Pb	208	1	No Gas	0.032	0.162	17.46	2063	0.00	2000	
U	238	1	No Gas	0.007	0.034	26.50	247	0.00	2000	
Ca	43	2	He	2580.081	12900.404	3.72	6695	38.54	200000	
Sb	121	2	He	0.039	0.196	39.72	440	0.01	2000	
Ti	47	2	He	0.194	0.968	11.49	63	0.31	2000	
Cu	63	1	No Gas	1.443	7.215	3.63	21978	0.01	2000	
Zn	66	1	No Gas	2.434	12.168	7.20	10498	0.02	2000	
Se	82	1	No Gas	-0.370	-1.851	-167.50	-9	4.00	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1138394	0.58	1128564	100.87	70	120	
Ge	72	2	He	727090	0.84	756957	96.05	70	120	
Ge	72	1	No Gas	2581606	0.91	2681640	96.27	70	120	
In	115	1	No Gas	2972771	1.34	3115345	95.42	70	120	
Bi	209	1	No Gas	2286049	0.98	2561633	89.24	70	120	

Sample Report

Sample Table

Sample Name	HS23031291-01MS
Data File Name	038SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:26:32-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 191406
ISTD Ref FileName	016CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	27.479	27.479	1.95	452416	0.01	2000	
Be	9	1	No Gas	48.625	48.625	1.64	168718	0.03	2000	
V	51	2	He	50.987	50.987	0.22	305445	0.02	2000	
Cr	52	2	He	47.082	47.082	0.82	334839	0.01	2000	
Fe	56	2	He	5063.153	5063.153	0.57	30002645	0.02	200000	
Se	78	2	He	41.257	41.257	1.83	3739	1.10	2000	
As	75	2	He	51.421	51.421	1.07	45259	0.11	2000	
Ca	44	2	He	17541.045	17541.045	0.72	753423	2.33	200000	
Na	23	2	He	546957.607	546957.607	0.48	583418978	0.09	200000	>LDR
Mg	24	2	He	16783.151	16783.151	0.60	10367038	0.16	200000	
K	39	2	He	6871.465	6871.465	0.52	5750048	0.12	200000	
Mn	55	2	He	112.373	112.373	0.26	569746	0.02	2000	
Co	59	2	He	47.957	47.957	0.45	444988	0.01	2000	
Ni	60	2	He	49.214	49.214	1.50	111464	0.04	2000	
Cu	63	2	He	48.112	48.112	0.39	276419	0.02	2000	
Zn	66	2	He	60.322	60.322	1.25	66586	0.09	2000	
Al	27	2	He	107.748	107.748	0.86	42519	0.25	2000	
B	11	1	No Gas	31.500	31.500	1.82	70095	0.04	2000	
Al	27	1	No Gas	105.315	105.315	0.11	1543918	0.01	2000	
Si	28	1	No Gas	10411.788	10411.788	1.51	73614047	0.01	2000	>LDR
Ag	107	1	No Gas	45.472	45.472	1.53	690057	0.01	2000	
Cd	111	1	No Gas	47.604	47.604	1.07	130926	0.04	2000	
Sr	88	1	No Gas	287.108	287.108	3.43	8980985	0.00	2000	
Mo	95	1	No Gas	50.156	50.156	1.62	313837	0.02	2000	
Sn	118	1	No Gas	0.062	0.062	4.76	1947	0.00	2000	
Sb	121	1	No Gas	48.547	48.547	1.14	630564	0.01	2000	
Ba	137	1	No Gas	139.808	139.808	1.83	703854	0.02	2000	
Tl	205	1	No Gas	44.268	44.268	1.02	954470	0.00	2000	
Tl	203	1	No Gas	43.855	43.855	1.59	400848	0.01	2000	
Pb	208	1	No Gas	52.085	52.085	1.26	1584732	0.00	2000	
U	238	1	No Gas	0.031	0.031	10.03	930	0.00	2000	
Ca	43	2	He	17613.240	17613.240	0.15	44797	39.32	200000	
Sb	121	2	He	48.383	48.383	0.36	292257	0.02	2000	
Ti	47	2	He	51.153	51.153	2.51	12386	0.41	2000	
Cu	63	1	No Gas	55.533	55.533	1.38	615101	0.01	2000	
Zn	66	1	No Gas	59.978	59.978	1.75	178766	0.03	2000	
Se	82	1	No Gas	42.030	42.030	2.77	7877	0.53	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1143634	1.48	1128564	101.34	70	120	
Ge	72	2	He	717099	0.41	756957	94.73	70	120	
Ge	72	1	No Gas	2495214	1.08	2681640	93.05	70	120	
In	115	1	No Gas	2801384	0.94	3115345	89.92	70	120	
Bi	209	1	No Gas	2065340	1.49	2561633	80.63	70	120	

Sample Report

Sample Table

Sample Name	HS23031291-01MSD
Data File Name	039SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:28:31-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 191406
ISTD Ref FileName	016CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	27.945	27.945	1.24	468307	0.01	2000	
Be	9	1	No Gas	49.572	49.572	1.36	175513	0.03	2000	
V	51	2	He	49.661	49.661	0.46	306808	0.02	2000	
Cr	52	2	He	45.879	45.879	1.49	336817	0.01	2000	
Fe	56	2	He	4922.152	4922.152	1.34	30075184	0.02	200000	
Se	78	2	He	39.548	39.548	3.38	3702	1.07	2000	
As	75	2	He	49.800	49.800	0.77	45200	0.11	2000	
Ca	44	2	He	17378.518	17378.518	0.66	769668	2.26	200000	
Na	23	2	He	544663.628	544663.628	0.37	599035311	0.09	200000	>LDR
Mg	24	2	He	16739.684	16739.684	0.52	10661575	0.16	200000	
K	39	2	He	6757.733	6757.733	2.32	5832042	0.12	200000	
Mn	55	2	He	111.095	111.095	0.94	580830	0.02	2000	
Co	59	2	He	46.211	46.211	0.48	442114	0.01	2000	
Ni	60	2	He	48.537	48.537	0.87	113352	0.04	2000	
Cu	63	2	He	46.973	46.973	1.04	278327	0.02	2000	
Zn	66	2	He	58.729	58.729	1.22	66868	0.09	2000	
Al	27	2	He	109.816	109.816	1.35	44666	0.25	2000	
B	11	1	No Gas	32.140	32.140	1.06	72843	0.04	2000	
Al	27	1	No Gas	110.367	110.367	1.17	1638380	0.01	2000	
Si	28	1	No Gas	10854.070	10854.070	1.64	77762509	0.01	2000	>LDR
Ag	107	1	No Gas	45.687	45.687	1.70	691577	0.01	2000	
Cd	111	1	No Gas	48.186	48.186	0.38	132219	0.04	2000	
Sr	88	1	No Gas	293.201	293.201	2.09	9149247	0.00	2000	
Mo	95	1	No Gas	49.439	49.439	2.18	308550	0.02	2000	
Sn	118	1	No Gas	0.066	0.066	15.78	1987	0.00	2000	
Sb	121	1	No Gas	48.930	48.930	0.99	644123	0.01	2000	
Ba	137	1	No Gas	143.668	143.668	2.39	721360	0.02	2000	
Tl	205	1	No Gas	44.097	44.097	2.34	961024	0.00	2000	
Tl	203	1	No Gas	43.676	43.676	2.29	403523	0.01	2000	
Pb	208	1	No Gas	51.058	51.058	2.38	1570218	0.00	2000	
U	238	1	No Gas	0.032	0.032	15.15	993	0.00	2000	
Ca	43	2	He	17471.153	17471.153	1.93	45820	38.13	200000	
Sb	121	2	He	46.904	46.904	0.49	292131	0.02	2000	
Ti	47	2	He	50.902	50.902	2.10	12709	0.40	2000	
Cu	63	1	No Gas	55.747	55.747	0.25	625812	0.01	2000	
Zn	66	1	No Gas	60.635	60.635	0.72	183136	0.03	2000	
Se	82	1	No Gas	41.587	41.587	8.21	7897	0.53	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1166976	1.58	1128564	103.40	70	120	
Ge	72	2	He	739384	0.57	756957	97.68	70	120	
Ge	72	1	No Gas	2528800	0.95	2681640	94.30	70	120	
In	115	1	No Gas	2794820	2.40	3115345	89.71	70	120	
Bi	209	1	No Gas	2088190	2.63	2561633	81.52	70	120	

Sample Report

Sample Table

Sample Name	HS23031291-01PDS
Data File Name	040SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:30:29-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 191406
ISTD Ref FileName	016CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	28.044	28.044	1.13	465840	0.01	2000	
Be	9	1	No Gas	106.635	106.635	0.72	374447	0.03	2000	
V	51	2	He	105.149	105.149	1.05	655775	0.02	2000	
Cr	52	2	He	98.001	98.001	0.99	711587	0.01	2000	
Fe	56	2	He	10113.224	10113.224	0.81	62585786	0.02	200000	
Se	78	2	He	104.574	104.574	0.54	9639	1.08	2000	
As	75	2	He	104.004	104.004	0.81	95388	0.11	2000	
Ca	44	2	He	22167.505	22167.505	1.44	994463	2.23	200000	
Na	23	2	He	545499.500	545499.500	0.53	607879591	0.09	200000	>LDR
Mg	24	2	He	22166.051	22166.051	1.00	14303651	0.15	200000	
K	39	2	He	12337.198	12337.198	2.35	10731519	0.11	200000	
Mn	55	2	He	166.700	166.700	0.95	881350	0.02	2000	
Co	59	2	He	97.230	97.230	0.86	942264	0.01	2000	
Ni	60	2	He	99.902	99.902	0.71	235950	0.04	2000	
Cu	63	2	He	98.272	98.272	0.44	587032	0.02	2000	
Zn	66	2	He	110.536	110.536	0.96	126499	0.09	2000	
Al	27	2	He	116.527	116.527	0.92	47963	0.24	2000	
B	11	1	No Gas	31.996	31.996	0.71	71938	0.04	2000	
Al	27	1	No Gas	116.447	116.447	2.79	1733839	0.01	2000	
Si	28	1	No Gas	10730.945	10730.945	0.80	77212424	0.01	2000	>LDR
Ag	107	1	No Gas	73.343	73.343	1.59	1107401	0.01	2000	
Cd	111	1	No Gas	100.566	100.566	1.18	275205	0.04	2000	
Sr	88	1	No Gas	290.700	290.700	1.16	9049125	0.00	2000	
Mo	95	1	No Gas	103.674	103.674	1.08	645350	0.02	2000	
Sn	118	1	No Gas	0.058	0.058	10.59	1904	0.00	2000	
Sb	121	1	No Gas	96.443	96.443	2.54	1274138	0.01	2000	
Ba	137	1	No Gas	193.928	193.928	1.13	970946	0.02	2000	
Tl	205	1	No Gas	104.183	104.183	2.45	2282778	0.00	2000	
Tl	203	1	No Gas	107.131	107.131	1.69	995146	0.01	2000	
Pb	208	1	No Gas	102.153	102.153	2.91	3158073	0.00	2000	
U	238	1	No Gas	0.035	0.035	13.75	1070	0.00	2000	
Ca	43	2	He	22811.387	22811.387	0.45	60597	37.64	200000	
Sb	121	2	He	97.280	97.280	1.10	613672	0.02	2000	
Ti	47	2	He	106.796	106.796	2.63	26997	0.40	2000	
Cu	63	1	No Gas	106.825	106.825	0.45	1199184	0.01	2000	
Zn	66	1	No Gas	111.087	111.087	0.99	334346	0.03	2000	
Se	82	1	No Gas	104.312	104.312	2.08	19806	0.53	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1157209	0.70	1128564	102.54	70	120	
Ge	72	2	He	749156	0.21	756957	98.97	70	120	
Ge	72	1	No Gas	2539351	1.93	2681640	94.69	70	120	
In	115	1	No Gas	2787186	0.21	3115345	89.47	70	120	
Bi	209	1	No Gas	2099402	1.37	2561633	81.96	70	120	

Sample Report

Sample Table

Sample Name	HS23031291-01MSD
Data File Name	042SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:35:29-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 191406
ISTD Ref FileName	016CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	27.217	27.217	0.24	445623	0.01	2000	
Be	9	1	No Gas	50.020	50.020	0.69	172342	0.03	2000	
V	51	2	He	50.107	50.107	0.65	304260	0.02	2000	
Cr	52	2	He	46.027	46.027	0.85	332079	0.01	2000	
Fe	56	2	He	4956.435	4956.435	0.70	29766100	0.02	200000	
Se	78	2	He	40.858	40.858	2.58	3754	1.09	2000	
As	75	2	He	50.463	50.463	1.14	45019	0.11	2000	
Ca	44	2	He	17387.721	17387.721	0.43	756930	2.30	200000	
Na	23	2	He	542794.782	542794.782	0.47	586797071	0.09	200000	>LDR
Mg	24	2	He	16459.622	16459.622	0.54	10304215	0.16	200000	
K	39	2	He	6804.446	6804.446	0.59	5771365	0.12	200000	
Mn	55	2	He	112.299	112.299	0.79	577063	0.02	2000	
Co	59	2	He	46.590	46.590	0.55	438138	0.01	2000	
Ni	60	2	He	49.135	49.135	0.39	112787	0.04	2000	
Cu	63	2	He	46.650	46.650	0.76	271712	0.02	2000	
Zn	66	2	He	58.513	58.513	1.73	65491	0.09	2000	
Al	27	2	He	109.492	109.492	2.41	43777	0.25	2000	
B	11	1	No Gas	31.136	31.136	0.89	68886	0.05	2000	
Al	27	1	No Gas	108.277	108.277	2.81	1587633	0.01	2000	
Si	28	1	No Gas	10545.594	10545.594	0.39	74625906	0.01	2000	>LDR
Ag	107	1	No Gas	44.775	44.775	2.34	675381	0.01	2000	
Cd	111	1	No Gas	46.468	46.468	1.45	127039	0.04	2000	
Sr	88	1	No Gas	284.560	284.560	1.99	8848952	0.00	2000	
Mo	95	1	No Gas	48.479	48.479	2.01	301523	0.02	2000	
Sn	118	1	No Gas	0.057	0.057	6.57	1890	0.00	2000	
Sb	121	1	No Gas	47.652	47.652	0.77	619557	0.01	2000	
Ba	137	1	No Gas	138.103	138.103	2.69	691095	0.02	2000	
Tl	205	1	No Gas	42.063	42.063	2.95	930019	0.00	2000	
Tl	203	1	No Gas	41.260	41.260	2.93	386739	0.01	2000	
Pb	208	1	No Gas	48.860	48.860	4.02	1524295	0.00	2000	
U	238	1	No Gas	0.032	0.032	11.36	987	0.00	2000	
Ca	43	2	He	17417.325	17417.325	0.57	44897	38.79	200000	
Sb	121	2	He	47.562	47.562	1.13	291180	0.02	2000	
Ti	47	2	He	52.278	52.278	2.62	12830	0.41	2000	
Cu	63	1	No Gas	54.571	54.571	0.53	605093	0.01	2000	
Zn	66	1	No Gas	58.765	58.765	1.82	175359	0.03	2000	
Se	82	1	No Gas	40.294	40.294	6.82	7557	0.53	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1135449	1.20	1128564	100.61	70	120	
Ge	72	2	He	726770	0.29	756957	96.01	70	120	
Ge	72	1	No Gas	2497348	1.46	2681640	93.13	70	120	
In	115	1	No Gas	2784628	1.07	3115345	89.38	70	120	
Bi	209	1	No Gas	2118532	2.17	2561633	82.70	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	044_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:41:52-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	016CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	105.929	1.079	1380850	0.87	100	105.9	90	110	
Be	9	1	No Gas	106.043	0.284	328784	0.37	100	106.0	90	110	
V	51	2	He	99.824	0.809	597204	0.27	100	99.8	90	110	
Cr	52	2	He	97.590	1.109	679675	0.67	100	97.6	90	110	
Fe	56	2	He	9854.288	2.319	58487082	1.85	10000	98.5	90	110	
Se	78	2	He	101.688	3.293	8994	2.68	100	101.7	90	110	
As	75	2	He	98.678	0.724	86813	0.38	100	98.7	90	110	
Ca	44	2	He	10103.354	0.540	435192	0.20	10000	101.0	90	110	
Na	23	2	He	9717.980	0.779	10431765	0.85	10000	97.2	90	110	
Mg	24	2	He	9762.708	0.882	6042819	1.40	10000	97.6	90	110	
K	39	2	He	10238.109	1.287	8552403	0.77	10000	102.4	90	110	
Mn	55	2	He	101.946	0.810	518200	0.37	100	101.9	90	110	
Co	59	2	He	96.910	1.076	900755	0.59	100	96.9	90	110	
Ni	60	2	He	98.146	0.295	222335	0.27	100	98.1	90	110	
Cu	63	2	He	99.225	0.250	568481	0.80	100	99.2	90	110	
Zn	66	2	He	99.694	1.367	109533	0.89	100	99.7	90	110	
Al	27	2	He	103.138	0.835	40820	1.37	100	103.1	90	110	
B	11	1	No Gas	476.591	2.361	855942	2.34	500	95.3	90	110	
Al	27	1	No Gas	101.923	0.389	1485183	1.69	100	101.9	90	110	
Si	28	1	No Gas	514.599	1.583	3893096	1.34	5000	10.3	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.105	0.317	1563466	0.39	100	100.1	90	110	
Cd	111	1	No Gas	97.373	0.841	275640	0.57	100	97.4	90	110	
Sr	88	1	No Gas	99.530	2.388	3205336	1.72	100	99.5	90	110	
Mo	95	1	No Gas	98.619	1.458	634995	0.79	100	98.6	90	110	
Sn	118	1	No Gas	98.157	0.668	962840	0.70	100	98.2	90	110	
Sb	121	1	No Gas	97.351	0.762	1255658	0.73	100	97.4	90	110	
Ba	137	1	No Gas	98.278	1.360	509706	1.46	100	98.3	90	110	
Tl	205	1	No Gas	98.651	2.812	2421585	2.05	100	98.7	90	110	
Tl	203	1	No Gas	100.259	1.581	1043417	1.56	100	100.3	90	110	
Pb	208	1	No Gas	99.181	1.940	3435332	1.18	100	99.2	90	110	
U	238	1	No Gas	98.012	1.073	3314820	1.46	100	98.0	90	110	
Ca	43	2	He	10172.655	1.002	25945	1.34	10000	101.7	90	110	
Sb	121	2	He	100.552	0.622	608392	1.15	100	100.6	90	110	
Ti	47	2	He	99.032	2.543	24011	2.09	100	99.0	90	110	
Cu	63	1	No Gas	101.436	3.190	1111497	2.22	100	101.4	90	110	
Se	82	1	No Gas	99.335	2.043	18408	0.60	100	99.3	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1021786	0.19	1128564	90.54	70	120	
Ge	72	2	He	718532	0.56	756957	94.92	70	120	
Ge	72	1	No Gas	2478682	1.43	2681640	92.43	70	120	
In	115	1	No Gas	2883201	0.67	3115345	92.55	70	120	
Bi	209	1	No Gas	2352222	2.50	2561633	91.83	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	045_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:43:46-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	016CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.286	54.6	68112	2.1	0.5	
Be	9	1	No Gas	0.017	35.5	62	33.8	0.5	
V	51	2	He	-0.019	-67.6	1992	3.4	2.5	
Cr	52	2	He	0.201	30.6	16340	2.0	2.5	
Fe	56	2	He	1.713	8.7	29653	3.4	100	
Se	78	2	He	0.033	891.0	169	15.5	2	
As	75	2	He	-0.017	-175.2	218	11.6	2.5	
Ca	44	2	He	6.568	112.6	1177	28.1	100	
Na	23	2	He	58.838	4.1	111066	2.1	100	
Mg	24	2	He	1.518	16.5	1427	11.2	100	
K	39	2	He	2.898	12.9	68057	1.1	100	
Mn	55	2	He	-0.056	-70.0	2990	7.0	2.5	
Co	59	2	He	0.013	39.9	343	14.7	2.5	
Ni	60	2	He	0.095	28.6	630	10.4	2.5	
Cu	63	2	He	-0.041	-61.8	2390	6.9	2	
Zn	66	2	He	0.356	33.7	1530	9.2	2.5	
Al	27	2	He	1.732	12.1	1590	5.8	5	
B	11	1	No Gas	10.876	7.0	26814	6.4	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	2.026	4.3	56147	2.1	5	
Si	28	1	No Gas	4.597	14.6	328794	1.0	10	
Ag	107	1	No Gas	0.013	12.9	347	8.8	2.5	
Cd	111	1	No Gas	0.006	91.6	13	122.0	1	
Sr	88	1	No Gas	0.047	5.7	2650	2.0	2.5	
Mo	95	1	No Gas	0.059	7.3	520	5.1	2.5	
Sn	118	1	No Gas	0.119	10.1	2614	2.9	5	
Sb	121	1	No Gas	0.185	2.7	2837	2.0	2.5	
Ba	137	1	No Gas	-0.086	-28.7	1003	12.7	2.5	
Tl	205	1	No Gas	0.131	43.1	3481	39.7	1	
Tl	203	1	No Gas	0.135	40.9	1550	36.9	1	
Pb	208	1	No Gas	0.031	23.1	2067	11.9	2.5	
U	238	1	No Gas	0.018	43.9	627	42.1	2.5	
Ca	43	2	He	1.798	746.5	53	65.8	100	
Sb	121	2	He	0.141	10.3	1070	8.1	2.5	
Ti	47	2	He	-0.010	-598.5	13	114.6	2.5	
Cu	63	1	No Gas	-0.043	-59.9	4951	6.0	2.5	
Se	82	1	No Gas	-0.319	-157.1	1	7387.3	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1058533	2.45	1128564	93.79	70	120	
Ge	72	2	He	732814	0.64	756957	96.81	70	120	
Ge	72	1	No Gas	2504264	0.50	2681640	93.39	70	120	
In	115	1	No Gas	2936576	1.71	3115345	94.26	70	120	
Bi	209	1	No Gas	2350719	0.79	2561633	91.77	70	120	

Sample Report

Sample Table

Sample Name	HS23031291-01
Data File Name	046SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:45:48-05:00
Sample Type	Sample
Dilution	50
Comment	TW DOD B 191406Na
ISTD Ref FileName	016CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	0.855	42.731	21.97	75094	0.00	2000	
Be	9	1	No Gas	0.006	0.292	70.69	25	0.02	2000	
V	51	2	He	-0.012	-0.617	-45.28	2009	0.00	2000	
Cr	52	2	He	0.146	7.307	40.27	15746	0.00	2000	
Fe	56	2	He	7.335	366.742	1.61	62825	0.01	200000	
Se	78	2	He	0.173	8.661	47.12	179	0.10	2000	
As	75	2	He	-0.016	-0.816	-103.86	216	-0.01	2000	
Ca	44	2	He	263.870	13193.510	4.59	12289	2.15	200000	
Na	23	2	He	11474.671	573733.568	0.69	12387645	0.09	200000	
Mg	24	2	He	269.610	13480.519	0.90	168380	0.16	200000	
K	39	2	He	39.530	1976.523	0.56	97720	0.04	200000	
Mn	55	2	He	1.330	66.522	5.94	9997	0.01	2000	
Co	59	2	He	0.017	0.856	24.67	373	0.00	2000	
Ni	60	2	He	0.101	5.027	33.64	633	0.02	2000	
Cu	63	2	He	-0.042	-2.086	-67.30	2357	0.00	2000	
Zn	66	2	He	0.527	26.359	27.86	1697	0.03	2000	
Al	27	2	He	0.463	23.137	82.28	1073	0.04	2000	
B	11	1	No Gas	5.168	258.408	6.97	16194	0.03	2000	
Al	27	1	No Gas	0.855	42.772	23.89	39661	0.00	2000	
Si	28	1	No Gas	230.286	11514.300	0.45	1945683	0.01	2000	
Ag	107	1	No Gas	0.001	0.030	485.15	157	0.00	2000	
Cd	111	1	No Gas	0.006	0.284	132.37	13	0.05	2000	
Sr	88	1	No Gas	6.284	314.195	2.77	210827	0.00	2000	
Mo	95	1	No Gas	0.026	1.317	12.78	310	0.01	2000	
Sn	118	1	No Gas	0.144	7.201	6.59	2914	0.00	2000	
Sb	121	1	No Gas	0.064	3.199	14.75	1280	0.00	2000	
Ba	137	1	No Gas	1.699	84.931	1.74	10591	0.02	2000	
Tl	205	1	No Gas	0.011	0.558	34.17	543	0.00	2000	
Tl	203	1	No Gas	0.007	0.347	56.76	223	0.00	2000	
Pb	208	1	No Gas	0.005	0.262	25.69	1207	0.00	2000	
U	238	1	No Gas	0.004	0.201	40.85	163	0.00	2000	
Ca	43	2	He	281.876	14093.786	11.76	770	36.61	200000	
Sb	121	2	He	0.066	3.277	13.66	597	0.01	2000	
Ti	47	2	He	-0.010	-0.500	-234.38	13	-0.08	2000	
Cu	63	1	No Gas	0.024	1.213	154.71	5751	0.00	2000	
Zn	66	1	No Gas	0.385	19.241	12.17	4201	0.01	2000	
Se	82	1	No Gas	-0.373	-18.626	-64.56	-9	4.20	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1053748	2.01	1128564	93.37	70	120	
Ge	72	2	He	723105	0.73	756957	95.53	70	120	
Ge	72	1	No Gas	2532464	0.77	2681640	94.44	70	120	
In	115	1	No Gas	2989267	1.55	3115345	95.95	70	120	

Sample Report

Bi	209	1	No Gas	2391953	0.57	2561633	93.38	70	120	

Sample Report

Sample Table

Sample Name	HS23031291-01SD
Data File Name	047SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:47:47-05:00
Sample Type	Sample
Dilution	250
Comment	TW DOD B 191406Na
ISTD Ref FileName	016CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	0.366	91.616	4.71	68989	0.00	2000	
Be	9	1	No Gas	0.004	0.941	47.65	18	0.02	2000	
V	51	2	He	0.057	14.297	56.67	2448	0.00	2000	
Cr	52	2	He	0.093	23.260	68.19	15519	0.00	2000	
Fe	56	2	He	1.783	445.723	4.23	29940	0.01	200000	
Se	78	2	He	-0.094	-23.616	-254.85	157	-0.06	2000	
As	75	2	He	-0.026	-6.522	-174.13	209	-0.01	2000	
Ca	44	2	He	61.253	15313.160	2.21	3557	1.72	200000	
Na	23	2	He	2319.222	579805.581	0.65	2563414	0.09	200000	
Mg	24	2	He	55.615	13903.780	1.68	35415	0.16	200000	
K	39	2	He	6.027	1506.833	18.23	70389	0.01	200000	
Mn	55	2	He	0.140	35.082	23.83	3984	0.00	2000	
Co	59	2	He	-0.001	-0.141	-1319.04	210	0.00	2000	
Ni	60	2	He	0.009	2.369	140.67	430	0.00	2000	
Cu	63	2	He	-0.130	-32.479	-25.30	1867	-0.01	2000	
Zn	66	2	He	0.169	42.292	7.17	1317	0.01	2000	
Al	27	2	He	0.386	96.415	31.62	1053	0.04	2000	
B	11	1	No Gas	2.827	706.674	11.92	11912	0.02	2000	
Al	27	1	No Gas	0.935	233.654	2.21	40436	0.00	2000	
Si	28	1	No Gas	52.131	13032.808	0.28	665899	0.01	2000	
Ag	107	1	No Gas	0.000	-0.003	-37608.35	147	0.00	2000	
Cd	111	1	No Gas	0.006	1.479	68.85	13	0.05	2000	
Sr	88	1	No Gas	1.283	320.768	1.64	43785	0.00	2000	
Mo	95	1	No Gas	0.011	2.871	17.87	210	0.01	2000	
Sn	118	1	No Gas	0.127	31.870	21.05	2737	0.00	2000	
Sb	121	1	No Gas	0.033	8.301	23.80	867	0.00	2000	
Ba	137	1	No Gas	0.145	36.127	9.96	2250	0.01	2000	
Tl	205	1	No Gas	0.002	0.453	101.17	310	0.00	2000	
Tl	203	1	No Gas	-0.001	-0.307	-327.11	137	0.00	2000	
Pb	208	1	No Gas	0.007	1.676	87.20	1257	0.00	2000	
U	238	1	No Gas	0.001	0.328	20.91	70	0.00	2000	
Ca	43	2	He	47.080	11769.903	8.41	170	27.69	200000	
Sb	121	2	He	0.044	10.999	14.62	470	0.01	2000	
Ti	47	2	He	-0.010	-2.612	-223.98	13	-0.08	2000	
Cu	63	1	No Gas	-0.093	-23.153	-11.83	4407	0.00	2000	
Zn	66	1	No Gas	0.149	37.158	60.06	3467	0.00	2000	
Se	82	1	No Gas	-0.443	-110.640	-105.69	-22	2.02	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1055737	1.21	1128564	93.55	70	120	
Ge	72	2	He	729575	0.15	756957	96.38	70	120	
Ge	72	1	No Gas	2508463	0.88	2681640	93.54	70	120	
In	115	1	No Gas	2978431	1.69	3115345	95.61	70	120	

Sample Report

Bi	209	1	No Gas	2390376	0.82	2561633	93.31	70	120	

Sample Report

Sample Table

Sample Name	HS23031291-01PDS
Data File Name	048SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:49:45-05:00
Sample Type	Sample
Dilution	50
Comment	TW DOD B 191406Na
ISTD Ref FileName	016CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	0.972	48.586	7.48	74816	0.00	2000	
Be	9	1	No Gas	108.816	5440.805	1.37	339695	0.03	2000	
V	51	2	He	103.371	5168.572	0.30	620885	0.02	2000	
Cr	52	2	He	100.248	5012.382	0.56	700637	0.01	2000	
Fe	56	2	He	9971.589	498579.451	0.47	59428236	0.02	200000	
Se	78	2	He	106.072	5303.600	1.38	9414	1.13	2000	
As	75	2	He	103.073	5153.659	0.21	91039	0.11	2000	
Ca	44	2	He	10368.095	518404.735	0.48	448396	2.31	200000	
Na	23	2	He	21317.122	1065856.116	0.69	22920998	0.09	200000	
Mg	24	2	He	10309.333	515466.642	1.07	6406937	0.16	200000	
K	39	2	He	10391.313	519565.654	0.66	8715234	0.12	200000	
Mn	55	2	He	105.809	5290.474	0.45	539909	0.02	2000	
Co	59	2	He	100.171	5008.557	0.20	934871	0.01	2000	
Ni	60	2	He	100.370	5018.500	1.56	228290	0.04	2000	
Cu	63	2	He	101.516	5075.781	1.16	583896	0.02	2000	
Zn	66	2	He	104.363	5218.162	0.35	115081	0.09	2000	
Al	27	2	He	104.063	5203.150	2.27	41345	0.25	2000	
B	11	1	No Gas	2.552	127.606	1.98	11118	0.02	2000	
Al	27	1	No Gas	107.018	5350.900	0.84	1542871	0.01	2000	
Si	28	1	No Gas	239.370	11968.517	1.16	1948828	0.01	2000	
Ag	107	1	No Gas	72.626	3631.284	2.10	1155953	0.01	2000	
Cd	111	1	No Gas	100.188	5009.400	0.53	289002	0.03	2000	
Sr	88	1	No Gas	6.319	315.952	1.18	208414	0.00	2000	
Mo	95	1	No Gas	99.373	4968.660	1.12	652050	0.02	2000	
Sn	118	1	No Gas	0.142	7.086	15.99	2840	0.00	2000	
Sb	121	1	No Gas	101.752	5087.611	2.59	1299548	0.01	2000	
Ba	137	1	No Gas	103.338	5166.895	0.60	546051	0.02	2000	
Tl	205	1	No Gas	106.340	5316.998	0.59	2631669	0.00	2000	
Tl	203	1	No Gas	104.990	5249.484	1.46	1101569	0.01	2000	
Pb	208	1	No Gas	102.776	5138.783	0.93	3589018	0.00	2000	
U	238	1	No Gas	0.006	0.291	42.66	223	0.00	2000	
Ca	43	2	He	9983.954	499197.702	1.64	25567	39.05	200000	
Sb	121	2	He	101.540	5076.975	0.90	616838	0.02	2000	
Ti	47	2	He	101.574	5078.700	0.37	24729	0.41	2000	
Cu	63	1	No Gas	107.375	5368.758	0.94	1165011	0.01	2000	
Zn	66	1	No Gas	105.199	5259.967	0.51	306228	0.03	2000	
Se	82	1	No Gas	103.573	5178.668	2.63	19006	0.54	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1028965	1.90	1128564	91.17	70	120	
Ge	72	2	He	721454	0.44	756957	95.31	70	120	
Ge	72	1	No Gas	2454519	0.87	2681640	91.53	70	120	
In	115	1	No Gas	2938061	1.17	3115345	94.31	70	120	

Sample Report

Bi	209	1	No Gas	2370649	1.41	2561633	92.54	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	050_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:57:21-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	016CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	103.224	3.149	1328256	1.30	100	103.2	90	110	
Be	9	1	No Gas	105.738	1.010	323302	0.72	100	105.7	90	110	
V	51	2	He	100.655	0.936	590073	0.78	100	100.7	90	110	
Cr	52	2	He	98.871	1.032	674584	0.67	100	98.9	90	110	
Fe	56	2	He	9957.380	0.786	57915472	0.69	10000	99.6	90	110	
Se	78	2	He	100.515	3.605	8713	2.79	100	100.5	90	110	
As	75	2	He	99.486	0.891	85763	0.14	100	99.5	90	110	
Ca	44	2	He	10128.577	1.348	427499	0.59	10000	101.3	90	110	
Na	23	2	He	9693.181	0.936	10196104	0.58	10000	96.9	90	110	
Mg	24	2	He	9807.564	1.733	5948048	1.00	10000	98.1	90	110	
K	39	2	He	10167.797	0.252	8324079	0.97	10000	101.7	90	110	
Mn	55	2	He	101.724	1.497	506677	0.88	100	101.7	90	110	
Co	59	2	He	98.074	0.977	893303	1.16	100	98.1	90	110	
Ni	60	2	He	99.183	0.551	220173	0.98	100	99.2	90	110	
Cu	63	2	He	100.356	0.601	563372	0.58	100	100.4	90	110	
Zn	66	2	He	101.415	0.115	109173	0.83	100	101.4	90	110	
Al	27	2	He	103.677	0.690	40205	1.30	100	103.7	90	110	
B	11	1	No Gas	482.538	1.060	854690	2.30	500	96.5	90	110	
Al	27	1	No Gas	100.257	1.008	1457304	0.84	100	100.3	90	110	
Si	28	1	No Gas	501.752	1.641	3792996	1.04	5000	10.0	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.989	0.980	1568178	0.94	100	100.0	90	110	
Cd	111	1	No Gas	97.484	1.181	277105	0.67	100	97.5	90	110	
Sr	88	1	No Gas	99.038	0.652	3203167	0.75	100	99.0	90	110	
Mo	95	1	No Gas	98.077	1.183	634164	0.56	100	98.1	90	110	
Sn	118	1	No Gas	97.806	0.994	963416	0.92	100	97.8	90	110	
Sb	121	1	No Gas	98.331	2.347	1264846	1.91	100	98.3	90	110	
Ba	137	1	No Gas	99.437	1.616	517816	0.77	100	99.4	90	110	
Tl	205	1	No Gas	100.242	1.421	2483239	1.32	100	100.2	90	110	
Tl	203	1	No Gas	101.203	1.980	1062682	0.89	100	101.2	90	110	
Pb	208	1	No Gas	99.229	2.160	3468014	1.14	100	99.2	90	110	
U	238	1	No Gas	100.285	1.070	3422203	0.04	100	100.3	90	110	
Ca	43	2	He	10158.249	2.105	25387	2.07	10000	101.6	90	110	
Sb	121	2	He	100.535	1.142	596043	0.69	100	100.5	90	110	
Ti	47	2	He	100.146	4.042	23791	3.34	100	100.1	90	110	
Cu	63	1	No Gas	99.541	1.864	1088234	2.62	100	99.5	90	110	
Se	82	1	No Gas	97.804	3.069	18077	2.44	100	97.8	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1007770	1.72	1128564	89.30	70	120	
Ge	72	2	He	704110	0.76	756957	93.02	70	120	
Ge	72	1	No Gas	2471967	0.78	2681640	92.18	70	120	
In	115	1	No Gas	2895342	1.10	3115345	92.94	70	120	
Bi	209	1	No Gas	2373153	1.10	2561633	92.64	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	051_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:59:14-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	016CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.182	50.7	67323	0.8	0.5	
Be	9	1	No Gas	0.016	22.7	57	18.4	0.5	
V	51	2	He	-0.073	-18.6	1646	5.2	2.5	
Cr	52	2	He	0.181	18.7	16016	1.8	2.5	
Fe	56	2	He	1.680	5.0	29111	2.3	100	
Se	78	2	He	-0.020	-1213.5	162	12.5	2	
As	75	2	He	-0.042	-39.3	193	6.9	2.5	
Ca	44	2	He	2.680	27.6	993	3.1	100	
Na	23	2	He	19.720	3.1	67650	1.7	100	
Mg	24	2	He	1.171	1.8	1193	1.7	100	
K	39	2	He	1.900	37.1	66436	0.7	100	
Mn	55	2	He	-0.068	-18.7	2897	2.5	2.5	
Co	59	2	He	0.007	63.9	280	15.6	2.5	
Ni	60	2	He	0.066	16.9	557	4.1	2.5	
Cu	63	2	He	-0.128	-15.7	1864	6.5	2	
Zn	66	2	He	0.421	16.5	1583	5.4	2.5	
Al	27	2	He	1.284	13.6	1397	5.3	5	
B	11	1	No Gas	10.590	11.5	26477	7.6	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	2.001	3.4	56267	1.2	5	
Si	28	1	No Gas	2.049	15.5	313536	1.2	10	
Ag	107	1	No Gas	0.006	46.9	237	19.1	2.5	
Cd	111	1	No Gas	0.010	103.0	26	121.1	1	
Sr	88	1	No Gas	0.041	6.3	2467	1.8	2.5	
Mo	95	1	No Gas	0.058	17.6	520	11.5	2.5	
Sn	118	1	No Gas	0.130	27.0	2750	11.8	5	
Sb	121	1	No Gas	0.199	10.0	3047	7.9	2.5	
Ba	137	1	No Gas	-0.083	-43.2	1030	17.0	2.5	
Tl	205	1	No Gas	0.131	40.0	3587	37.0	1	
Tl	203	1	No Gas	0.122	40.0	1453	35.8	1	
Pb	208	1	No Gas	0.030	18.5	2120	9.4	2.5	
U	238	1	No Gas	0.016	38.2	570	36.5	2.5	
Ca	43	2	He	11.176	140.2	77	52.7	100	
Sb	121	2	He	0.140	3.6	1053	2.2	2.5	
Ti	47	2	He	-0.023	-306.3	10	173.2	2.5	
Cu	63	1	No Gas	-0.110	-15.8	4244	4.2	2.5	
Se	82	1	No Gas	-0.407	-119.0	-16	-584.4	2	

QC ISTD Table

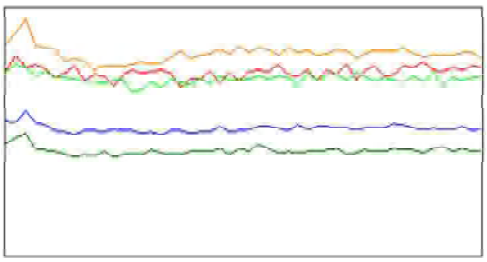
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1067118	2.04	1128564	94.56	70	120	
Ge	72	2	He	724374	0.73	756957	95.70	70	120	
Ge	72	1	No Gas	2526293	0.67	2681640	94.21	70	120	
In	115	1	No Gas	2970547	1.71	3115345	95.35	70	120	
Bi	209	1	No Gas	2420750	0.08	2561633	94.50	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq. Date-Time	3/29/2023 9:32:34 AM
Report Comment	---
Instrument Name	G8421A SG18523544

[No Gas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/ug/l]	Resp (Required) [cps/ug/l]	Resp (Flag)
9	5000	3721	37206.36		
24	20000	14365	143652.22		
59	50000	25883	258832.47		
115	50000	40983	409831.73		
208	50000	21320	213202.46		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	3.321	5.000	
24	2.786	5.000	
59	3.036	5.000	
115	4.192	5.000	
208	4.068	5.000	

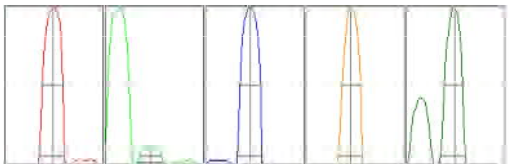
Mass	Background	Background (Required)	Background (Flag)
9	2.500		
24	2.500		
59	2.300		
115	2.200		
208	3.300		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 0.667 %
Doubly Charged	70 / 140 0.699 %

Tune Check Report

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	37.4
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	3802.25	9.00	8.90 - 9.10	
24	14297.88	23.90	23.90 - 24.10	
59	26440.45	58.90	58.90 - 59.10	
115	42925.55	114.90	114.90 - 115.10	
208	21333.49	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.778		
24	0.64	0.780		
59	0.60	0.736		
115	0.54	0.724		
208	0.56	0.762		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.48 L/min	Dilution Gas	0.60 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.5 V	Deflect	16.2 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-90 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	133	Axis Gain	1.0002	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.05		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-0.6 mm

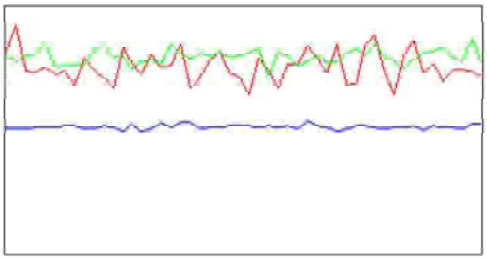
EM

Discriminator	4.6 mV	Analog HV	2947 V	Pulse HV	1630 V

[He]

Tune Check Report

Sensitivity



Sampling Period [sec]	0.306
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/ug/l]	Resp (Required) [cps/ug/l]	Resp (Flag)
9	200	152	1517.28		
24	1000	798	7979.87		
59	20000	10306	103060.33		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

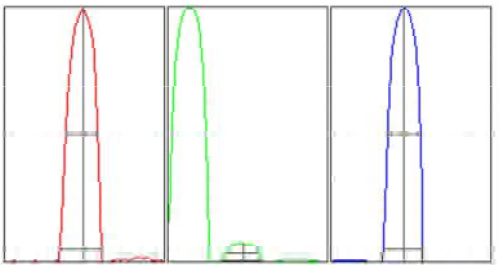
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	8.154	5.000	Fail
24	3.659	5.000	
59	1.667	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	1.700		
24	1.600		
59	1.000		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.132 %
Doubly Charged	70 / 140 0.879 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	163.27	9.00	8.90 - 9.10	
24	771.24	23.95	23.90 - 24.10	
59	10494.18	58.90	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.779		
24	0.65	0.778		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.60	0.735		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.48 L/min	Dilution Gas	0.60 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.6 V	Deflect	0.5 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-90 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	4.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	133	Axis Gain	1.0002	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.05		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-0.6 mm

EM

Discriminator	4.6 mV	Analog HV	2947 V	Pulse HV	1630 V

HS23031291 Wet Chemistry

ALS WO# HS23031291

HS2303i291

ALS Laboratory Group — **COD Analysis** — **Logbook# 32124**

Method: HACH 8000 (EPA 410.4) | Date: 3-27-23 | Low COD–420nm | Analyst: TH

SOP #: HS-WC025 | Time: 13:00 | High COD–620nm

WO # / SX #	Bottle #	Init Sample Vol (mL)	Prep Final Volume (mL)	Dilution Factor	Init Conc. (mg/L)	Final Conc. (mg/L)	Comments
CAL50		2	2	1	49		
MBLK					0		
LCS					99		
HS2303i129-02					26		
-02MS					76		
-02MSD				↓	74		
HS2303i442-01				20	117		
-02				200	125		
HS2303i191-02				2	122		
HS2303i258-02				2	120		
CAL100		2	2	1	100		
HS2303i291-01					25		
HS2303i294-01				↓	20		
HS2303i445-06				5	88		
HS2303i512-01				100	90		
HS2303i369-01				1	130		
HS2303i092-01				5	103		
HS2303i093-01				5	79		
HS2303i130-02				1	64		
HS2303i131-02					35		
HS2303i351-01				↓	91		
CAL50		2	2	1	49		

LCS ID #	CCV1 ID#	CCV2 ID#	Vial Lot#:	Reviewed By:
321-101-304	321-101-305	321-101-306	310-060-5819	
LCS Prep Date:	**Prep Date:**	**Prep Date:**	**MS ID:**	***Pipette ID:***
01-10-23			310-060-7009	WC9-COD
Digestor ID:	**Digestor *Temp* (°C):**	**Date/Time In Digestor:**	**Date/Time Off Digestor:**	**Batch ID:**
DRB 200	150°	3-27-23 10:00	3-27-23 12:00	431068

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HS23031291

ALS Laboratory Group Confidential

032723O&G WM

Method: O&G, HEM by EPA 1664A (SOP HS-WC036, Current Revision)

Analyst:	VD
Review By:	
Batch ID:	428560
LCS/MS Spike ID:	3100607002
Hexane ID:	3100708315
Filter Lot:	3100606916
Silica Gel:	

Methanol ID:	3100601486
1:1 HCl ID:	317196707
Na2SO4 Cartridge ID:	3100606822
Thermo HotBlock Setting (°C):	40
pH Paper ID:	3100600306
Pipette ID	TDS

Temp Ranges (°C)
Pan Drying: 105-115
Hex Evap: 68-72
HotBlock: 35-50

	grams	mg	Accept.
Init 2.0 mg wt (1.8mg to 2.2mg required):	0.0020	2.0	Yes
Init 1000 mg wt (995mg to 1005mg required):	1.0000	1000	Yes
Final 2.0 mg wt (1.8mg to 2.2mg required):	0.0020	2.0	Yes
Final 1000 mg wt (995mg to 1005mg required)	1.0000	1000	Yes

Pan	Temp Deg C	Actual Deg C	Date	Time
Pan 1st In:	105-115	105	03/27/2023	8:45AM
Pan 1st Out:	105-115	105	03/27/2023	9:50AM
Pan 2nd In:	105-115	105	03/27/2023	10:30AM
Pan 2nd Out:	105-115	105	03/27/2023	11:30AM
Pan 3rd In:	105-115			
Pan 3rd Out:	105-115			
Oven ID:	WC Oven 4			
Balance ID:	WC Balance-03			

O&G	Temp Deg C	Actual Deg C	Date	Time
O&G 1st In:	68-72	68	03/27/2023	1:10PM
O&G 1st Out:	68-72	68	03/27/2023	1:20PM
O&G 2nd In:	68-72	68	03/27/2023	1:30PM
O&G 2nd Out:	68-72	68	03/27/2023	1:40PM
O&G 3rd In:	68-72			
O&G 3rd Out:	68-72			
Oven ID:	WC Oven 1A			
Balance ID:	WC Balance-03			

$$O\ \&\ G\ (HEM), mg/L = \frac{Weight\ (HEM, mg)}{Volume\ (Sample\ Extracted, L)}$$

Dish ID	Work Order #	Bottle Number	SGT	Sample Type	pH Check	1st Dry Pan Wt (g)	2nd Dry Pan Wt (g)	3rd Dry Pan Wt (g)	Passes Difference Criteria (Change is <0.0005 g)	Passes % Weight Criteria (Change is <4%)	Pan Weight (g)	Sample Vol (mL)	70 deg C O&G 1st dry Wt (g)	70 deg C O&G 2nd dry Wt (g)	70 deg C O&G 3rd dry Wt (g)	Passes Difference Criteria (Change is <0.0005 g)	Passes % Weight Criteria (Change is <4%)	O&G Weight (g)	O&G (mg/L)
1	WBLKW-032723	1 of 1		MBLK	<2	4.1746	4.1746		Yes	Yes	4.1746	1000	4.1738	4.1738		Yes	Yes	-0.0008	-0.8
2	WLCSW-032723	1 of 1		LCS	<2	4.2354	4.2351		Yes	Yes	4.2351	1000	4.2756	4.2754		Yes	Yes	0.0403	40.3
3	WLCSDW-032723	1 of 1		LCSD	<2	4.1239	4.1241		Yes	Yes	4.1241	1000	4.1677	4.1678		Yes	Yes	0.0437	43.7
4	HS23031245-01MS	2 of 2		MS	<2	4.1824	4.1823		Yes	Yes	4.1823	1000	4.2260	4.2256		Yes	Yes	0.0433	43.3
5	HS23031245-01MS	1 of 2		Sample	<2	4.0629	4.0628		Yes	Yes	4.0628	240	4.0627	4.0632		Yes	Yes	0.0004	1.7
6	HS23031251-02	1 of 2		Sample	<2	4.2062	4.2062		Yes	Yes	4.2062	220	4.2066	4.2066		Yes	Yes	0.0004	1.8
7	HS23031256-01	1 of 2		Sample	<2	4.1194	4.1191		Yes	Yes	4.1191	240	4.1197	4.1196		Yes	Yes	0.0005	2.1
8	HS23031258-01	1 of 2		Sample	<2	4.1880	4.1882		Yes	Yes	4.1882	240	4.1889	4.1887		Yes	Yes	0.0005	2.1
9	HS23031291-01	1 of 2		Sample	<2	4.1889	4.1890		Yes	Yes	4.1890	1000	4.1899	4.1899		Yes	Yes	0.0009	0.9
10	HS23031294-01	1 of 2		Sample	<2	4.1789	4.1790		Yes	Yes	4.1790	1000	4.1794	4.1794		Yes	Yes	0.0004	0.4
11	HS23031408-01	1 of 2		Sample	<2	4.1640	4.1640		Yes	Yes	4.1640	220	4.1636	4.1639		Yes	Yes	-0.0001	-0.5
12	HS23031410-01	1 of 2		Sample	<2	4.1527	4.1528		Yes	Yes	4.1528	220	4.1525	4.1525		Yes	Yes	-0.0003	-1.4
13	HS23031454-01	1 of 2		Sample	<2	4.2279	4.2277		Yes	Yes	4.2277	250	4.9383	4.9382		Yes	Yes	0.7105	2842.0
14	HS23031454-02	1 of 2		Sample	<2	4.1043	4.1046		Yes	Yes	4.1046	245	4.4720	4.4721		Yes	Yes	0.3675	1500.0
15	HS23031454-03	1 of 2		Sample	<2	4.0469	4.0466		Yes	Yes	4.0466	250	4.1632	4.1631		Yes	Yes	0.1165	466.0
16	HS23031454-04	1 of 2		Sample	<2	4.1231	4.1233		Yes	Yes	4.1233	245	4.5625	4.5623		Yes	Yes	0.4390	1791.8
17	HS23031454-05	1 of 2		Sample	<2	4.1303	4.1302		Yes	Yes	4.1302	250	4.8060	4.8060		Yes	Yes	0.6758	2703.2
18	HS23030921-02	1 of 2		Sample	<2	4.1975	4.1970		Yes	Yes	4.1970	245	4.1968	4.1972		Yes	Yes	0.0002	0.8
19	HS23030943-01	1 of 2		Sample	<2	4.1872	4.1873		Yes	Yes	4.1873	250	4.1980	4.1984		Yes	Yes	0.0111	44.4
20	HS23030944-01	1 of 2		Sample	<2	4.1316	4.1314		Yes	Yes	4.1314	250	4.1418	4.1418		Yes	Yes	0.0104	41.6
21	HS23031194-01	1 of 2		Sample	<2	4.1593	4.1597		Yes	Yes	4.1597	230	4.1596	4.1595		Yes	Yes	-0.0002	-0.9
22	HS23031196-02	1 of 2		Sample	<2	4.1500	4.1497		Yes	Yes	4.1497	250	4.1500	4.1500		Yes	Yes	0.0003	1.2
23	HS23031314-01	1 of 2		Sample	<2	4.0699	4.0702		Yes	Yes	4.0702	240	4.0698	4.0699		Yes	Yes	-0.0003	-1.3
24	HS23031314-02	1 of 2		Sample	<2	4.1979	4.1977		Yes	Yes	4.1977	240	4.1973	4.1976		Yes	Yes	-0.0001	-0.4

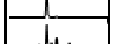
HS23031291 9056_W IC

ALS WO# HS23031291

Sequence: 032723
Last Update Operator: alshs.nouser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	STD1		Calibratic	RA1	1.00	1	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD2		Calibratic	RA2	1.00	2	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD3		Calibratic	RA3	1.00	3	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD4		Calibratic	RA4	1.00	4	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD5		Calibratic	RA5	1.00	5	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD6		Calibratic	RA6	1.00	6	Anions Program ISO37mM 150mm short 0.4 Constant current
	ICV		Unknown	RA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	ICB		Unknown	RA8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK	9056-W	Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS		Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23031291-01		Unknown	RB1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23031291-01DF20		Unknown	RB2	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23031330-10		Unknown	RC6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23031330-10MS		Unknown	RC7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23031330-10MSD		Unknown	RC8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 032723
Last Update Operator: alshs.nouser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		STD1	5.0	Finished	3/27/2023 10:46:15 AM -05:00
Anions Processing Method ISO		STD2	5.0	Finished	3/27/2023 10:52:04 AM -05:00
Anions Processing Method ISO		STD3	5.0	Finished	3/27/2023 10:57:52 AM -05:00
Anions Processing Method ISO		STD4	5.0	Finished	3/27/2023 11:03:40 AM -05:00
Anions Processing Method ISO		STD5	5.0	Finished	3/27/2023 11:09:28 AM -05:00
Anions Processing Method ISO		STD6	5.0	Finished	3/27/2023 11:15:16 AM -05:00
Anions Processing Method ISO		ICV	5.0	Finished	3/27/2023 11:21:04 AM -05:00
Anions Processing Method ISO		ICB	5.0	Finished	3/27/2023 11:26:52 AM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	3/27/2023 12:23:02 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	3/27/2023 12:34:39 PM -05:00
Anions Processing Method ISO		MBLK	5.0	Finished	3/27/2023 12:46:16 PM -05:00
Anions Processing Method ISO		LCS	5.0	Finished	3/27/2023 12:57:52 PM -05:00
Anions Processing Method ISO		CCV1	5.0	Finished	3/27/2023 2:01:42 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	3/27/2023 2:07:30 PM -05:00
Anions Processing Method ISO		HS23031291-01	5.0	Finished	3/27/2023 2:19:06 PM -05:00
Anions Processing Method ISO		HS23031291-01DF20	5.0	Finished	3/27/2023 2:24:54 PM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	3/27/2023 3:28:44 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	3/27/2023 3:34:32 PM -05:00
Anions Processing Method ISO		HS23031330-10	5.0	Finished	3/27/2023 4:03:34 PM -05:00
Anions Processing Method ISO		HS23031330-10MS	5.0	Finished	3/27/2023 4:09:22 PM -05:00
Anions Processing Method ISO		HS23031330-10MSD	5.0	Finished	3/27/2023 4:15:10 PM -05:00
Anions Processing Method ISO		CCV1	5.0	Finished	3/27/2023 4:44:11 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	3/27/2023 4:55:48 PM -05:00

Sequence: 032723
Injection #6: STD6

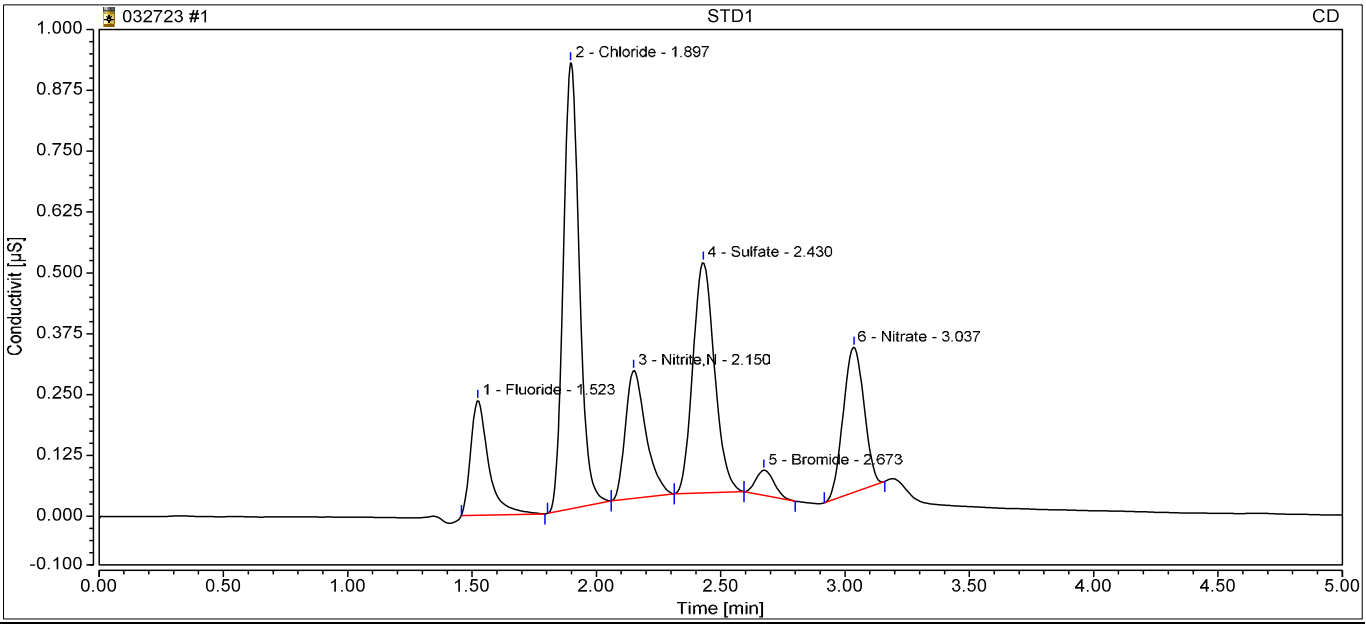
Calibration

Peak No.	Peak Name	Cal.Type	Eval.Type	Number of Points	Rel.Std.Dev. %	Coeff.of Determination	C0 (Offset)	C1 (Slope)	C2 (Curve)
1	***Fluoride***	***Lin, WithOffset, 1/A***	***Area***	***6***	***15.9265***	***0.99877***	***-0.0049***	***0.2457***	***0.0000***
2	Chloride	Lin, WithOffset, 1/A	Area	6	5.2922	0.99987	-0.0205	0.1662	0.0000
3	Nitrite,N	Quad, WithOffset, 1/A	Area	6	5.6610	0.99985	-0.0097	0.3547	-0.0050
4	Sulfate	Lin, WithOffset, 1/A	Area	6	6.2015	0.99981	-0.0110	0.1147	0.0000
5	Bromide	Lin, WithOffset, 1/A	Area	6	15.1669	0.99901	-0.0026	0.0598	0.0000
6	Nitrate	Lin, WithOffset, 1/A	Area	6	5.4416	0.99985	-0.0053	0.3388	0.0000
7	Chlorate	Quad, WithOffset, 1/A	Area	5	11.3064	0.99765	-0.0001	0.0162	-0.0004
8	Phosphate	Lin, WithOffset, 1/A	Area	1	n.a.	n.a.	n.a.	n.a.	n.a.
Maximum					**15.9265**	0.99987			
Minimum					5.2922	**0.99765**			

1 STD1

Sample Name:	**STD1**	*Injection Volume:*	**5.00**
Vial Number:	**RA1**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 10:46**	*Sample Weight:*	**1.0000**

Run Time:



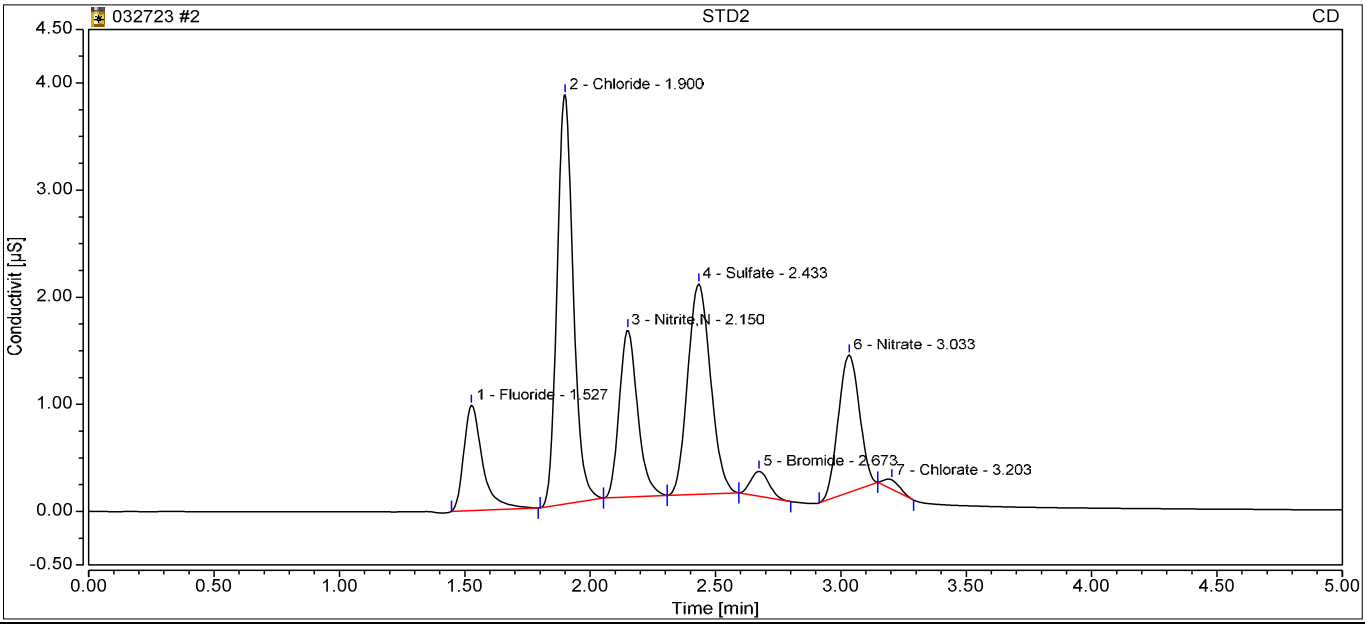
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	0.020	0.1004	0.1004	1.0000
2	1.90	Chloride	BMB	0.069	0.5362	0.5362	1.0000
3	2.15	Nitrite,N	BMB	0.025	0.0981	0.0981	1.0000
4	2.43	Sulfate	BMB	0.048	0.5126	0.5126	1.0000
5	2.67	Bromide	BMB	0.004	0.1175	0.1175	1.0000
6	3.04	Nitrate	BMB	0.029	0.1014	0.1014	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.195**		**1.47**	

2 STD2

Sample Name:	**STD2**	*Injection Volume:*	**5.00**
Vial Number:	**RA2**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 10:52**	*Sample Weight:*	**1.0000**

Run Time:

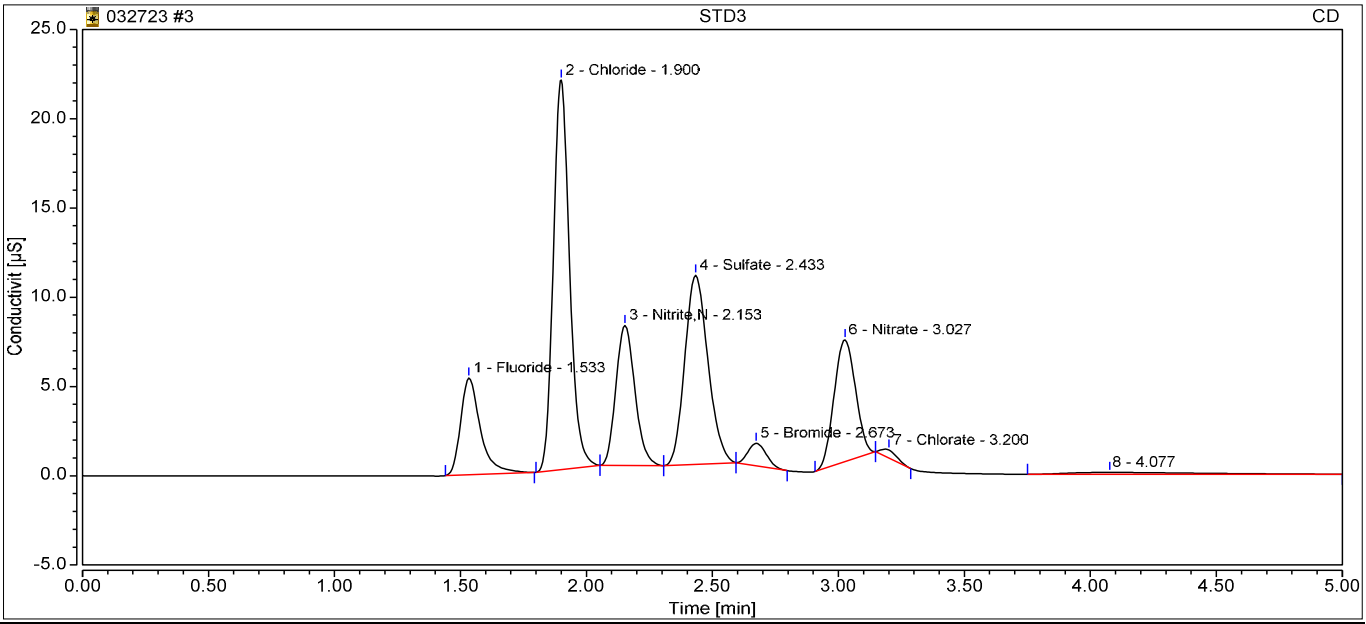


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.085	0.3679	0.3679	1.0000
2	1.90	Chloride	BMB	0.285	1.8392	1.8392	1.0000
3	2.15	Nitrite,N	BMB	0.132	0.4019	0.4019	1.0000
4	2.43	Sulfate	BMB	0.207	1.9051	1.9051	1.0000
5	2.67	Bromide	BMB	0.020	0.3734	0.3734	1.0000
6	3.03	Nitrate	BMB	0.125	0.3847	0.3847	1.0000
7	3.20	Chlorate	BMB	0.006	0.3975	0.3975	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.861**		**5.67**	

3 STD3			
Sample Name:	**STD3**	*Injection Volume:*	**5.00**
Vial Number:	**RA3**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 10:57**	*Sample Weight:*	**1.0000**

Run Time:



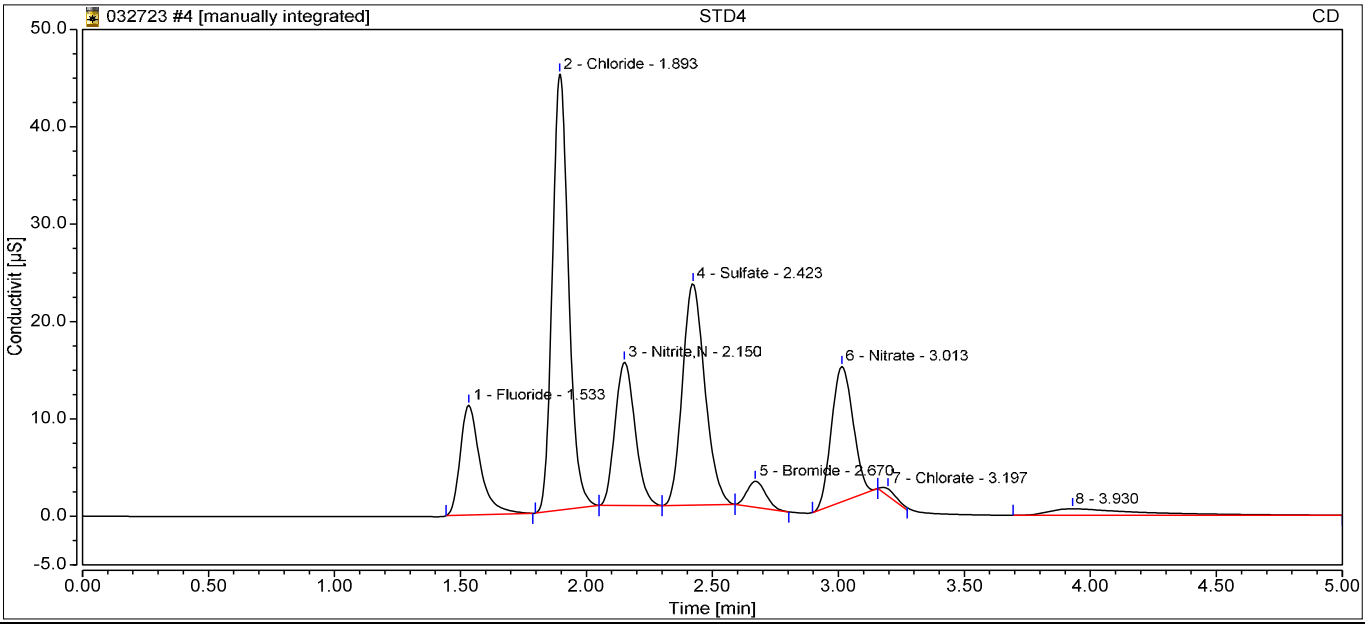
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.494	2.0319	2.0319	1.0000
2	1.90	Chloride	BMB	1.628	9.9188	9.9188	1.0000
3	2.15	Nitrite,N	BMB	0.686	2.0194	2.0194	1.0000
4	2.43	Sulfate	BMB	1.129	9.9442	9.9442	1.0000
5	2.67	Bromide	BMB	0.107	1.8244	1.8244	1.0000
6	3.03	Nitrate	BMB	0.672	2.0005	2.0005	1.0000
7	3.20	Chlorate	BMB	0.032	2.1081	2.1081	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**4.748**		**29.85**	

4 STD4

Sample Name:	**STD4**	*Injection Volume:*	**5.00**
Vial Number:	**RA4**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 11:03**	*Sample Weight:*	**1.0000**

Run Time:



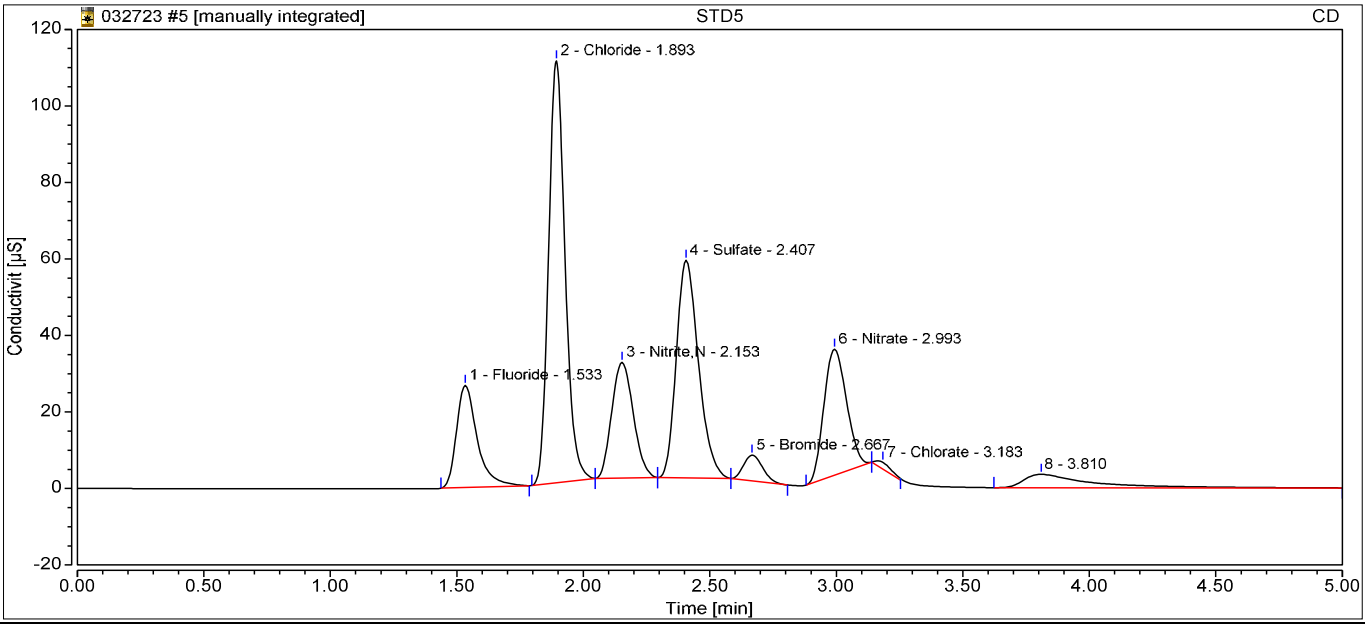
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	1.031	4.2171	4.2171	1.0000
2	1.89	Chloride	BMB	3.359	20.3393	20.3393	1.0000
3	2.15	Nitrite,N	BMB	1.351	4.0712	4.0712	1.0000
4	2.42	Sulfate	BMB	2.345	20.5489	20.5489	1.0000
5	2.67	Bromide	BMB	0.229	3.8737	3.8737	1.0000
6	3.01	Nitrate	BMb*	1.382	4.0959	4.0959	1.0000
7	3.20	Chlorate	bM *	0.054	3.6962	3.6962	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.752**		**60.84**	

5 STD5

Sample Name:	**STD5**	*Injection Volume:*	**5.00**
Vial Number:	**RA5**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 11:09**	*Sample Weight:*	**1.0000**

Run Time:

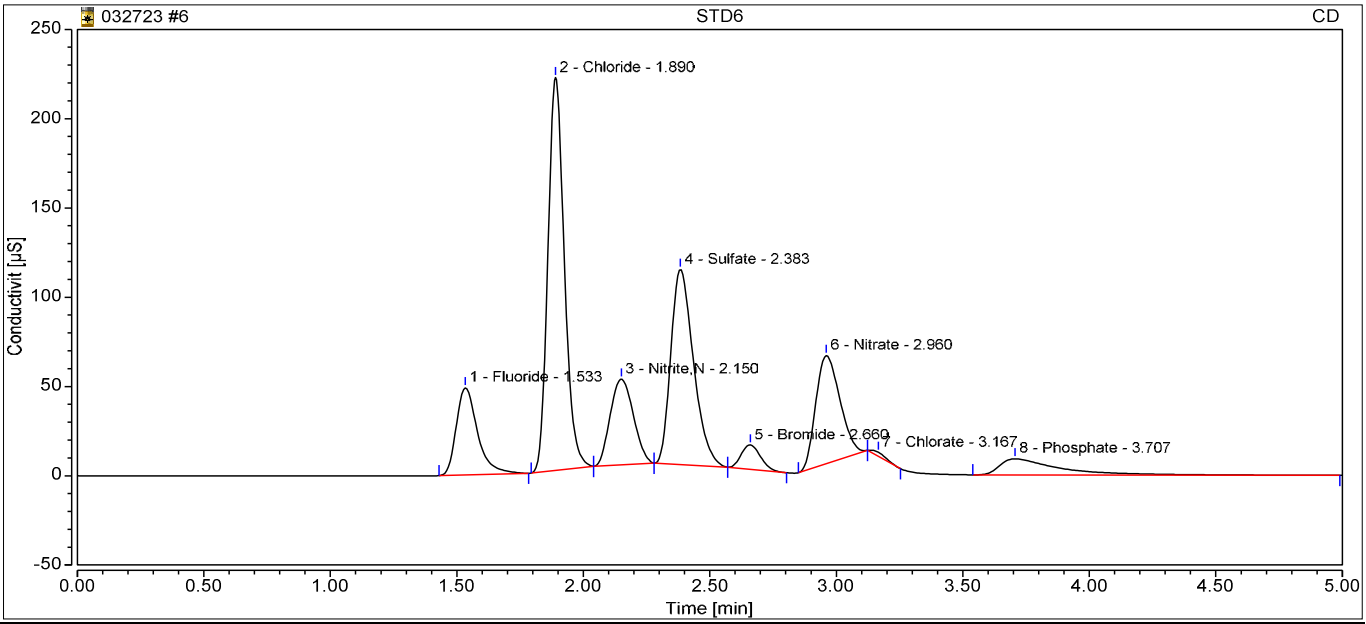


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	2.534	10.3362	10.3362	1.0000
2	1.89	Chloride	BMB	8.297	50.0559	50.0559	1.0000
3	2.15	Nitrite,N	BMB	2.988	9.8143	9.8143	1.0000
4	2.41	Sulfate	BMB	5.773	50.4471	50.4471	1.0000
5	2.67	Bromide	BMB	0.590	9.9039	9.9039	1.0000
6	2.99	Nitrate	BMb*	3.410	10.0821	10.0821	1.0000
7	3.18	Chlorate	bM *	0.122	10.4833	10.4833	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**23.715**		**151.12**	

6 STD6			
Sample Name:	**STD6**	*Injection Volume:*	**5.00**
Vial Number:	**RA6**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 11:15**	*Sample Weight:*	**1.0000**

Run Time:



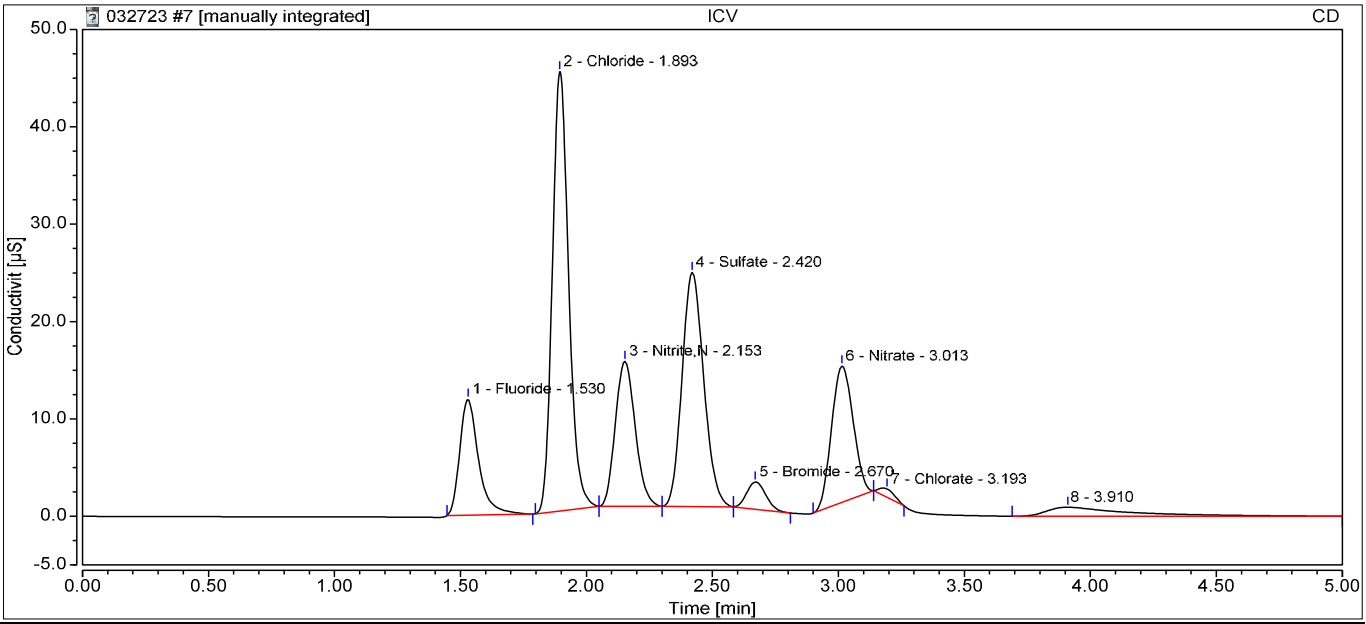
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	4.772	19.4465	19.4465	1.0000
2	1.89	Chloride	BMB	16.564	99.8106	99.8106	1.0000
3	2.15	Nitrite,N	BMB	5.097	20.1210	20.1210	1.0000
4	2.38	Sulfate	BMB	11.357	99.1422	99.1422	1.0000
5	2.66	Bromide	BMB	1.218	20.4071	20.4071	1.0000
6	2.96	Nitrate	BMB	6.715	19.8355	19.8355	1.0000
7	3.17	Chlorate	BMB	0.149	20.7316	20.7316	1.0000
8	3.71	Phosphate	BMB	2.482	n.a.	n.a.	1.0000
Total:			**0.000**	**48.354**		**299.49**	

7 ICV

Sample Name:	**ICV**	*Injection Volume:*	**5.00**
Vial Number:	**RA7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 11:21**	*Sample Weight:*	**1.0000**

Run Time:



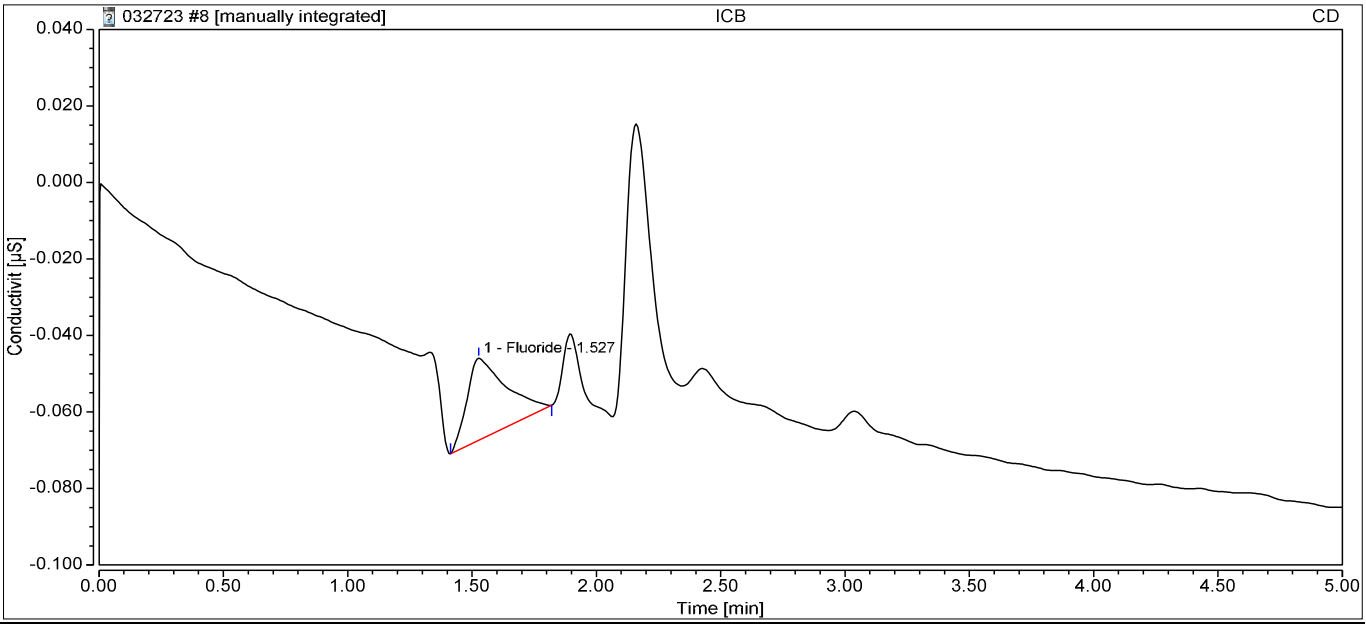
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	1.032	4.2230	4.2230	1.0000
2	1.89	Chloride	BMB	3.385	20.4937	20.4937	1.0000
3	2.15	Nitrite,N	BMB	1.362	4.1075	4.1075	1.0000
4	2.42	Sulfate	BMB	2.394	20.9762	20.9762	1.0000
5	2.67	Bromide	BMB	0.245	4.1335	4.1335	1.0000
6	3.01	Nitrate	BMb*	1.394	4.1309	4.1309	1.0000
7	3.19	Chlorate	bMB*	0.059	4.1057	4.1057	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.872**		**62.17**	

8 ICB

Sample Name:	**ICB**	*Injection Volume:*	**5.00**
Vial Number:	**RA8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 11:26**	*Sample Weight:*	**1.0000**

Run Time:

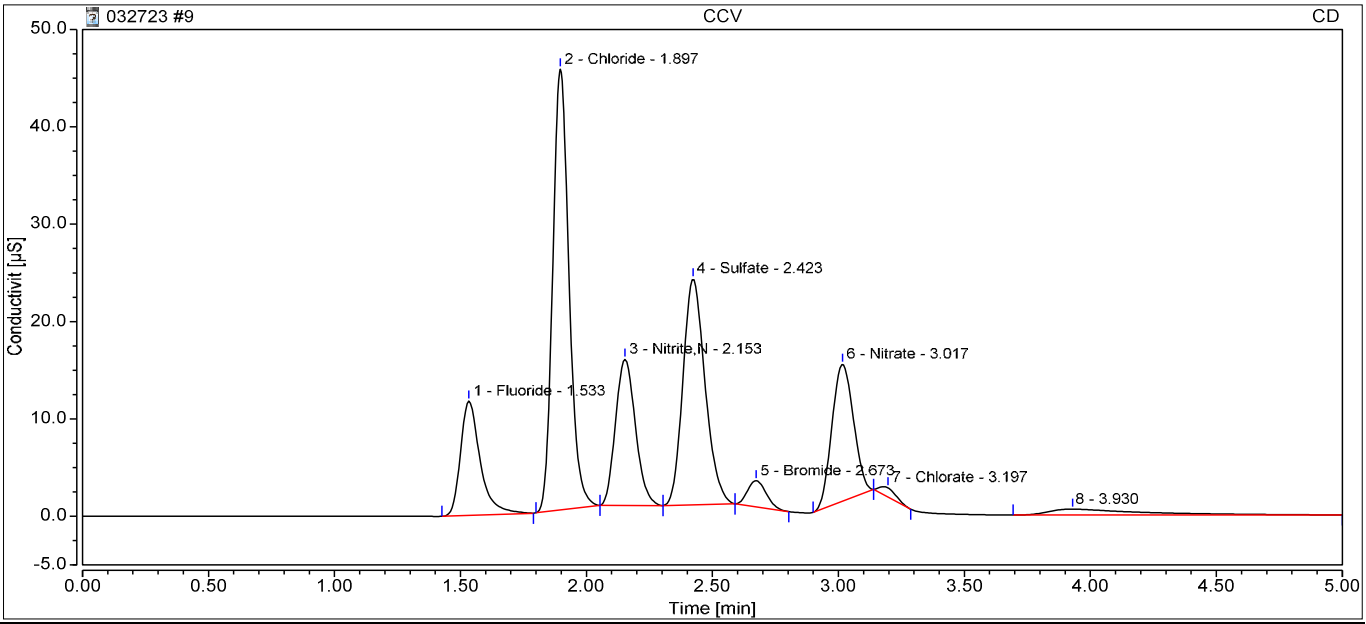


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.004	0.0355	0.0355	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.004**		**0.04**	

9	*CCV*		
Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 12:23**	*Sample Weight:*	**1.0000**

Run Time:



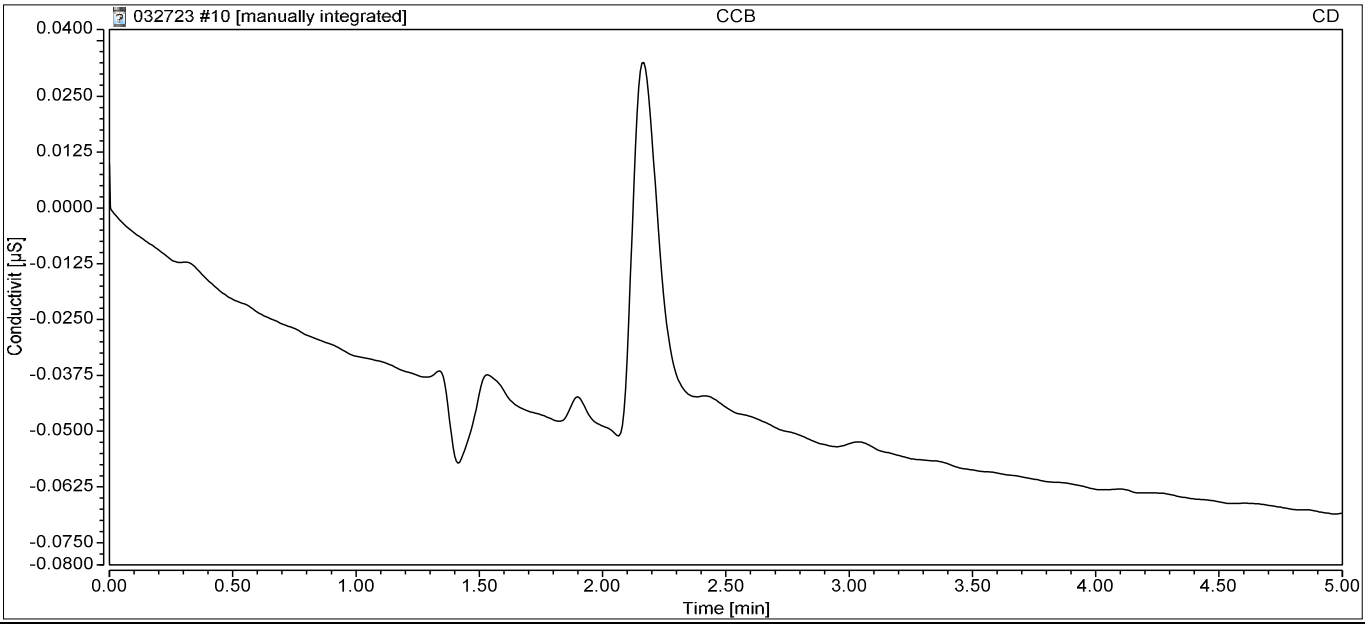
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	1.066	4.3585	4.3585	1.0000
2	1.90	Chloride	BMB	3.386	20.5043	20.5043	1.0000
3	2.15	Nitrite,N	BMB	1.374	4.1440	4.1440	1.0000
4	2.42	Sulfate	BMB	2.364	20.7137	20.7137	1.0000
5	2.67	Bromide	BMB	0.233	3.9354	3.9354	1.0000
6	3.02	Nitrate	BMB	1.396	4.1374	4.1374	1.0000
7	3.20	Chlorate	BMB	0.068	4.8480	4.8480	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.888**		**62.64**	

10 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 12:34**	*Sample Weight:*	**1.0000**

Run Time:



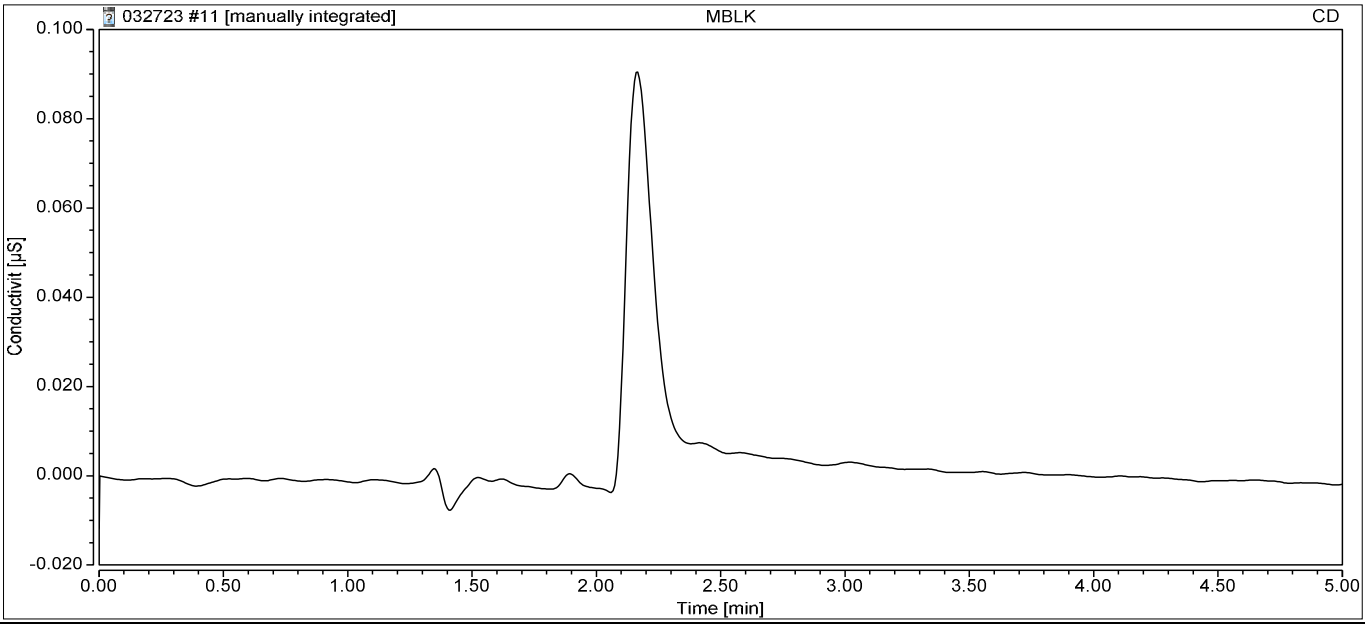
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

11 MBLK

Sample Name:	**MBLK**	*Injection Volume:*	**5.00**
Vial Number:	**R5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 12:46**	*Sample Weight:*	**1.0000**

Run Time:



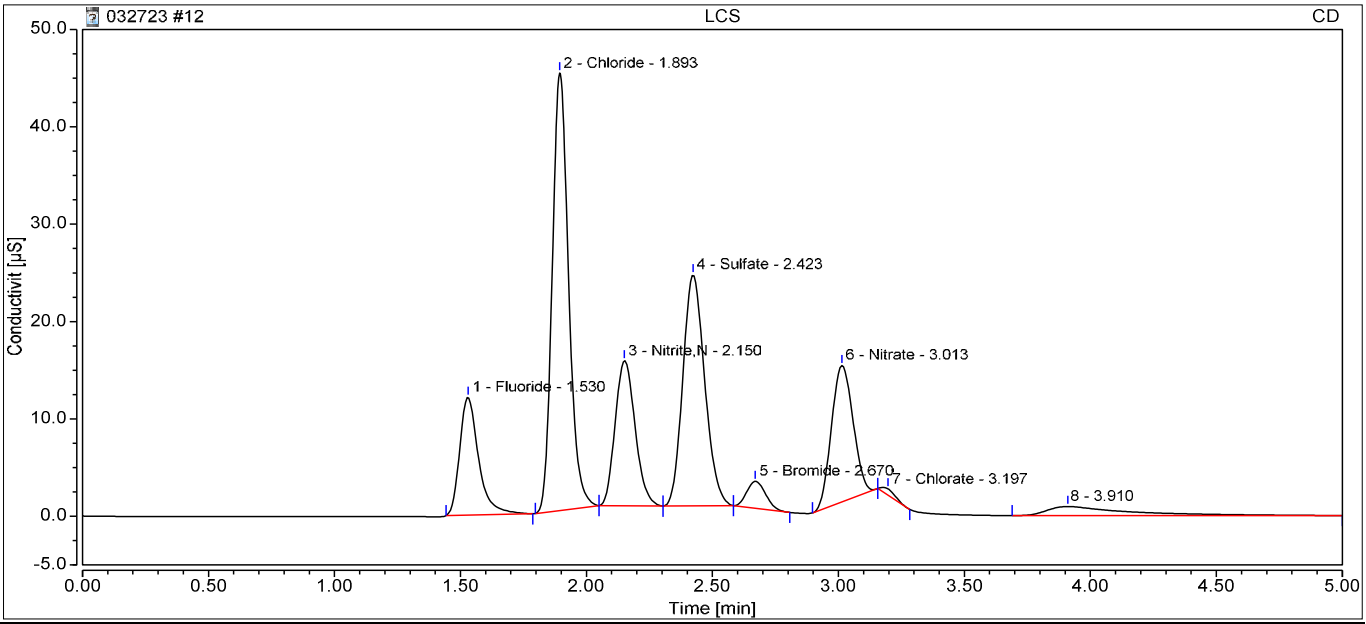
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

12 LCS

Sample Name:	**LCS**	*Injection Volume:*	**5.00**
Vial Number:	**R2**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 12:57**	*Sample Weight:*	**1.0000**

Run Time:



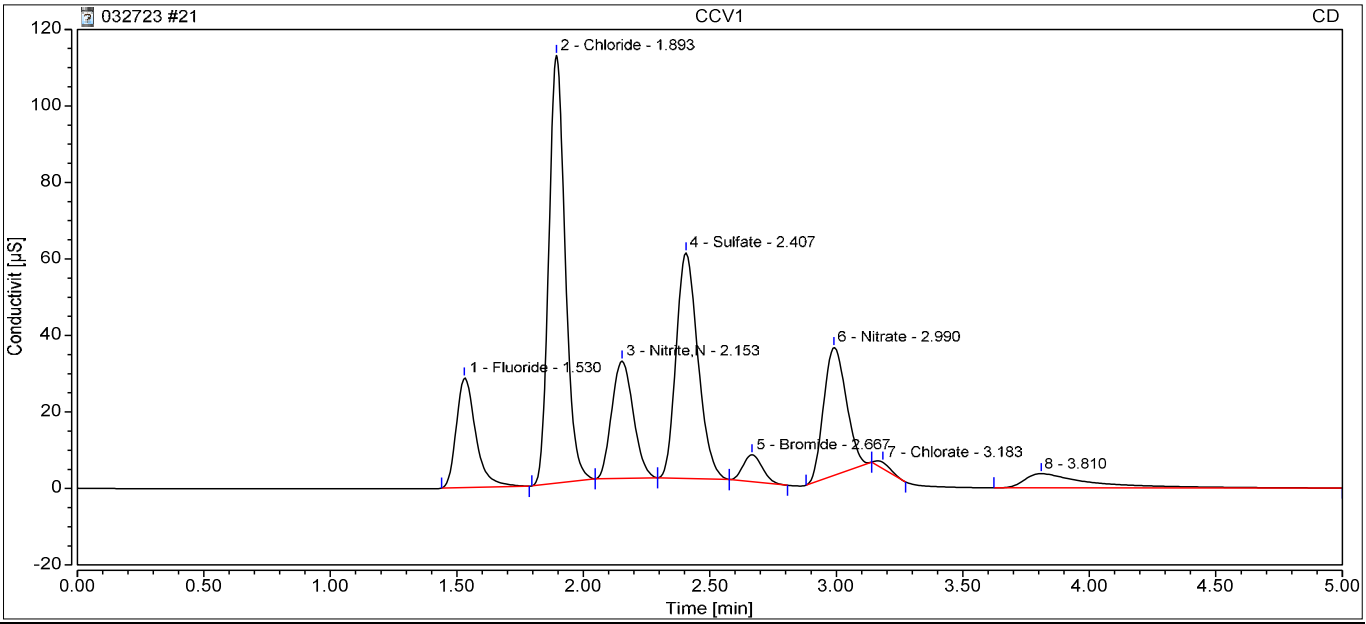
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	1.055	4.3159	4.3159	1.0000
2	1.89	Chloride	BMB	3.376	20.4424	20.4424	1.0000
3	2.15	Nitrite,N	BMB	1.369	4.1283	4.1283	1.0000
4	2.42	Sulfate	BMB	2.384	20.8848	20.8848	1.0000
5	2.67	Bromide	BMB	0.241	4.0681	4.0681	1.0000
6	3.01	Nitrate	BMB	1.395	4.1323	4.1323	1.0000
7	3.20	Chlorate	BMB	0.038	2.4858	2.4858	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.857**		**60.46**	

21 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 14:01**	*Sample Weight:*	**1.0000**

Run Time:



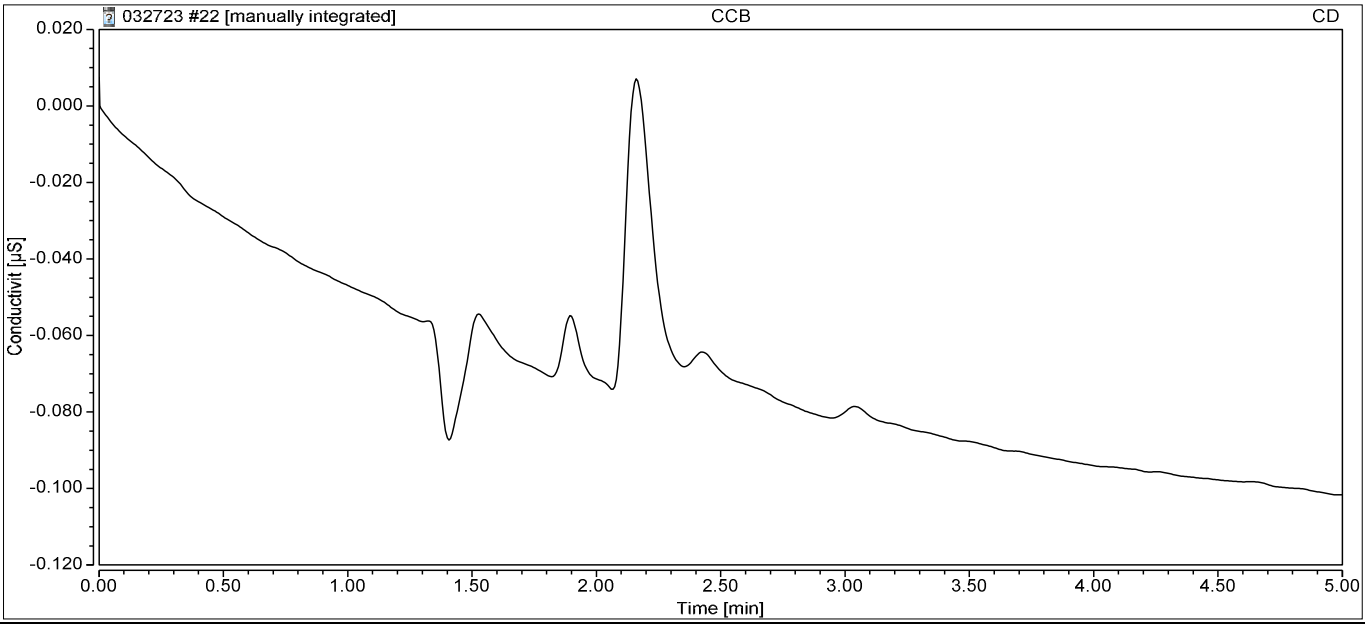
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	2.558	10.4310	10.4310	1.0000
2	1.89	Chloride	BMB	8.393	50.6339	50.6339	1.0000
3	2.15	Nitrite,N	BMB	3.030	9.9761	9.9761	1.0000
4	2.41	Sulfate	BMB	5.904	51.5898	51.5898	1.0000
5	2.67	Bromide	BMB	0.622	10.4402	10.4402	1.0000
6	2.99	Nitrate	BMB	3.468	10.2520	10.2520	1.0000
7	3.18	Chlorate	BMB	0.104	8.2676	8.2676	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**24.079**		**151.59**	

22 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 14:07**	*Sample Weight:*	**1.0000**

Run Time:



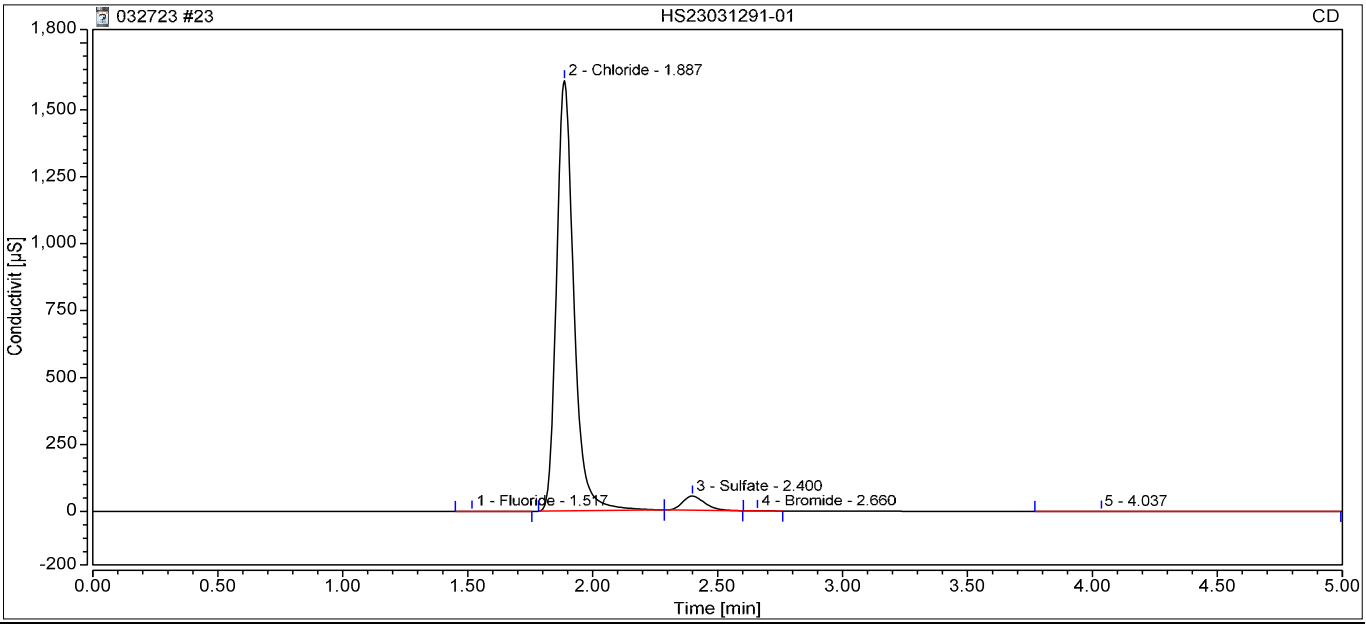
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

23 HS23031291-01

Sample Name:	**HS23031291-01**	*Injection Volume:*	**5.00**
Vial Number:	**RB1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 14:19**	*Sample Weight:*	**1.0000**

Run Time:



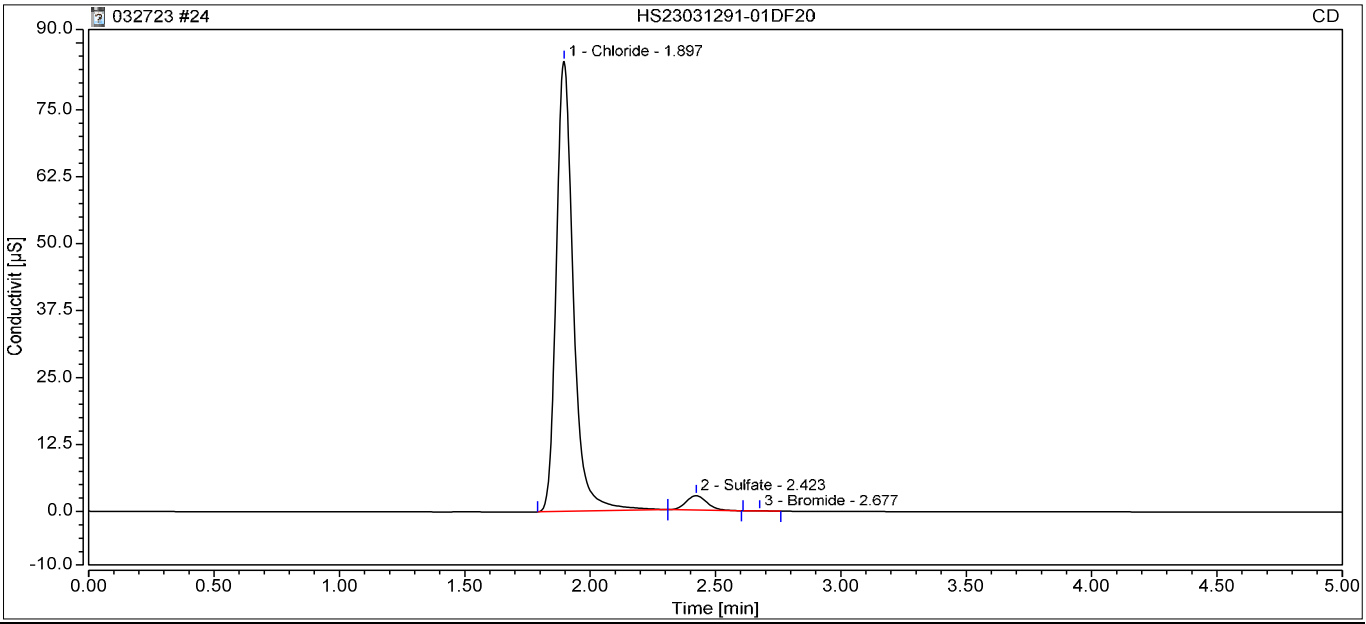
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	0.040	0.1816	0.1816	1.0000
2	1.89	Chloride	BMB	129.083	776.9761	776.9761	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
3	2.40	Sulfate	BMB	5.408	47.2590	47.2590	1.0000
4	2.66	Bromide	BMB	0.046	0.8103	0.8103	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**134.577**		**825.23**	

24 HS23031291-01DF20

Sample Name:	**HS23031291-01DF20**	*Injection Volume:*	**5.00**
Vial Number:	**RB2**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**20.0000**
Recording Time:	**03/27/2023 14:24**	*Sample Weight:*	**1.0000**

Run Time:



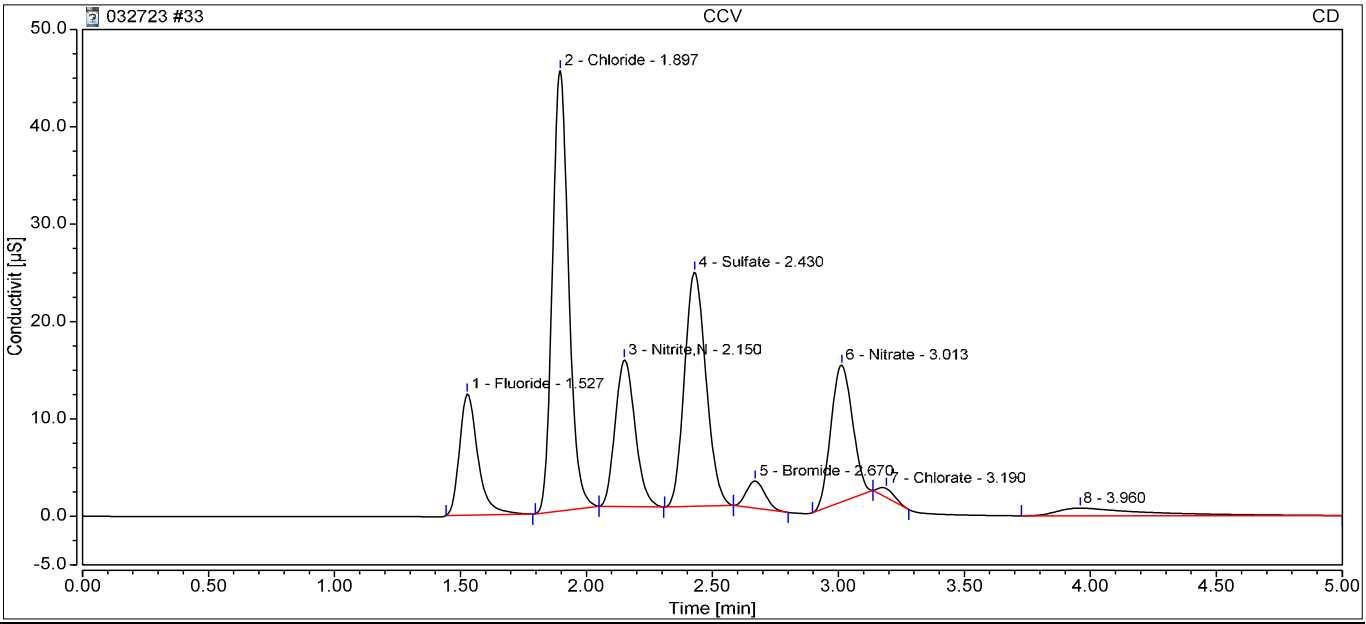
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	20.0000
1	1.90	Chloride	BMB	6.627	40.0064	800.1283	20.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	20.0000
2	2.42	Sulfate	BMB	0.259	2.3504	47.0082	20.0000
3	2.68	Bromide	BMB	0.002	0.0778	1.5564	20.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	20.0000
Total:			**0.000**	**6.888**		**848.69**	

33 CCV

Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 15:28**	*Sample Weight:*	**1.0000**

Run Time:



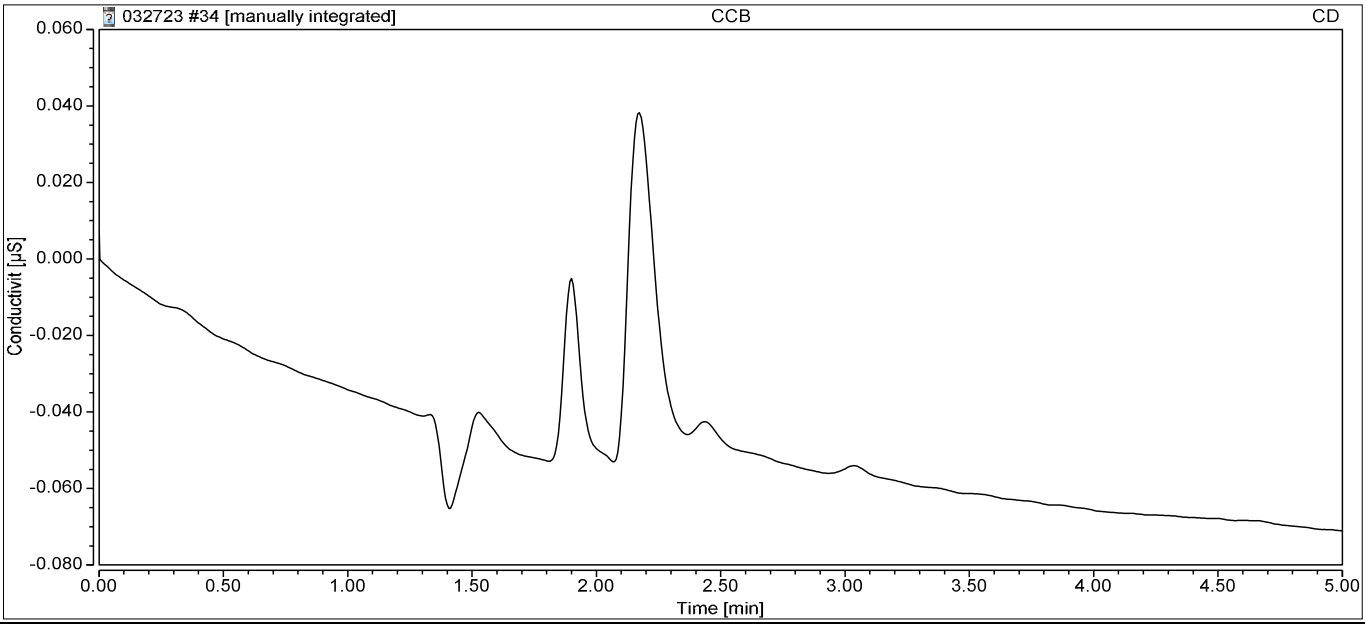
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	1.055	4.3144	4.3144	1.0000
2	1.90	Chloride	BMB	3.384	20.4876	20.4876	1.0000
3	2.15	Nitrite,N	BMB	1.381	4.1671	4.1671	1.0000
4	2.43	Sulfate	BMB	2.386	20.9068	20.9068	1.0000
5	2.67	Bromide	BMB	0.240	4.0503	4.0503	1.0000
6	3.01	Nitrate	BMB	1.397	4.1402	4.1402	1.0000
7	3.19	Chlorate	BMB	0.067	4.7472	4.7472	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.910**		**62.81**	

34 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 15:34**	*Sample Weight:*	**1.0000**

Run Time:

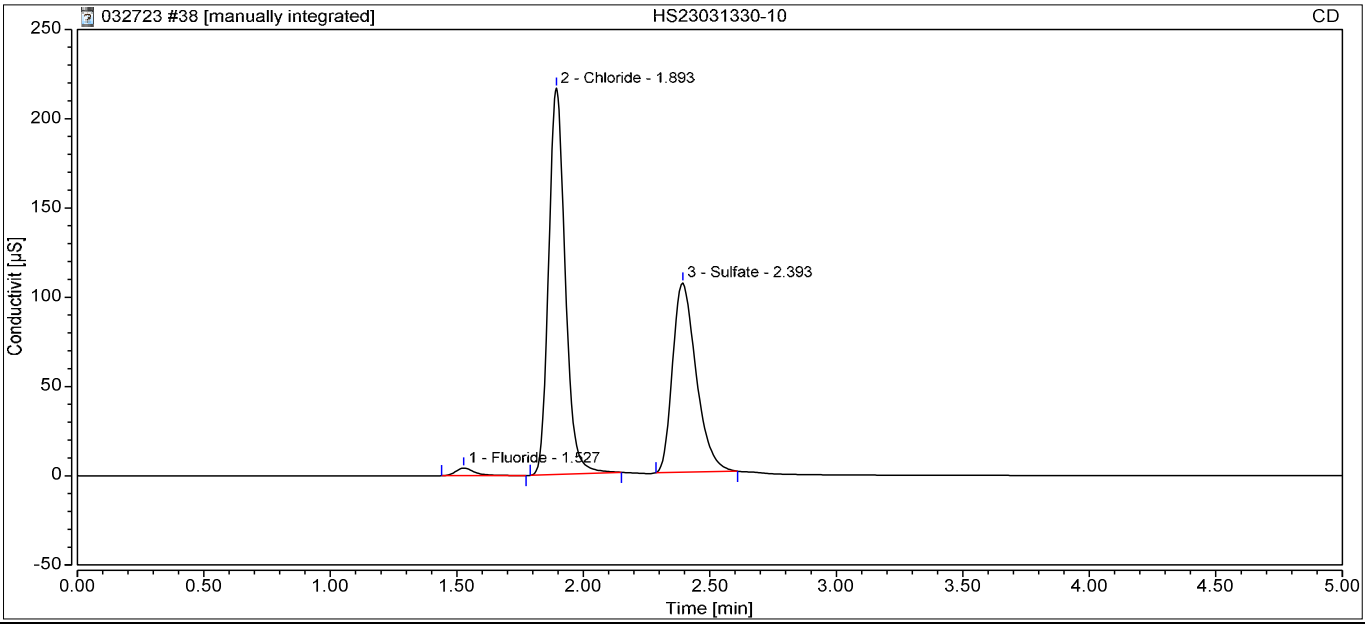


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

38 HS23031330-10			
Sample Name:	**HS23031330-10**	*Injection Volume:*	**5.00**
Vial Number:	**RC6**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 16:03**	*Sample Weight:*	**1.0000**

Run Time:



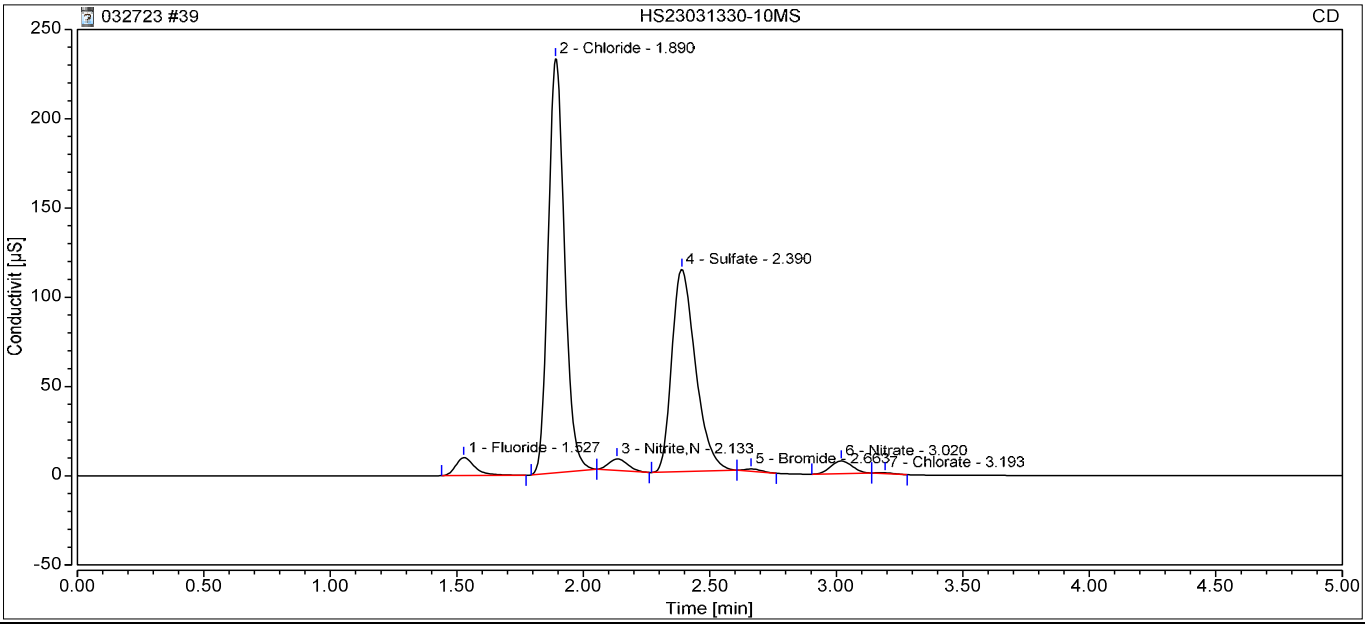
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.367	1.5135	1.5135	1.0000
2	1.89	Chloride	BMB*	16.429	98.9967	98.9967	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
3	2.39	Sulfate	BMB*	11.443	99.8899	99.8899	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**28.238**		**200.40**	

39 HS23031330-10MS

Sample Name:	**HS23031330-10MS**	*Injection Volume:*	**5.00**
Vial Number:	**RC7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 16:09**	*Sample Weight:*	**1.0000**

Run Time:



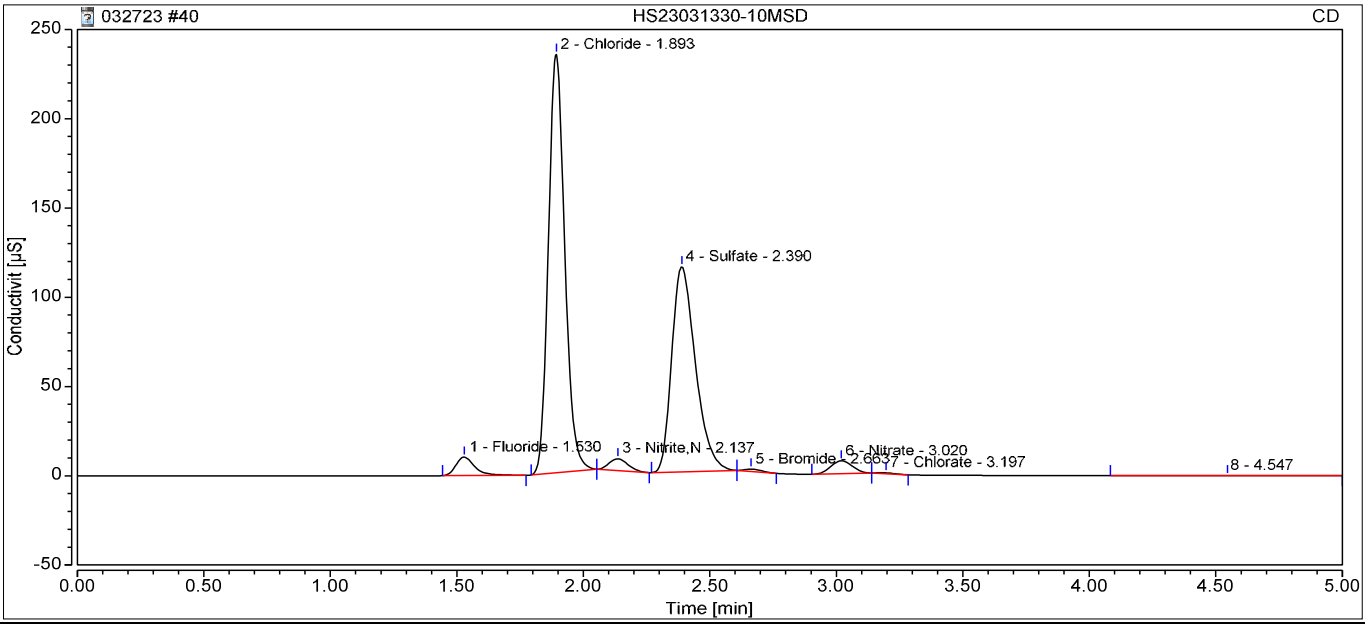
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.888	3.6344	3.6344	1.0000
2	1.89	Chloride	BMB	17.385	104.7517	104.7517	1.0000
3	2.13	Nitrite,N	BMB	0.568	1.6679	1.6679	1.0000
4	2.39	Sulfate	BMB	12.328	107.6117	107.6117	1.0000
5	2.66	Bromide	BMB	0.098	1.6810	1.6810	1.0000
6	3.02	Nitrate	BMB	0.693	2.0608	2.0608	1.0000
7	3.19	Chlorate	BMB	0.032	2.1245	2.1245	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**31.992**		**223.53**	

40 HS23031330-10MSD

Sample Name:	**HS23031330-10MSD**	*Injection Volume:*	**5.00**
Vial Number:	**RC8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 16:15**	*Sample Weight:*	**1.0000**

Run Time:



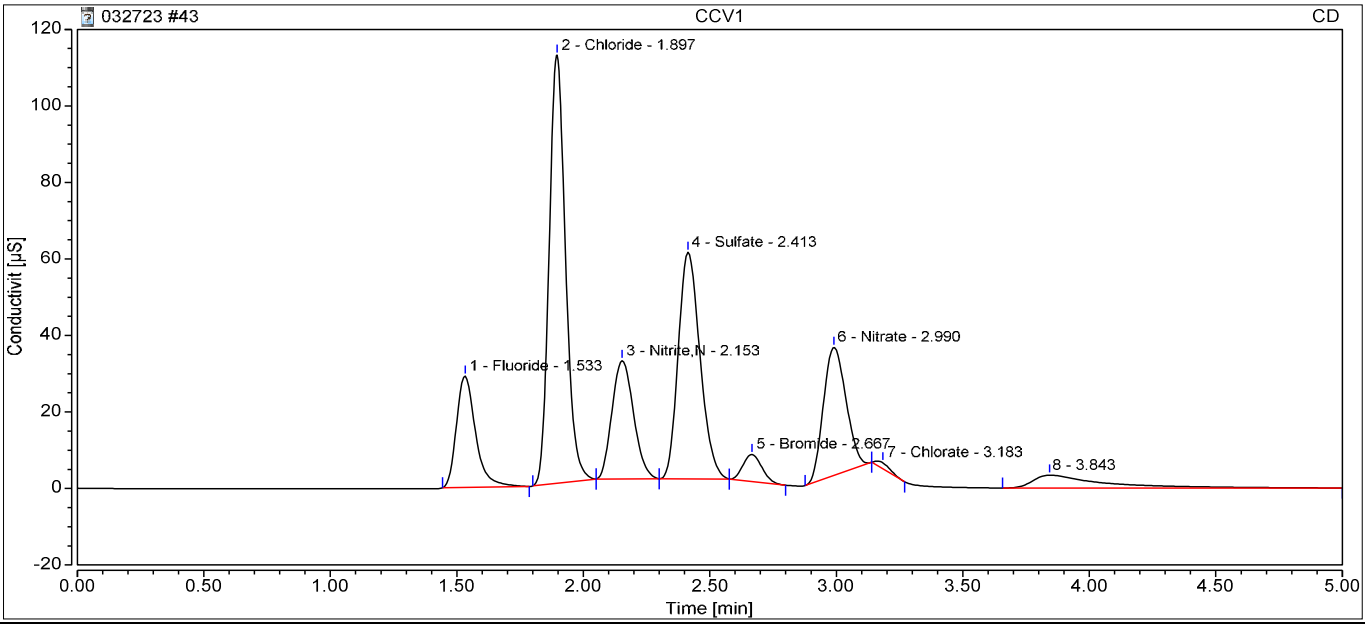
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.899	3.6779	3.6779	1.0000
2	1.89	Chloride	BMB	17.557	105.7878	105.7878	1.0000
3	2.14	Nitrite,N	BMB	0.572	1.6814	1.6814	1.0000
4	2.39	Sulfate	BMB	12.484	108.9699	108.9699	1.0000
5	2.66	Bromide	BMB	0.102	1.7411	1.7411	1.0000
6	3.02	Nitrate	BMB	0.704	2.0951	2.0951	1.0000
7	3.20	Chlorate	BMB	0.034	2.2125	2.2125	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**32.352**		**226.17**	

43 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 16:44**	*Sample Weight:*	**1.0000**

Run Time:



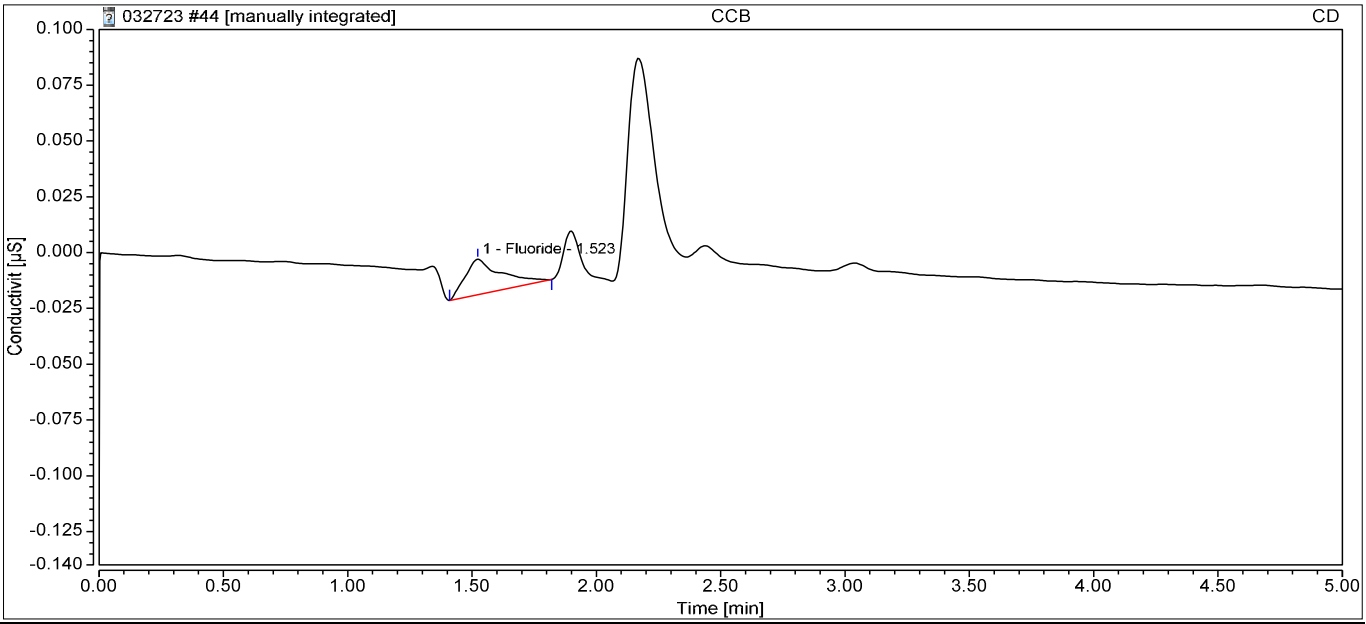
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	2.554	10.4164	10.4164	1.0000
2	1.90	Chloride	BMB	8.381	50.5646	50.5646	1.0000
3	2.15	Nitrite,N	BMB	3.056	10.0812	10.0812	1.0000
4	2.41	Sulfate	BMB	5.906	51.6039	51.6039	1.0000
5	2.67	Bromide	BMB	0.612	10.2691	10.2691	1.0000
6	2.99	Nitrate	BMB	3.470	10.2585	10.2585	1.0000
7	3.18	Chlorate	BMB	0.100	7.8095	7.8095	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**24.080**		**151.00**	

44 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**03/27/2023 16:55**	*Sample Weight:*	**1.0000**

Run Time:



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	0.003	0.0306	0.0306	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.003**		**0.03**	

HS23031291-E2300287 Perchlorate Report
Level IV

ALS WO# HS23031291

March 29, 2023 Service Request No:E2300287

Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS23031291

Dear Dane,

Enclosed are the results of the sample(s) submitted to our laboratory March 27, 2023
For your reference, these analyses have been assigned our service request number **E2300287.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300287
Project:	HS23031291	**Date Received:**	03/27/23
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 03/27/23.

The sample was received in good condition and are consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2300157: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2300287
Project: HS23031291

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300287-001	LH18/24-SP650_032123_AIX	3/21/2023	1300

Service Request Summary

Folder #: **E2300287**
Client Name: ALS Environmental - US
Project Name: HS23031291
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 03/27/23
Internal Due Date: 3/29/2023
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23031291
EDD: BASIC_WQC_CASNo_LOD

1 100 mL-Plastic Bottle NM CLEAR Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:
Rush

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2300287-001	LH18/24-SP650_032123_AIX	Water	03/21/23 1300	**IV**

Service Request Summary

Folder #: **E2300287**
Client Name: ALS Environmental - US
Project Name: HS23031291
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 03/27/23
Internal Due Date: 3/29/2023
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23031291
EDD: BASIC_WQC_CASNo_LOD

1 100 mL-Plastic Bottle NM CLEAR Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:
Rush

Test Comments:

Group	Test/Method	Samples	Comments
Semivoa GCMS	ClO4 DOD/6850	1	IV due 4/5

Data Qualifiers

HRMS Qualifier Set

*	Indicates the samples were extracted outside of the recommended holding time.
B	Indicates the associated analyte was found in the method blank at >1/10th the reported value.
E	Estimated value. The reported concentration is above the calibration range of the instrument.
J	Estimated value. The reported concentration is below the MRL.
K	The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits.The concentration of this analyte should be considered as an estimate.
P	Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.
Q	Monitored lock-mass indicates matrix-interference. Reported result is estimated.
S	Signal saturated detector. Result reported from dilution.
U	Compound was analyzed for, but was not detected (ND).
X	See Case Narrative.
Y	Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-nois ratios are greater than 10:1, making the recoveries acceptable.
i	The MDL/MRL have been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

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ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793	5/27/2023
California Department of Health Services	2919-2023	4/30/2023
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Hawaii Department of Health	2022	4/30/2023
Illinois Environmental Protection Agency	2000322022-9	5/9/2023
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Michigan Depratment of Environmental Quality	9971-2022	4/30/2023
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2023
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209422	4/24/2023
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	11707	3/31/2023
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002	5/15/2023
Pennsylvania Department of Environmental Protection	68-03441-016	6/30/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	04016-2022	4/30/2023
Texas Commision on Environmental Quality	T104704231-22-29	4/30/2023
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

ALS

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
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F: +1 281 530 5887
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Subcontract Chain of Custody

SAMPLING STATE: Colorado **COC ID:** 21214

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS23031291
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23031291-02**	**LH18/24-SP650_032123_AIX**	**Water**	**21 Mar 2023 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			29 Mar 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: NP Date/Time:

Received By: CA Date/Time: 3-23-23 0800

Cooler ID(s): Temperature(s):

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Environmental

Cooler Receipt Form

Project Chemist JA

Client/Project ALS-H

Thermometer ID 1831

Date/Time Received: 3.22.23 Initials: CH Date/Time Logged in: 3.23.23 Initials CH

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ☑ ALS Courier ○ Client

2. Samples received in: ☑ Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ○ Yes ☑ No
   Were they intact? ○ Yes ○ No ☑ N/A
   Were they signed and dated? ○ Yes ○ No ☑ N/A
   If yes, how many and where?

4. Packing Material: ○ Inserts ☑ Baggies ○ Bubble Wrap ○ Gel Packs ☑ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ○ No Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
NA		3.22.23	1800	CH	1.2	☑
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ☑ Yes ○ No
7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ☑ Yes ○ No
8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ☑ Yes ○ No
9. Were appropriate bottles/containers and volumes received for the requested tests? ☑ Yes ○ No
10. Did sample labels and tags agree with custody documents? ☑ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label:

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Houston, TX 77099
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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

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Phone (281)530-5656 Fax (281)530-5887
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Preparation Information Benchsheet

Prep Run#: 417279 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** **Prep Date/Time:** 3/28/23 08:36

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300255-001	GW-MW-66D2-20230313-01	.01	6850/ClO4			Ground Water	10mL	
2	E2300255-002	GW-MW-29D-20230313-01	.01	6850/ClO4			Ground Water	10mL	
3	E2300281-001	46DP02-GP01-4247-021523	.01	6850/ClO4 DOD			Water	10mL	
4	E2300281-002	46DP02-GP01P-4247-021523	.01	6850/ClO4 DOD			Water	10mL	
5	E2300281-003	WO-EB01-021523	.01	6850/ClO4 DOD			Water	10mL	
6	E2300281-004	46DP02-GP02-7277-021523	.01	6850/ClO4 DOD			Water	10mL	
7	E2300282-001	46DP03-GP01-4247-021623	.02	6850/ClO4 DOD			Water	10mL	
8	E2300282-002	WO-EB01-021623	.01	6850/ClO4 DOD			Water	10mL	
9	E2300282-003	46DP03-GP02-7277-021623	.01	6850/ClO4 DOD			Water	10mL	
10	E2300286-001	LH18/24-SP140_032123	.01	6850/ClO4 DOD			Water	10mL	
11	E2300287-001	LH18/24-SP650_032123_AIX	.01	6850/ClO4 DOD			Water	10mL	
12	EQ2300157-01	MB		6850/ClO4 DOD			Liquid	10mL	
13	EQ2300157-02	LCS		6850/ClO4 DOD			Liquid	10mL	
14	EQ2300157-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
15	EQ2300157-04	46DP03-GP01-4247-021623 MS	.02	6850/ClO4 DOD			Liquid	10mL	
16	EQ2300157-05	46DP03-GP01-4247-021623 DMS	.02	6850/ClO4 DOD			Liquid	10mL	
17	K2303259-001	LGAC-INT1-032023	.01	6850/ClO4			Water	10mL	
18	K2303261-001	LGAC-INF-032023	.01	6850/ClO4			Water	10mL	
19	R2302279-005	2303150909A BW-1-268	.01	6850/ClO4			Water	10mL	
20	R2302281-012	2303150953 STGT-SB-9	.01	6850/ClO4			Water	10mL	
21	R2302352-012	2303191303 100L-SB-20	.01	6850/ClO4			Water	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300157-02	1.00µL	EQ2300157-03	1.00µL	EQ2300157-04	1.00µL	EQ2300157-05	1.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 227244 Logbook Ref: Perchlorate Internal Standard Expires On: 07/31/2023

E2300255-001	100.00µL	E2300255-002	100.00µL	E2300281-001	100.00µL	E2300281-002	100.00µL	E2300281-003	100.00µL	E2300281-004	100.00µL
E2300282-001	100.00µL	E2300282-002	100.00µL	E2300282-003	100.00µL	E2300286-001	100.00µL	E2300287-001	100.00µL	EQ2300157-01	100.00µL
EQ2300157-02	100.00µL	EQ2300157-03	100.00µL	EQ2300157-04	100.00µL	EQ2300157-05	100.00µL	K2303259-001	100.00µL	K2303261-001	100.00µL
R2302279-005	100.00µL	R2302281-012	100.00µL	R2302352-012	100.00µL						

Preparation Information Benchsheet

Prep Run#: 417279 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** **Prep Date/Time:** 3/28/23 08:36

Preparation Materials

Water HPLC Grade	01/04/2023 Water (226857)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 0.45um syringe filters	6850 Syringe Filters (224414)
6850 Luer-Lok Syringes	luer-lock syringes (228116)				

Preparation Steps

Step: Preparation
Started: 3/28/23 08:36
Finished: 3/28/23 09:37
By: XMI
Comments

Comments: _____

Reviewed By: XMI Date: 03/28/23

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300287
Project:	HS23031291	**Date Collected:**	3/21/23 1300
Sample Matrix:	Water	**Date Received:**	3/27/23
Sample Name:	LH18/24-SP650_032123_AIX	**Units:**	µg/L
Lab Code:	E2300287-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0471**		0.100	0.0500	0.0250	1	3/28/23	3/28/23 14:10	417279	799088	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300287
Project:	HS23031291	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300157-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND		0.100	0.0500	0.0250	1	3/28/23	3/28/23 12:30	417279	799088	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23031291
Sample Matrix: Water

Service Request: E2300287
Date Analyzed: 3/28/23

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 417279

	Lab Control Sample EQ2300157-02			Duplicate Lab Control Sample EQ2300157-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0918	0.100	92	0.0860	0.100	86	84 - 119	7	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300287
Project:	HS23031291	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300157-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0918**		0.100	0.0500	0.0250	1	3/28/23	3/28/23 12:36	417279	799088	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300287
Project:	HS23031291	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300157-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0860**		0.100	0.0500	0.0250	1	3/28/23	3/28/23 12:42	417279	799088	

Initial Calibration

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
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20230201-793296

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XMI
2nd Review: Kneir

ICAL Date: 2/1/2023
Cal. Std. xp: 07/31/2023
ICAL ID: EC2300002

Mobile Phases : A:0.10% Formic Acid/Water 3210303-02 **B:**MeOH 224417

	Sample Name		File Name	Acquisition Method	Dilution	R	Comments	Date/Time
1	PERCHLORATE1		20230201-003	Perchlorate6850c.lcm	1x	☒	227245	2/1/2023 11:50
2	PERCHLORATE2		20230201-004	Perchlorate6850c.lcm	1x	☒	227246	2/1/2023 11:55
3	PERCHLORATE3		20230201-005	Perchlorate6850c.lcm	1x	☒	227247	2/1/2023 12:01
4	PERCHLORATE4		20230201-006	Perchlorate6850c.lcm	1x	☒	227248	2/1/2023 12:07
5	PERCHLORATE5		20230201-007	Perchlorate6850c.lcm	1x	☒	227249	2/1/2023 12:13
6	PERCHLORATE6		20230201-008	Perchlorate6850c.lcm	1x	☒	227250	2/1/2023 12:19
7	PERCHLORATE7		20230201-009	Perchlorate6850c.lcm	1x	☒	227251	2/1/2023 12:25
8	PERCHLORATE8		20230201-010	Perchlorate6850c.lcm	1x	☒	227252	2/1/2023 12:30
9	PERCHLORATE9		20230201-011	Perchlorate6850c.lcm	1x	☒	227253	2/1/2023 12:36
10	PERCHLORATE10		20230201-012	Perchlorate6850c.lcm	1x	☒	227254	2/1/2023 12:42
11	PERCHLORATEICV		20230201-013	Perchlorate6850c.lcm	1x	☒	227256	2/1/2023 12:48
12	LODV		20230201-014	Perchlorate6850c.lcm	1x	☒	225199	2/1/2023 12:54
13	ICS		20230201-015	Perchlorate6850c.lcm	1x	☒	32103024	2/1/2023 13:00
14	PERCHLORATE7		20230201-016	Perchlorate6850c.lcm	1x	☒	227251	2/1/2023 15:24
15	EQ2300047-01		20230201-017	Perchlorate6850c.lcm	1x	☒		2/1/2023 15:30
16	EQ2300047-02		20230201-018	Perchlorate6850c.lcm	1x	☒		2/1/2023 15:36
17	EQ2300047-03		20230201-019	Perchlorate6850c.lcm	1x	☒		2/1/2023 15:41
18	R2300589-005		20230201-020	Perchlorate6850c.lcm	1x	☒		2/1/2023 15:48
19	R2300589-010		20230201-021	Perchlorate6850c.lcm	1x	☒	DNU-BAD PEAK SHAPE	2/1/2023 15:54
20	R2300648-018		20230201-022	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:00
21	R2300648-025		20230201-023	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:06
22	PERCHLORATE7		20230201-024	Perchlorate6850c.lcm	1x	☒	227251	2/1/2023 16:17
23	E2300092-001		20230201-025	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:23
24	E2300092-002		20230201-026	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:29
25	E2300092-003		20230201-027	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:35
26	E2300092-004		20230201-028	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:41
27	E2300094-001		20230201-029	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:47
28	E2300094-002		20230201-030	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:52
29	E2300094-003		20230201-031	Perchlorate6850c.lcm	1x	☒		2/1/2023 16:58
30	E2300094-004		20230201-032	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:04
31	E2300094-005		20230201-033	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:10
32	PERCHLORATE7		20230201-034	Perchlorate6850c.lcm	1x	☒	227251	2/1/2023 17:16
33	E2300096-001		20230201-035	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:21
34	E2300096-002		20230201-036	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:27
35	E2300096-003		20230201-037	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:33
36	E2300096-004		20230201-038	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:39
37	E2300096-005		20230201-039	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:45
38	E2300096-006		20230201-040	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:51
39	E2300096-007		20230201-041	Perchlorate6850c.lcm	1x	☒		2/1/2023 17:56
40	PERCHLORATE7		20230201-042	Perchlorate6850c.lcm	1x	☒	227251	2/1/2023 18:02

Initial Calibration - Detailed Report

Calibration ID: EC2300002 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2300002-01	PERCHLORATE1	20230201-003	02/01/2023 11:50
02	EC2300002-02	PERCHLORATE2	20230201-004	02/01/2023 11:55
03	EC2300002-03	PERCHLORATE3	20230201-005	02/01/2023 12:01
04	EC2300002-04	PERCHLORATE4	20230201-006	02/01/2023 12:07
05	EC2300002-05	PERCHLORATE5	20230201-007	02/01/2023 12:13
06	EC2300002-06	PERCHLORATE6	20230201-008	02/01/2023 12:19
07	EC2300002-07	PERCHLORATE7	20230201-009	02/01/2023 12:25
08	EC2300002-08	PERCHLORATE8	20230201-010	02/01/2023 12:30
09	EC2300002-09	PERCHLORATE9	20230201-011	02/01/2023 12:36
10	EC2300002-10	PERCHLORATE10	20230201-012	02/01/2023 12:42

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 4.86** **Average RF = 0.1385**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1253	02	0.5000	0.13	03	0.7000	0.1346	04	1.0000	0.1399
05	2.0000	0.1406	06	5.0000	0.1404	07	10.0000	0.1416	08	20.0000	0.1407
09	30.0000	0.1447	10	50.0000	0.1477						

Analyte

Perchlorate RSE = 4.86

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0904	-9.6	02	0.5000	0.469	-6.1	03	0.7000	0.680	-2.8
04	1.0000	1.01	0.9	05	2.0000	2.03	1.5	06	5.0000	5.07	1.3
07	10.0000	10.2	2.2	08	20.0000	20.3	1.5	09	30.0000	31.3	4.5
10	50.0000	53.3	6.6								

Initial Calibration Verification Summary Report

Calibration ID:	EC2300002	**Instrument ID:**	E-LCMS-01
Datafile ID:	20230201-013	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2300002-11	T	Average RF	10	10.538	ng/mL	5.4	<= 15

Insight Report

Printed at 2/1/2023 2:06:14 PM

Method File: I:\LCMS01\DATA\02012023\20230201.lcm
Project File: I:\LCMS01\DATA\02012023\20230201.damlp

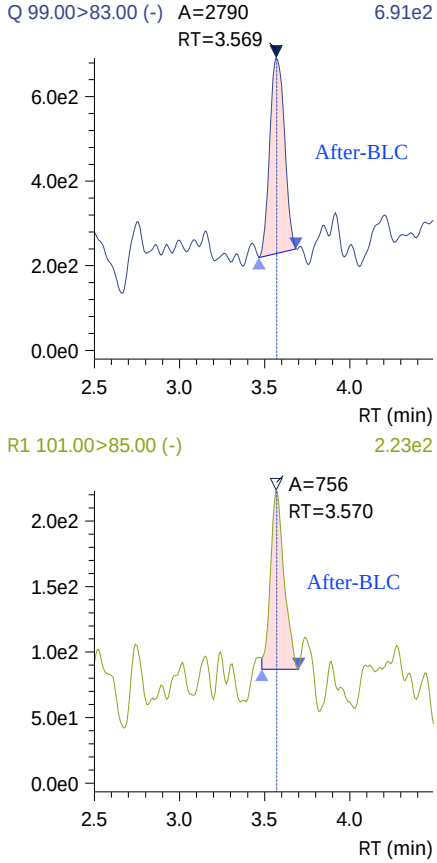
PERCHLORATE1

Sample ID: PERCHLORATE1
Date Acquired: 2/1/2023 11:50:11 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-003.lcd
Vial: 1 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.569	2790	222693	0.0904	ng/mL	101.00 >85.00	27.11	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.568	222693	222693	1.0000	ng/mL	----	----	

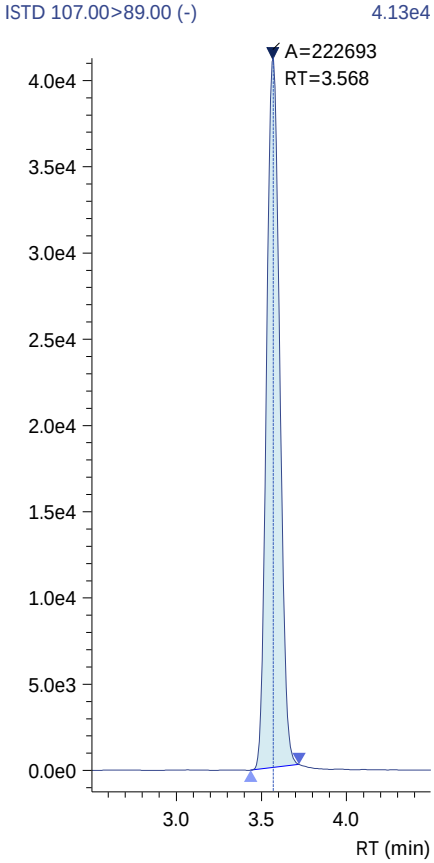
Perchlorate

Conc 0.0904
R#1 27.11 (31.99)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 2/1/2023 1:30:25 PM

Method File: I:\LCMS01\DATA\20230201\20230201ICAL.lcm
Project File: I:\LCMS01\DATA\20230201\20230201ICAL.damIp

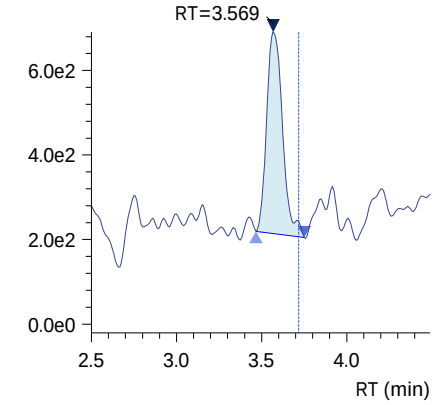
PERCHLORATE1

Sample ID: PERCHLORATE1
Date Acquired: 2/1/2023 11:50:11 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-003.lcd
Vial: 1 | Inj. Volume: 25.0000uL | Tray: 1

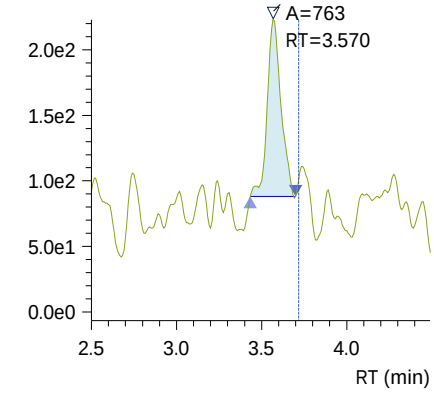
Perchlorate

Conc 0.0996
R#1 24.56 (34.45)

Q 99.00>83.00 (-) A=3105 6.91e2



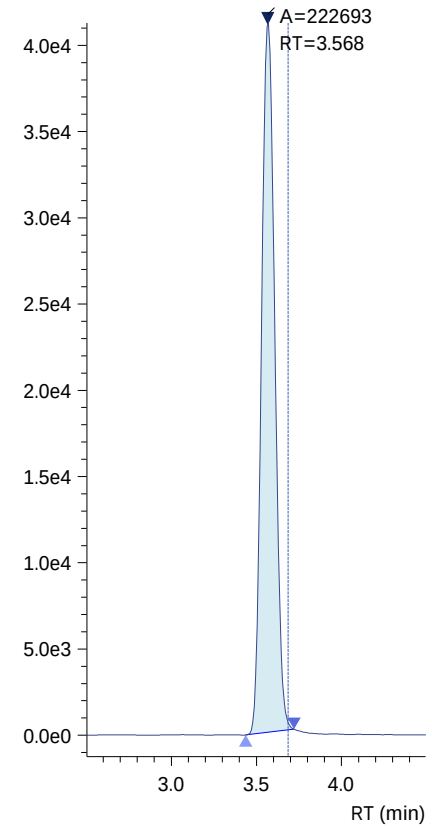
R1 101.00>85.00 (-) 2.23e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.13e4



Insight Report

Printed at 2/1/2023 2:06:14 PM

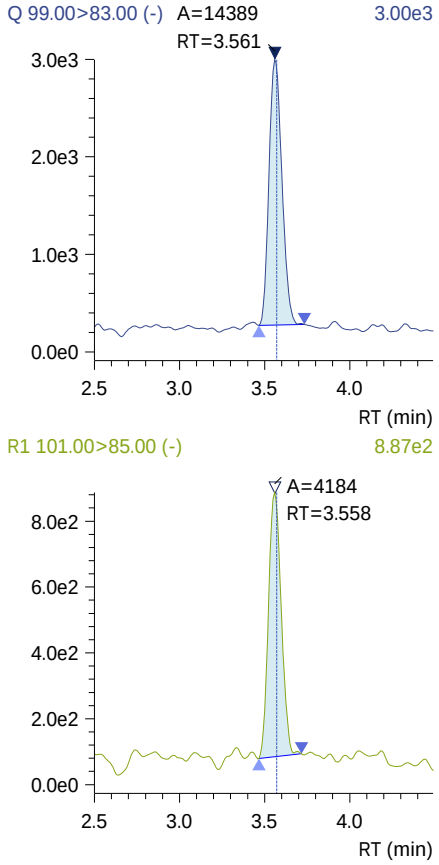
PERCHLORATE2

Sample ID: PERCHLORATE2
Date Acquired: 2/1/2023 11:55:59 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-004.lcd
Vial: 2 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.561	14389	221291	0.4694	ng/mL	101.00 >85.00	29.08	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.558	221291	221291	1.0000	ng/mL	----	----	

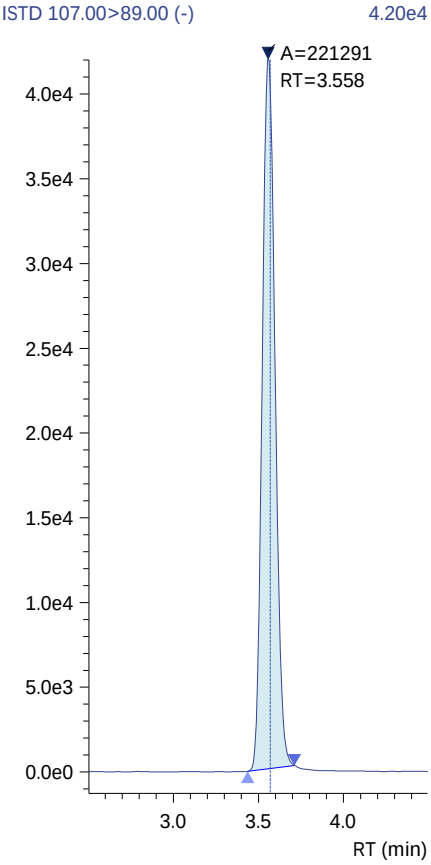
Perchlorate

Conc 0.4694
R#1 29.08 (31.99)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATE3

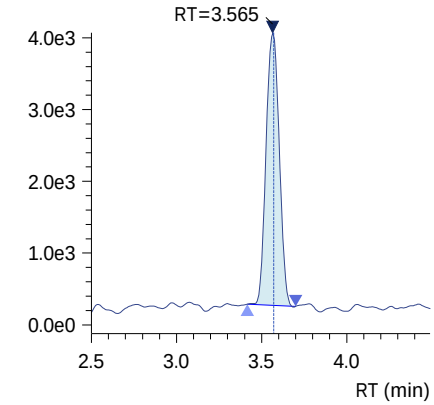
Sample ID: PERCHLORATE3
Date Acquired: 2/1/2023 12:01:49 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-005.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.565	20476	217325	0.6801	ng/mL	101.00 >85.00	34.44	24.11 -44.78
Sodium Perchlorate-18O4 _IS	Auto	3.559	2173 25	217325	1.0000	ng/mL	----	----	

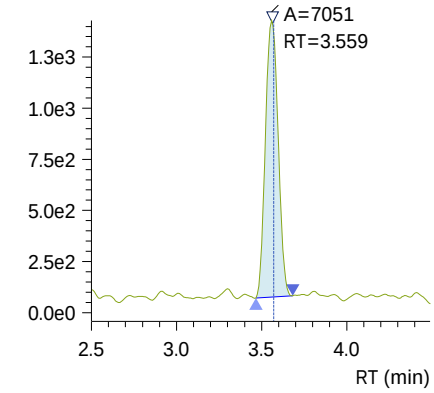
Perchlorate

Conc 0.6801
R#1 34.44 (31.99)

Q 99.00>83.00 (-) A=20476 RT=3.565 4.07e3



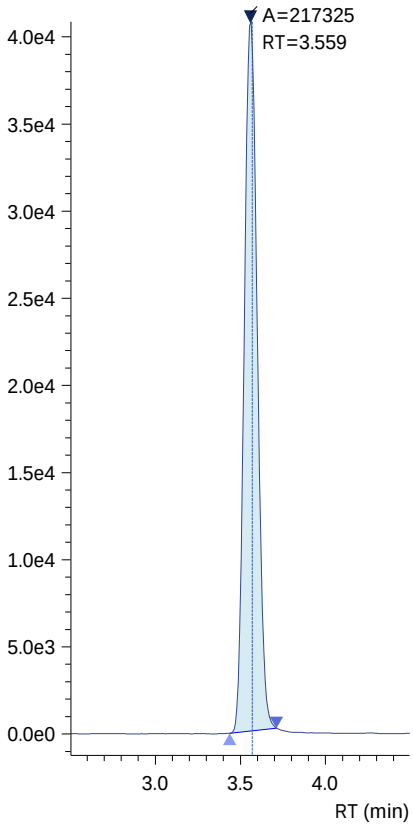
R1 101.00>85.00 (-) 1.43e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.09e4



Insight Report

Printed at 2/1/2023 2:06:14 PM

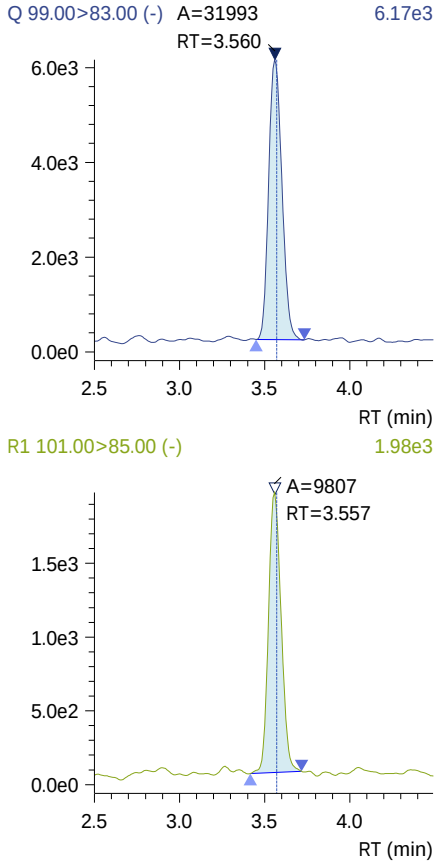
PERCHLORATE4

Sample ID: PERCHLORATE4
Date Acquired: 2/1/2023 12:07:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-006.lcd
Vial: 4 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.560	31993	228763	1.0095	ng/mL	101.00 >85.00	30.65	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.557	228763	228763	1.0000	ng/mL	----	----	

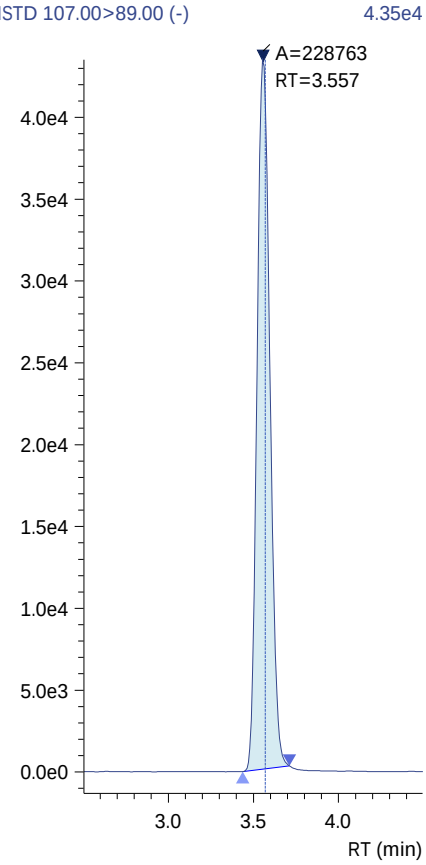
Perchlorate

Conc 1.0095
R#1 30.65 (31.99)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATE5

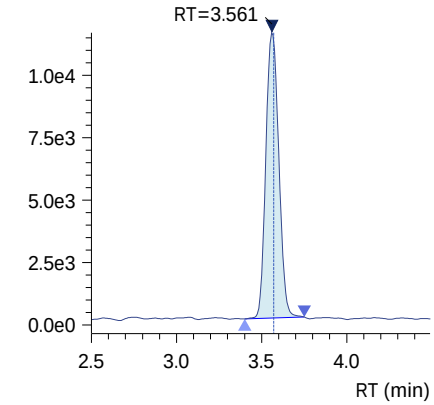
Sample ID: PERCHLORATE5
Date Acquired: 2/1/2023 12:13:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-007.lcd
Vial: 5 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.561	60751	216066	2.0296	ng/mL	101.00 >85.00	32.70	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.557	216066	216066	1.0000	ng/mL	----	----	

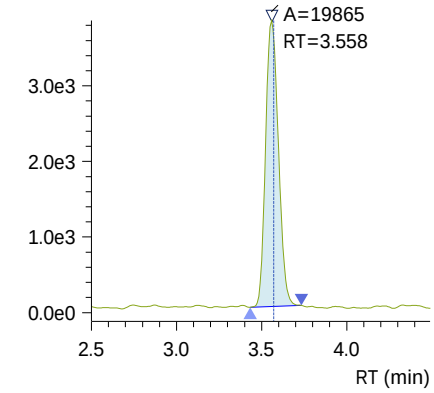
Perchlorate

Conc 2.0296
R#1 32.70 (31.99)

Q 99.00>83.00 (-) A=60751 1.17e4



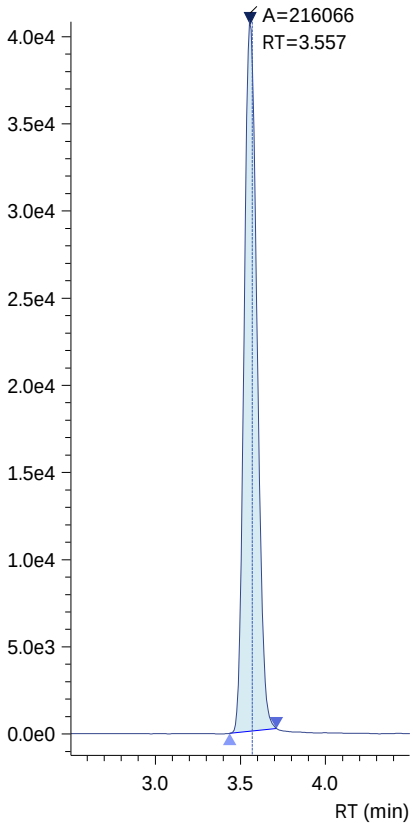
R1 101.00>85.00 (-) 3.87e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.09e4



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATE6

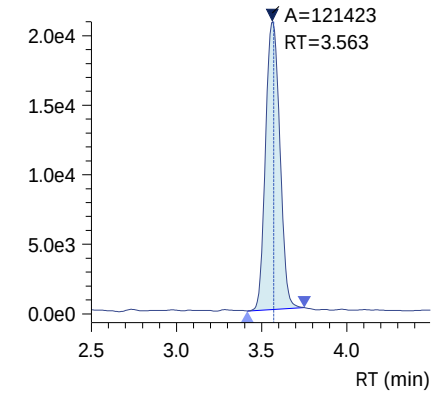
Sample ID: PERCHLORATE6
Date Acquired: 2/1/2023 12:19:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-008.lcd
Vial: 6 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.563	121423	172986	5.0667	ng/mL	101.00	32.55	24.11
							>85.00		-44.78
Sodium Perchlorate-18O4_IS	Auto	3.558	172986	172986	1.0000	ng/mL	----	----	

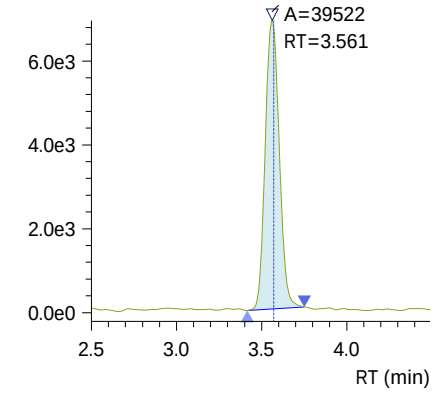
Perchlorate

Conc 5.0667
R#1 32.55 (31.99)

Q 99.00>83.00 (-) 2.10e4



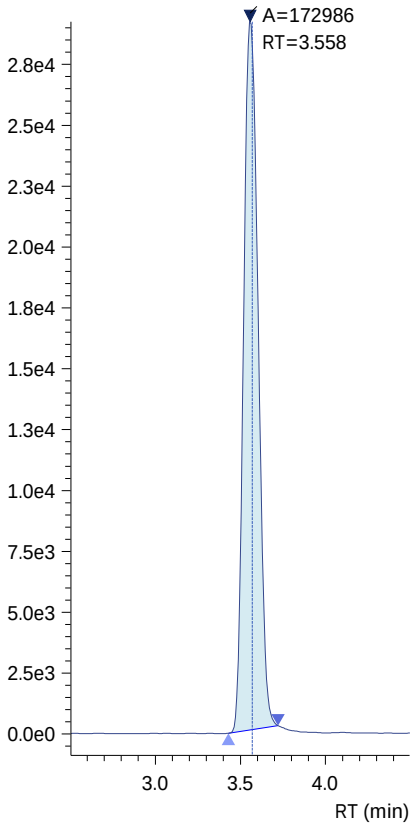
R1 101.00>85.00 (-) 6.97e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.93e4



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATE7

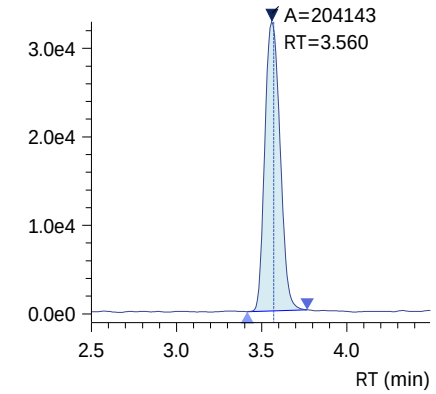
Sample ID: PERCHLORATE7
Date Acquired: 2/1/2023 12:25:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-009.lcd
Vial: 7 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.560	2041 43	144196	10.2 192	ng/mL	101.00 >85.00	31.99	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.555	144196	144196	1.0000	ng/mL	----	----	

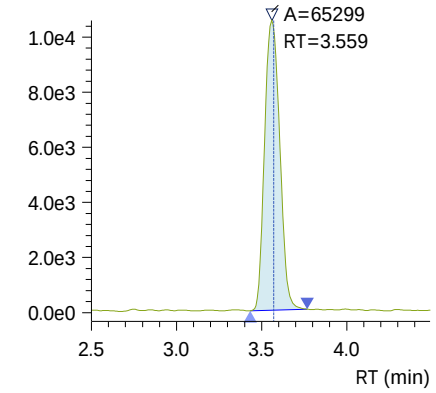
Perchlorate

Conc 10.2192
R#1 31.99 (31.99)

Q 99.00>83.00 (-) 3.30e4



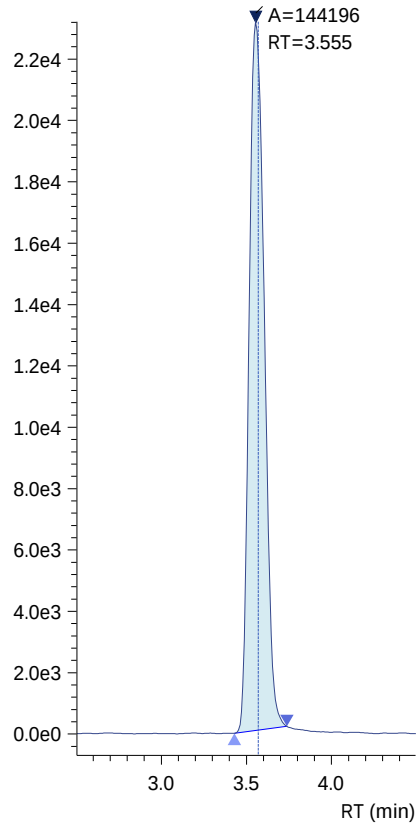
R1 101.00>85.00 (-) 1.06e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.32e4



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATE8

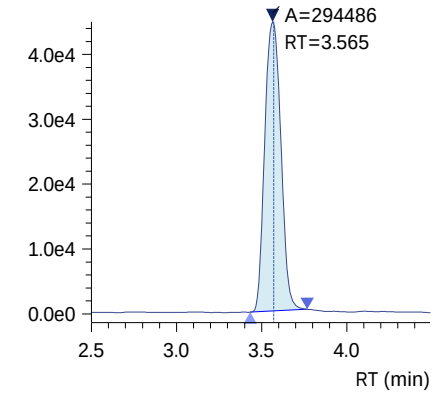
Sample ID: PERCHLORATE8
Date Acquired: 2/1/2023 12:30:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-010.lcd
Vial: 8 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.565	294486	104680	20.3065	ng/mL	101.00 >85.00	32.66	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.557	104680	104680	1.0000	ng/mL	----	----	

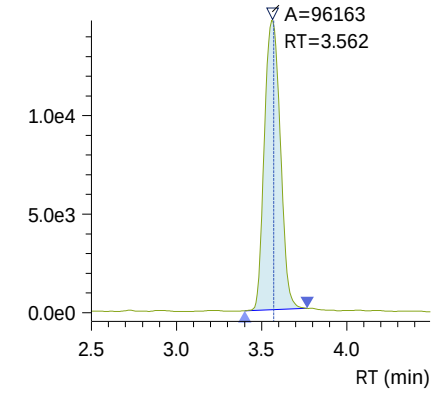
Perchlorate

Conc 20.3065
R#1 32.66 (31.99)

Q 99.00>83.00 (-) 4.50e4



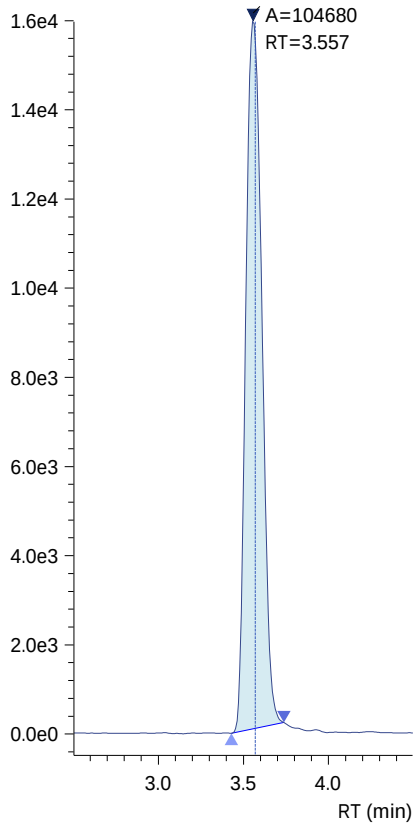
R1 101.00>85.00 (-) 1.48e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.60e4



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATE9

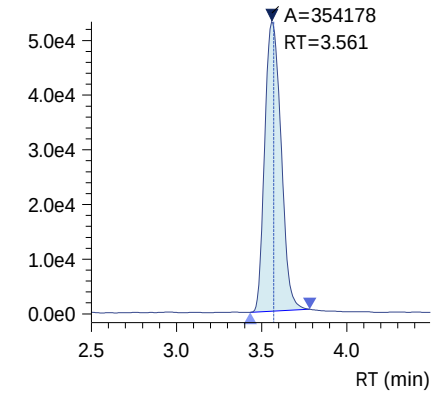
Sample ID: PERCHLORATE9
Date Acquired: 2/1/2023 12:36:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-011.lcd
Vial: 9 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.561	3541	81577	31.3	ng/mL	101.00	31.89	24.11
			78		395		>85.00		-44.78
Sodium Perchlorate-18O4 _IS	Auto	3.557	81577	81577	1.0000	ng/mL	----	----	

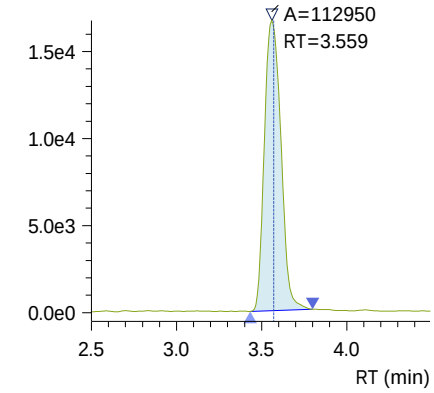
Perchlorate

Conc 31.3395
R#1 31.89 (31.99)

Q 99.00>83.00 (-) 5.34e4



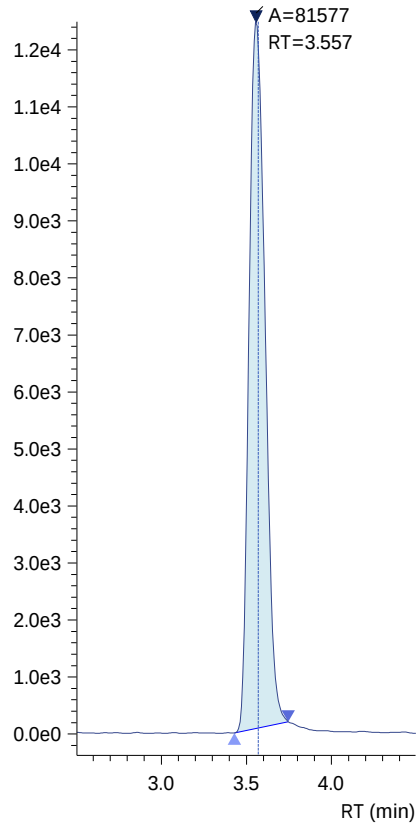
R1 101.00>85.00 (-) 1.68e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.25e4



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATE10

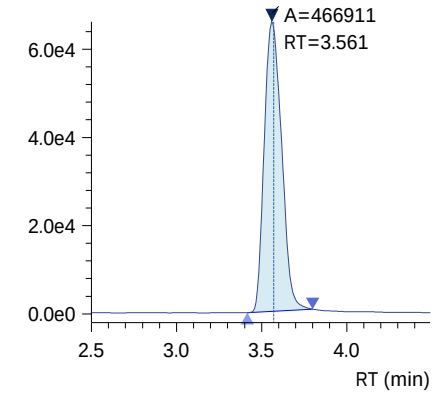
Sample ID: PERCHLORATE10
Date Acquired: 2/1/2023 12:42:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-012.lcd
Vial: 10 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.561	4669	63237	53.2	ng/mL	101.00	32.40	24.11
			11		964		>85.00		-44.78
Sodium Perchlorate-18O4_IS	Auto	3.554	63237	63237	1.0000	ng/mL	----	----	

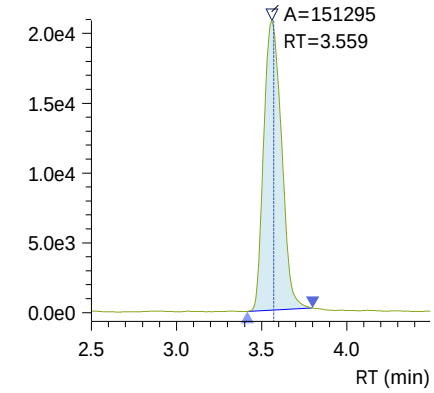
Perchlorate

Conc 53.2964
R#1 32.40 (31.99)

Q 99.00>83.00 (-) 6.62e4



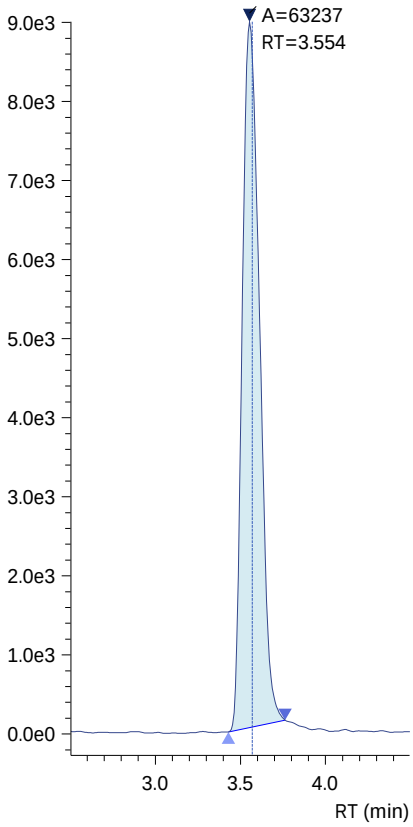
R1 101.00>85.00 (-) 2.09e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 9.01e3



Insight Report

Printed at 2/1/2023 2:06:14 PM

PERCHLORATEICV

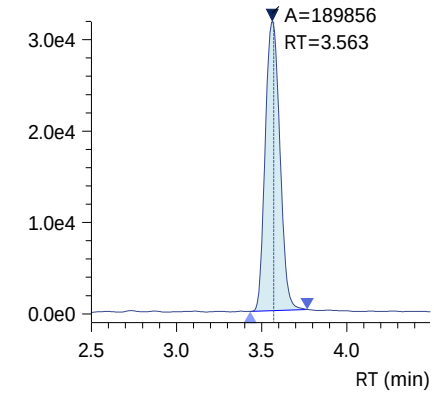
Sample ID: PERCHLORATEICV
Date Acquired: 2/1/2023 12:48:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-013.lcd
Vial: 11 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.563	189856 1898	130049	10.5 379	ng/mL	101.00 >85.00	32.76	24.11 -44.78
Sodium Perchlorate-18O4_IS	Auto	3.557	130049	130049	1.0000	ng/mL	----	----	

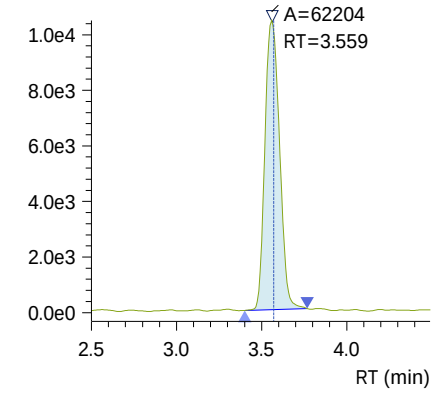
Perchlorate

Conc 10.5379
R#1 32.76 (31.99)

Q 99.00>83.00 (-) 3.20e4



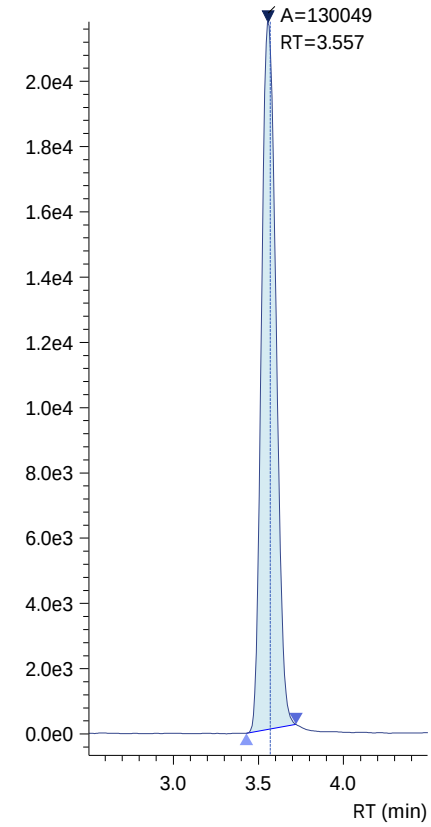
R1 101.00>85.00 (-) 1.05e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.18e4



Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

20230328-799088

Injection Log

LCMS01 -Shimadzu 8050

1st Review: XMI
2nd Review: KNEIR

ICAL Date: 2/1/2023
Cal. Std. xp: 07/31/2023
ICAL ID: EC2300002

Mobile Phases : A:0.10% Formic Acid/Water 3210303-06 **B:**MeOH 224417

	Sample Name		File Name	Acquisition Method	Dilution	R	Comments	Date/Time
1	LODV		20230328-002	Perchlorate6850c.lcm	1x	☒		3/28/2023 12:07
2	IB		20230328-001	Perchlorate6850c.lcm	1x	☒	227501	3/28/2023 12:13
3	ICS		20230328-003	Perchlorate6850c.lcm	1x	☒	32103024	3/28/2023 12:19
4	PERCHLORATE7		20230328-004	Perchlorate6850c.lcm	1x	☒	227251	3/28/2023 12:24
5	EQ2300157-01		20230328-005	Perchlorate6850c.lcm	1x	☒		3/28/2023 12:30
6	EQ2300157-02		20230328-006	Perchlorate6850c.lcm	1x	☒		3/28/2023 12:36
7	EQ2300157-03		20230328-007	Perchlorate6850c.lcm	1x	☒		3/28/2023 12:42
8	E2300255-001		20230328-008	Perchlorate6850c.lcm	1x	☒		3/28/2023 12:48
9	E2300255-002		20230328-009	Perchlorate6850c.lcm	500x	☒		3/28/2023 12:54
10	E2300281-001		20230328-010	Perchlorate6850c.lcm	1x	☒		3/28/2023 13:00
11	E2300281-002		20230328-011	Perchlorate6850c.lcm	1x	☒	DNU-IR	3/28/2023 13:05
12	E2300281-003		20230328-012	Perchlorate6850c.lcm	1x	☒		3/28/2023 13:11
13	E2300281-004		20230328-013	Perchlorate6850c.lcm	1x	☒		3/28/2023 13:17
14	PERCHLORATE7		20230328-014	Perchlorate6850c.lcm	1x	☒	227251	3/28/2023 13:23
15	E2300282-001		20230328-015	Perchlorate6850c.lcm	1x	☒		3/28/2023 13:28
16	EQ2300157-04		20230328-016	Perchlorate6850c.lcm	1x	☒		3/28/2023 13:34
17	EQ2300157-05		20230328-017	Perchlorate6850c.lcm	1x	☒		3/28/2023 13:47
18	E2300282-002		20230328-018	Perchlorate6850c.lcm	1x	☒		3/28/2023 13:53
19	E2300282-003		20230328-019	Perchlorate6850c.lcm	1x	☒		3/28/2023 13:58
20	E2300286-001		20230328-020	Perchlorate6850c.lcm	1000x	☒		3/28/2023 14:04
21	E2300287-001		20230328-021	Perchlorate6850c.lcm	1x	☒		3/28/2023 14:10
22	K2303259-001		20230328-022	Perchlorate6850c.lcm	1x	☒		3/28/2023 14:16
23	K2303261-001		20230328-023	Perchlorate6850c.lcm	1x	☒		3/28/2023 14:21
24	R2302279-005		20230328-024	Perchlorate6850c.lcm	1x	☒		3/28/2023 14:33
25	PERCHLORATE7		20230328-025	Perchlorate6850c.lcm	1x	☒	227251	3/28/2023 14:39
26	R2302281-012		20230328-026	Perchlorate6850c.lcm	1x	☒	DNU-CCV out of range	3/28/2023 14:45
27	R2302352-012		20230328-027	Perchlorate6850c.lcm	1x	☒	DNU-CCV out of range	3/28/2023 14:51
28	E2300281-002		20230328-028	Perchlorate6850c.lcm	1x	☒	DNU-CCV out of range	3/28/2023 14:56
29	PERCHLORATE7		20230328-031	Perchlorate6850c.lcm	1x	☒	DNU-FAILED	3/28/2023 15:13

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300287
Project:	HS23031291	**Date Analyzed:**	3/28/23 12:24

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230328\20230328-004	**Lab Code:**	EQ2300159-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	799088
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	167,281	3.56
	Upper Limit ==>	250,922	5.56
	Lower Limit ==>	83,641	1.56
Associated Analyses			
Continuing Calibration Verification	EQ2300159-01	145,562	3.36
Method Blank	EQ2300157-01	243,273	3.36
Lab Control Sample	EQ2300157-02	241,586	3.36
Duplicate Lab Control Sample	EQ2300157-03	244,193	3.36

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300287
Project:	HS23031291	**Date Analyzed:**	3/28/23 13:23

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230328\20230328-014	**Lab Code:**	EQ2300159-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	799088
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	167,281	3.56
	Upper Limit ==>	250,922	5.56
	Lower Limit ==>	83,641	1.56
Associated Analyses			
Continuing Calibration Verification	EQ2300159-02	149,008	3.36
LH18/24-SP650_032123_AIX	E2300287-001	250,437	3.37

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300287
Project:	HS23031291	**Date Analyzed:**	3/28/23 14:39

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230328\20230328-025	**Lab Code:**	EQ2300159-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	799088
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	167,281	3.56
	Upper Limit ==>	250,922	5.56
	Lower Limit ==>	83,641	1.56
Associated Analyses			
Continuing Calibration Verification	EQ2300159-03	172,572	3.36

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300287
Project:	HS23031291	**Date Analyzed:**	3/28/23 15:13

Internal Standard Area and RT Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID:	I:\LCMS01\DATA\20230328\20230328-031	**Lab Code:**	EQ2300159-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	799088
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	167,281	3.56
	Upper Limit ==>	250,922	5.56
	Lower Limit ==>	83,641	1.56
Associated Analyses			
Continuing Calibration Verification	EQ2300159-04	124,359	3.36

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23031291

Service Request: E2300287
Date Analyzed: 3/28/23

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20230328\20230328-004

Calibration Date: 2/1/23
Calibration ID: EC2300002
Analysis Lot: 799088
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.1	0.1385	0.1538	11.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23031291

Service Request: E2300287
Date Analyzed: 3/28/23

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20230328\20230328-014

Calibration Date: 2/1/23
Calibration ID: EC2300002
Analysis Lot: 799088
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.7	0.1385	0.1481	6.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23031291

Service Request: E2300287
Date Analyzed: 3/28/23

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20230328\20230328-025

Calibration Date: 2/1/23
Calibration ID: EC2300002
Analysis Lot: 799088
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.8	0.1385	0.1492	7.7	NA	± 15 %	Average RF

Insight Report

Printed at 3/28/2023 3:45:09 PM

Method File: I:\LCMS01\DATA\20230328\20230328.lcm
Project File: I:\LCMS01\DATA\20230328\20230328.damlp

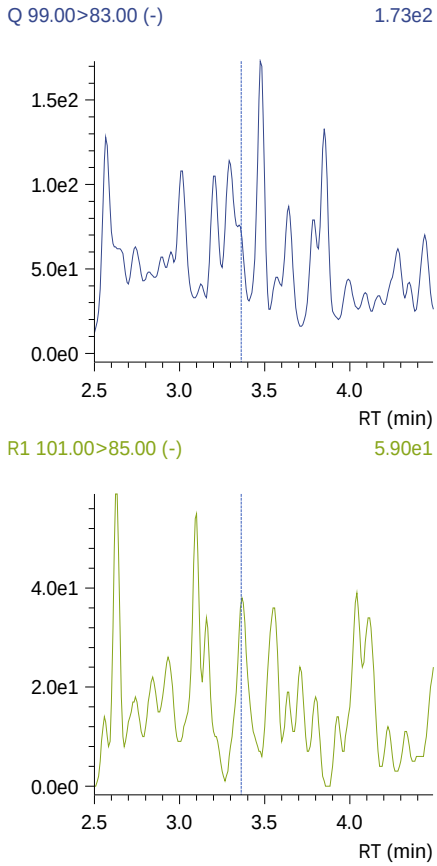
IB

Sample ID: IB
Date Acquired: 3/28/2023 12:13:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230328\20230328-001-1.lcd
Vial: 4 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	224032	----	ng/mL	101.00 >85.00	0.00	22.56 -41.90
Sodium Perchlorate-18O4_IS	Auto	3.363	224032	224032	1.0000	ng/mL	----	----	

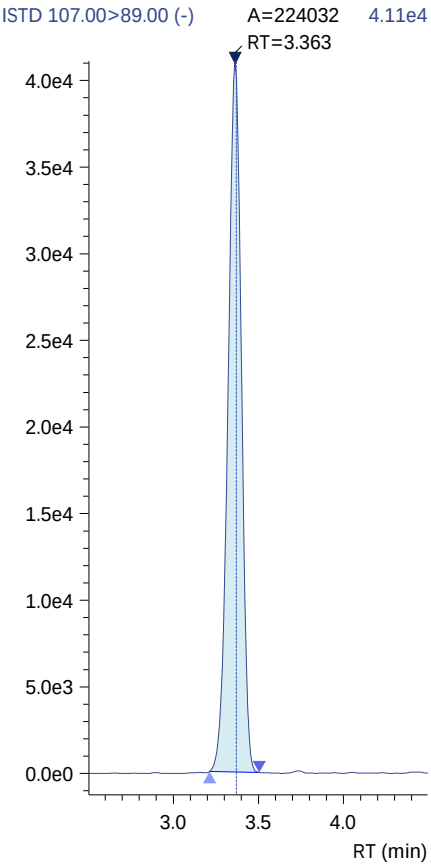
Perchlorate

Conc ----
R#1 0.00 (32.23)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/28/2023 3:45:09 PM

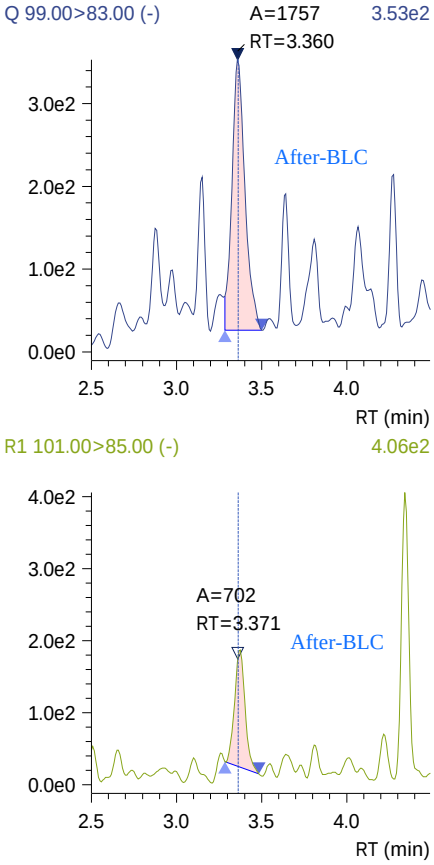
LODV

Sample ID: LODV
Date Acquired: 3/28/2023 12:07:46 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230328\20230328-002.lcd
Vial: 1 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.360	1757	221934	0.0571	ng/mL	101.00 >85.00	39.97	22.56 -41.90
Sodium Perchlorate-18O4_IS	Auto	3.361	221934	221934	1.0000	ng/mL	----	----	

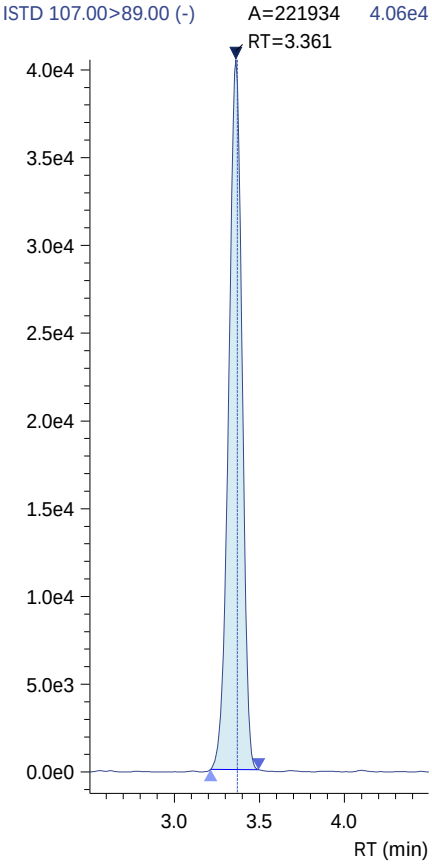
Perchlorate

Conc 0.0571
R#1 39.97 (32.23)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/28/2023 3:53:30 PM

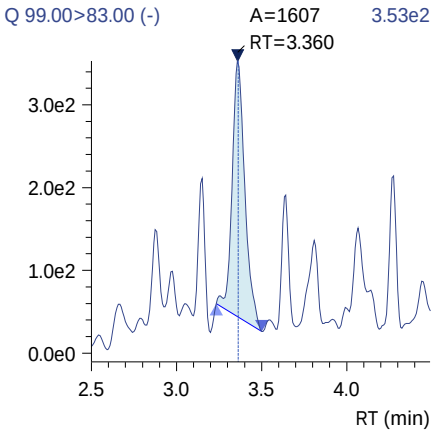
Method File: I:\LCMS01\DATA\20230328\20230328.lcm
Project File: I:\LCMS01\DATA\20230328\20230328.damlp

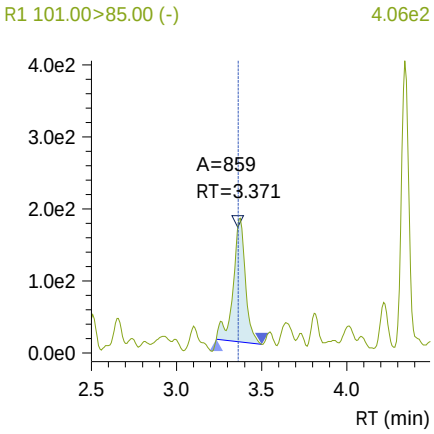
LODV

Sample ID: LODV
Date Acquired: 3/28/2023 12:07:46 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230328\20230328-002.lcd
Vial: 1 | Inj. Volume: 25.0000uL | Tray: 0

Perchlorate

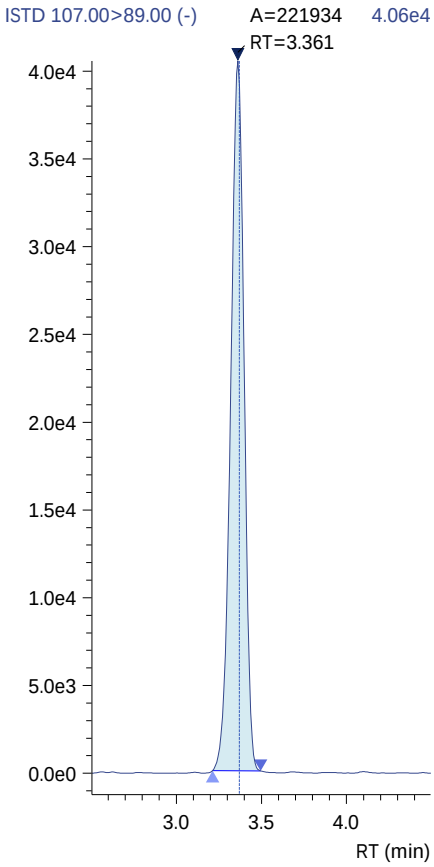
Conc 0.0523
R#1 53.44 (32.23)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/28/2023 3:45:09 PM

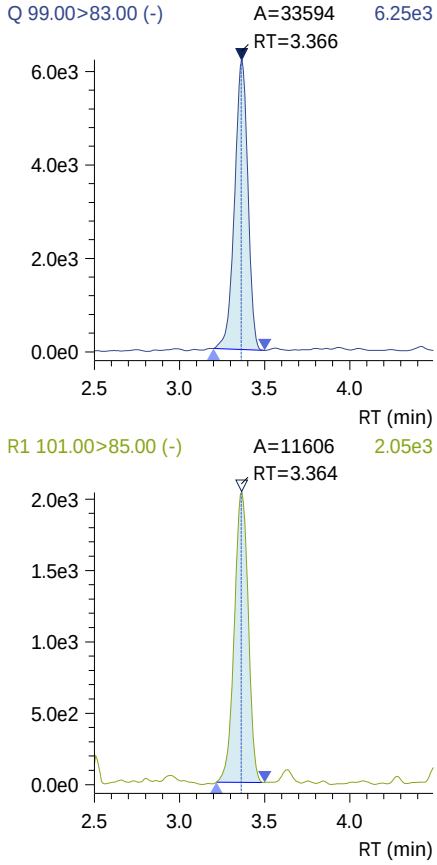
ICS

Sample ID: ICS
Date Acquired: 3/28/2023 12:19:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230328\20230328-003.lcd
Vial: 2 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.366	33594	232382	1.0435	ng/mL	101.00 >85.00	34.55	22.56 -41.90
Sodium Perchlorate-18O4_IS	Auto	3.362	232382	232382	1.0000	ng/mL	----	----	

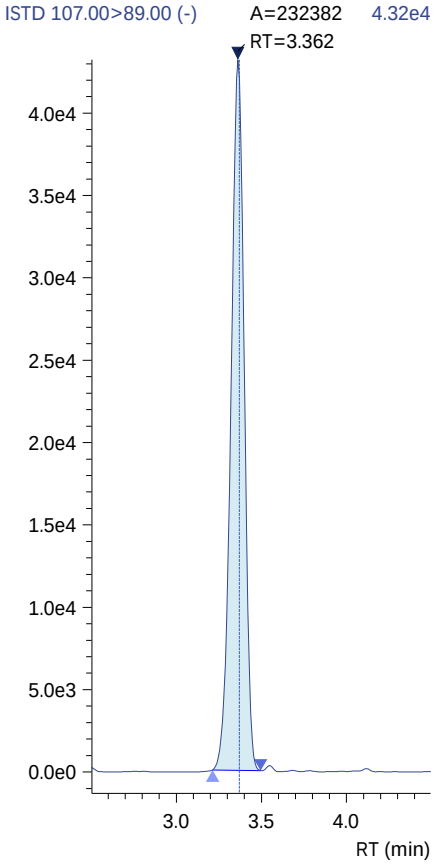
Perchlorate

Conc 1.0435
R#1 34.55 (32.23)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/28/2023 3:45:09 PM

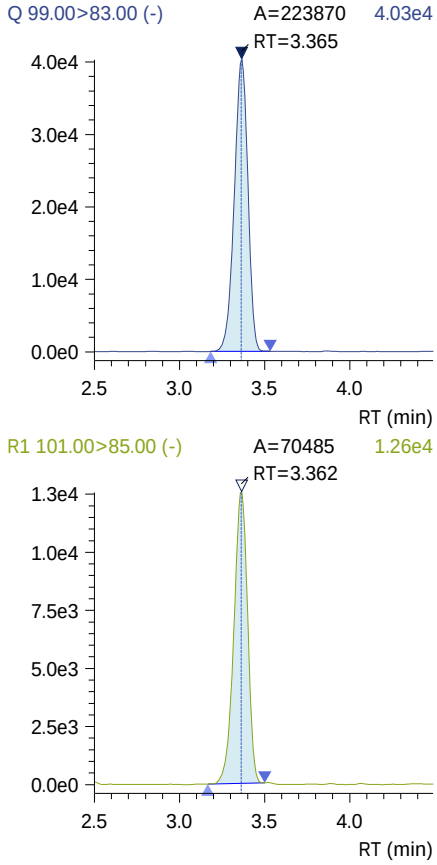
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 3/28/2023 12:24:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230328\20230328-004.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.365	223870	145562	11.1015	ng/mL	101.00 >85.00	31.49	22.56 -41.90
Sodium Perchlorate-18O4_IS	Auto	3.361	145562	145562	1.0000	ng/mL	----	----	

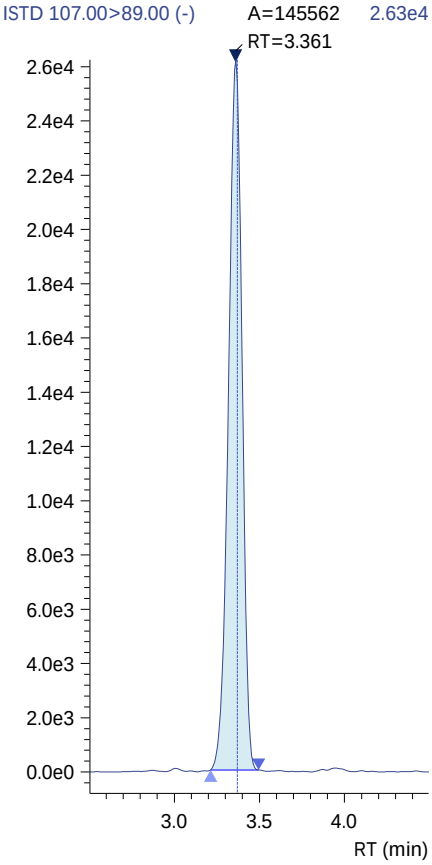
Perchlorate

Conc 11.1015
R#1 31.49 (32.23)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/28/2023 3:45:09 PM

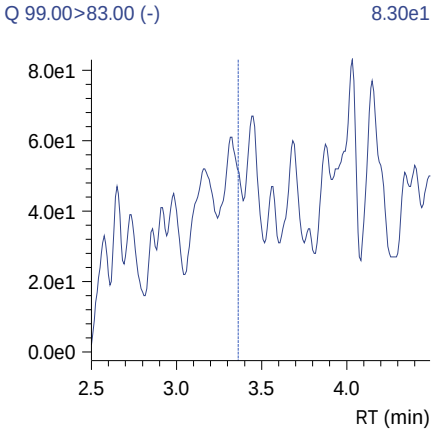
EQ2300157-01

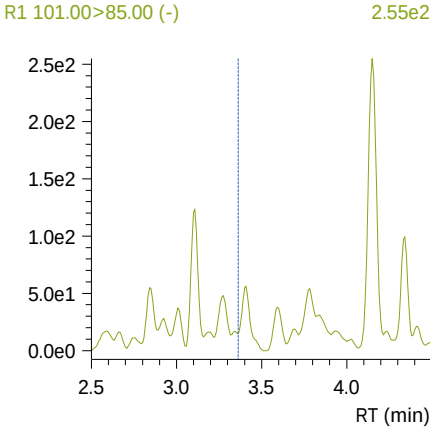
Sample ID: EQ2300157-01
Date Acquired: 3/28/2023 12:30:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230328\20230328-005.lcd
Vial: 25 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	243273	----	ng/mL	101.00 >85.00	0.00	22.56 -41.90
Sodium Perchlorate-18O4_IS	Auto	3.360	243273	243273	1.0000	ng/mL	----	----	

Perchlorate

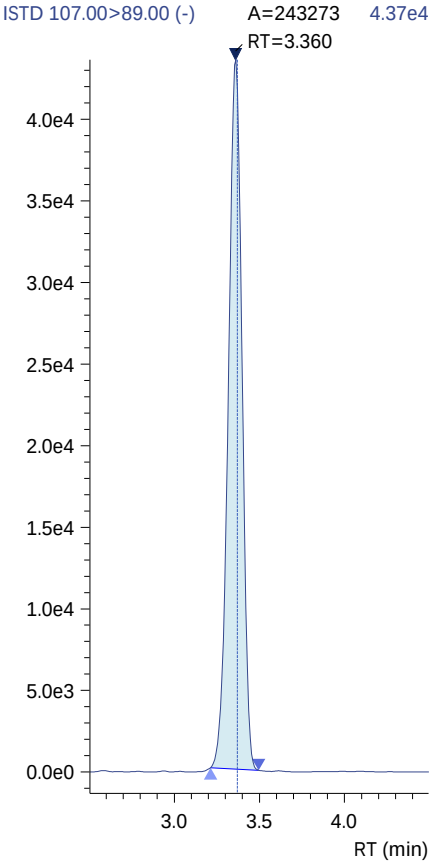
Conc ----
R#1 0.00 (32.23)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/28/2023 3:45:09 PM

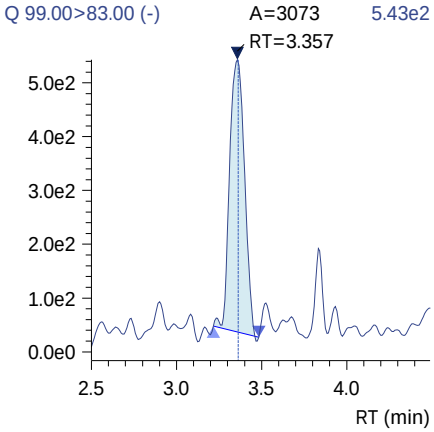
EQ2300157-02

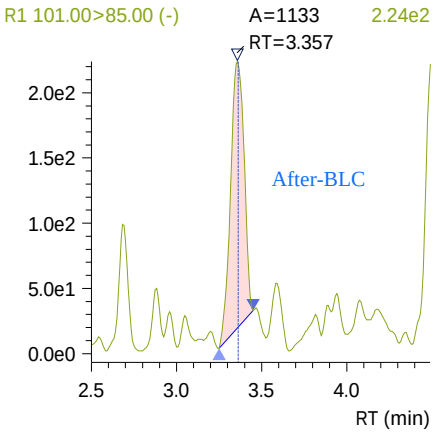
Sample ID: EQ2300157-02
Date Acquired: 3/28/2023 12:36:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230328\20230328-006.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI R1	3.357	3073	241586	0.0918	ng/mL	101.00 >85.00	36.88	22.56 -41.90
Sodium Perchlorate-18O4_IS	Auto	3.360	241586	241586	1.0000	ng/mL	----	----	

Perchlorate

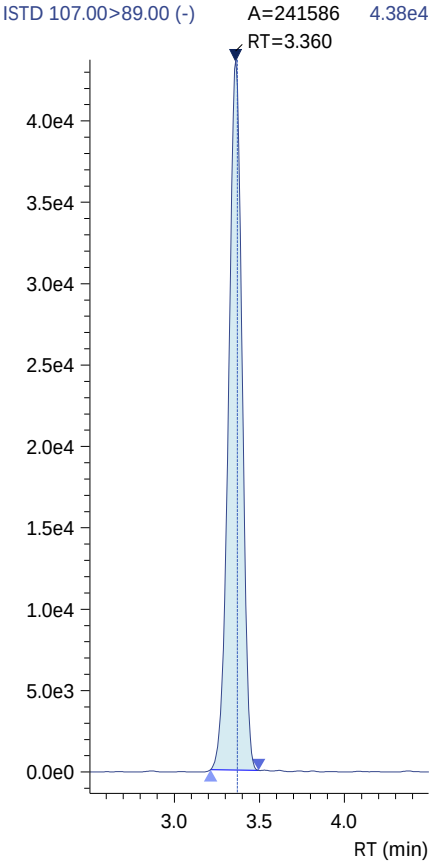
Conc 0.0918
R#1 36.88 (32.23)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

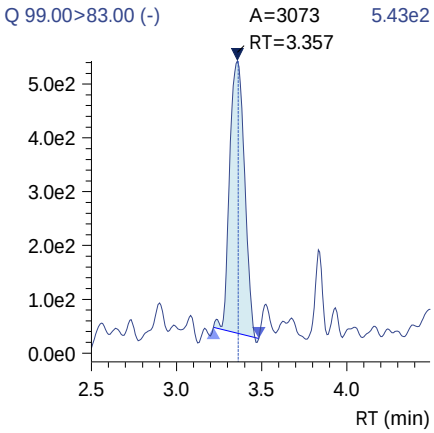
Method File: I:\LCMS01\DATA\20230328\20230328.lcm
Project File: I:\LCMS01\DATA\20230328\20230328.damlp

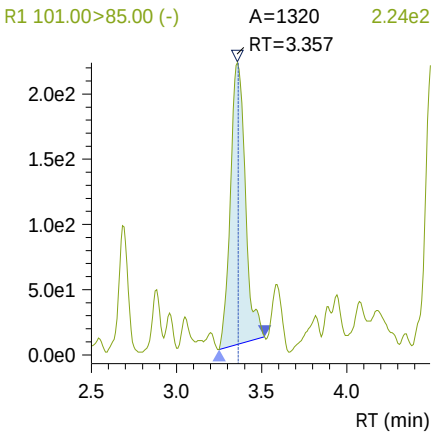
EQ2300157-02

Sample ID: EQ2300157-02
Date Acquired: 3/28/2023 12:36:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230328\20230328-006.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 3

Perchlorate

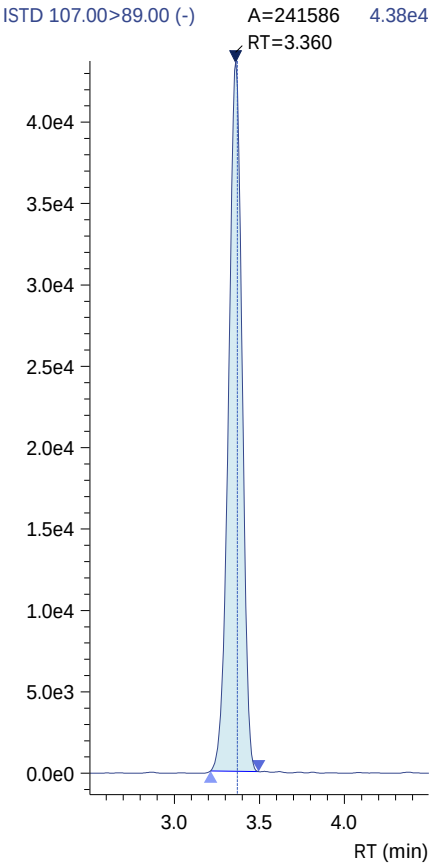
Conc 0.0909
R#1 42.95 (32.23)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/28/2023 3:45:09 PM

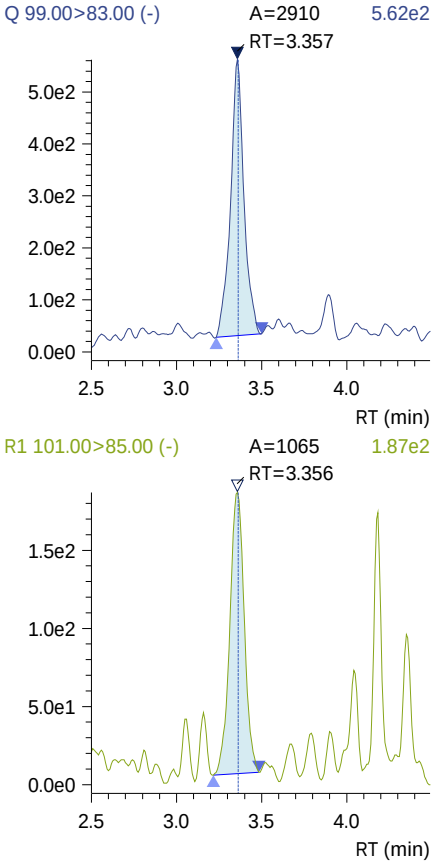
EQ2300157-03

Sample ID: EQ2300157-03
Date Acquired: 3/28/2023 12:42:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230328\20230328-007.lcd
Vial: 27 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.357	2910	244193	0.0860	ng/mL	101.00 >85.00	36.60	22.56 -41.90
Sodium Perchlorate-18O4_IS	Auto	3.358	244193	244193	1.0000	ng/mL	----	----	

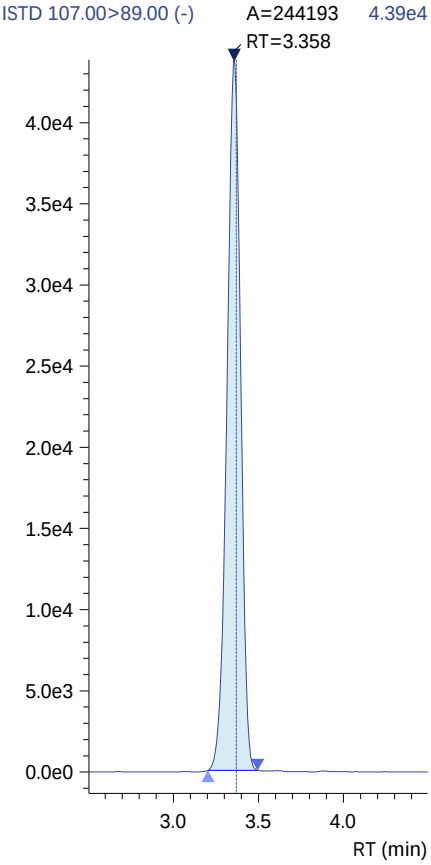
Perchlorate

Conc 0.0860
R#1 36.60 (32.23)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/28/2023 3:45:09 PM

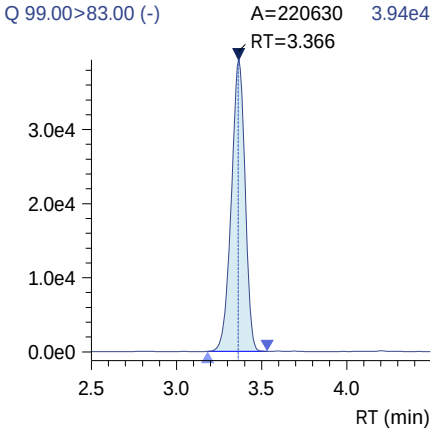
PERCHLORATE7

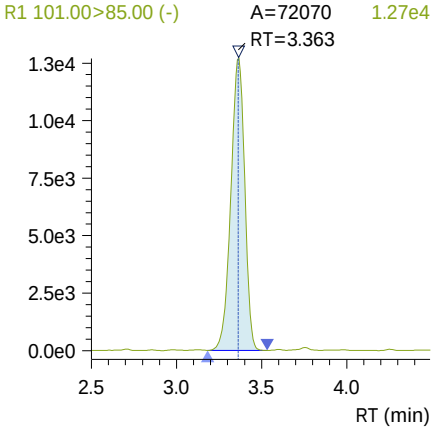
Sample ID: PERCHLORATE7
Date Acquired: 3/28/2023 1:23:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230328\20230328-014.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.366	220630	149008	10.6878	ng/mL	101.00 >85.00	32.67	22.56 -41.90
Sodium Perchlorate-18O4_IS	Auto	3.361	149008	149008	1.0000	ng/mL	----	----	

Perchlorate

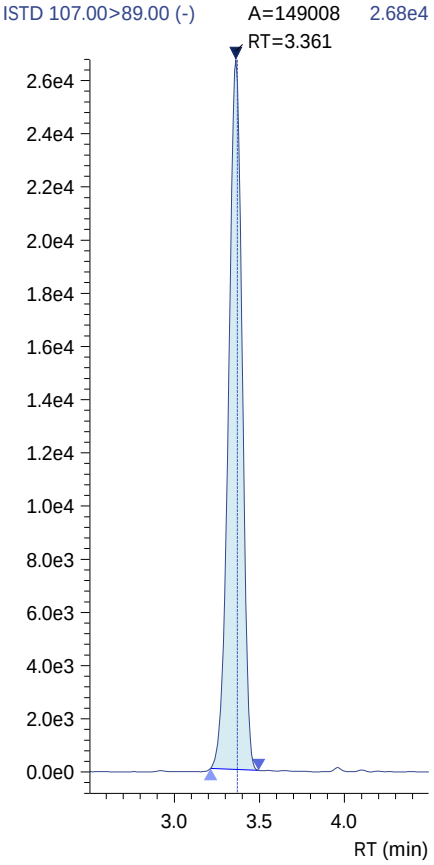
Conc 10.6878
R#1 32.67 (32.23)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/28/2023 3:45:09 PM

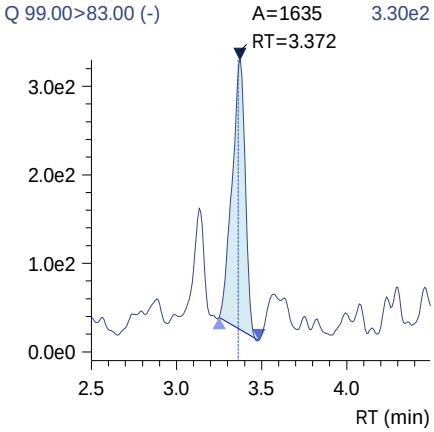
E2300287-001

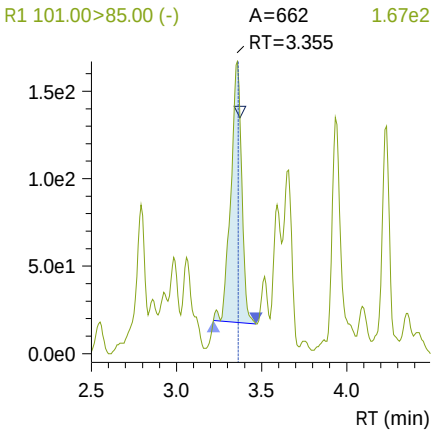
Sample ID: E2300287-001
Date Acquired: 3/28/2023 2:10:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230328\20230328-021.lcd
Vial: 38 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.372	1635	250437	0.0471	ng/mL	101.00 >85.00	40.47	22.56 -41.90
Sodium Perchlorate-18O4_IS	Auto	3.366	2504 37	250437	1.0000	ng/mL	----	----	

Perchlorate

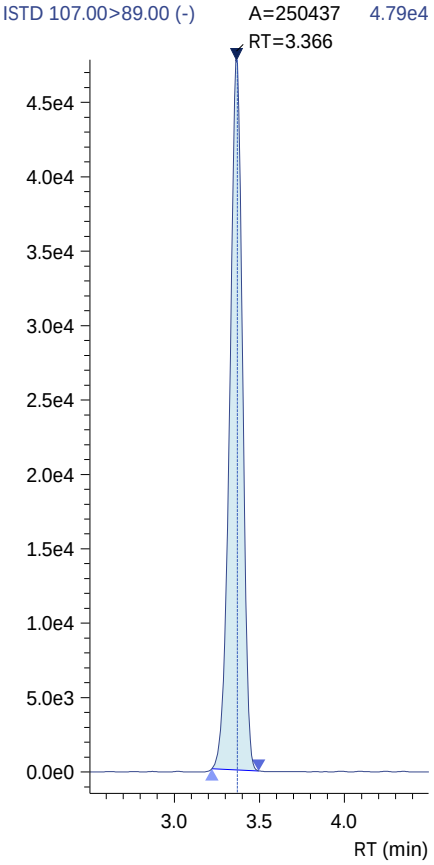
Conc 0.0471
R#1 40.47 (32.23)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/28/2023 3:45:09 PM

PERCHLORATE7

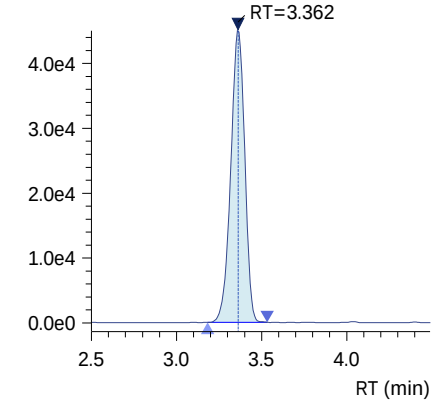
Sample ID: PERCHLORATE7
Date Acquired: 3/28/2023 2:39:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230328\20230328-025.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.362	2575 55	172572	10.7 730	ng/mL	101.00 >85.00	31.72	22.56 -41.90
Sodium Perchlorate-18O4_IS	Auto	3.360	1725 72	172572	1.0000	ng/mL	----	----	

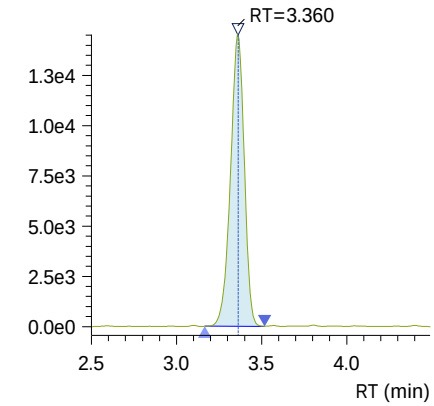
Perchlorate

Conc 10.7730
R#1 31.72 (32.23)

Q 99.00>83.00 (-) A=257555 4.51e4 RT=3.362



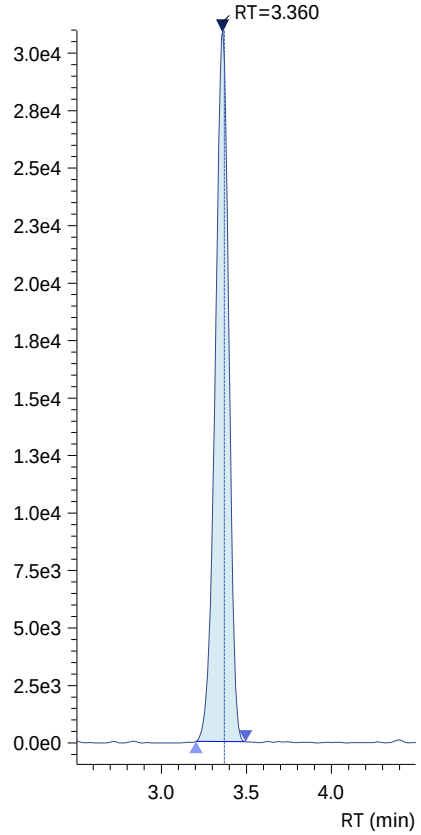
R1 101.00>85.00 (-) A=81701 1.45e4 RT=3.360



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=172572 3.10e4 RT=3.360



HS23031294 Groundwater Treatment Plant Quarterly Influent Samples Cover Page

ALS WO# HS23031294

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alsglobal.com

right solutions.
right partner.

WorkOrder: HS23031294

Groundwater Treatment Plant Quarterly Influent Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

31-Mar-2023

HS23031294 Groundwater Treatment Plant Quarterly Influent Samples Final

ALS WO# HS23031294

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Houston, TX 77099
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March 31, 2023

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS23031294**

Laboratory Results for: **Groundwater Treatment Plant Quarterly Influent Samples**

Dear Marcia Olive,

ALS Environmental received 2 sample(s) on Mar 22, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: DAYNA.FISHER
Dane J. Wacasey

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
Work Order: HS23031294

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23031294-01	LH18/24-SP140_032123	Water		21-Mar-2023 13:00	22-Mar-2023 10:00	☐
HS23031294-02	Trip Blank	Trip Blank	CG-112321-398	21-Mar-2023 00:00	22-Mar-2023 10:00	☐

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Groundwater Treatment Plant Quarterly Influent Samples
Work Order: HS23031294

Work Order Comments

- The analysis for Perchlorate was subcontracted to ALS Houston High-Res Lab. Final report attached

GCMS Semivolatiles by Method SW8270SIM

Batch ID: 191255

Sample ID: LH18/24-SP140_032123 (HS23031294-01)

- High surrogate recovery for 4-terphenyl does not affect target anlyte 1,4-dioxane. Surrogate and target analyte belong to different surrogate and internal standard groups.

GCMS Volatiles by Method SW8260

Batch ID: R430844

Sample ID: HS23031291-01MS

- MS and MSD are for an unrelated sample

Metals by Method SW7470A

Batch ID: 191507

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 191406

Sample ID: HS23031291-01MS

- MS and MSD are for an unrelated sample

WetChemistry by Method E1664A

Batch ID: R431158

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9056

Batch ID: R431099

Sample ID: HS23031330-10MS

- MS and MSD are for an unrelated sample (Chloride,Sulfate)

WetChemistry by Method E410.4

Batch ID: R431068

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Quarterly Influent Samples WorkOrder:HS23031294
Sample ID: LH18/24-SP140_032123 Lab ID:HS23031294-01
Collection Date: 21-Mar-2023 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
1,1,1-Trichloroethane	5.0	U	1.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
1,1,2,2-Tetrachloroethane	5.0	U	2.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
1,1,2-Trichloroethane	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
1,1-Dichloroethane	**4.7**	J	**1.0**	**5.0**	**5.0**	**ug/L**	5	23-Mar-2023 14:18
1,1-Dichloroethene	5.0	U	1.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
1,1-Dichloropropene	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
1,2,3-Trichlorobenzene	5.0	U	2.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
1,2,3-Trichloropropane	5.0	U	2.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
1,2,4-Trichlorobenzene	5.0	U	2.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
1,2,4-Trimethylbenzene	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
1,2-Dibromo-3-chloropropane	5.0	U	1.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
1,2-Dibromoethane	5.0	U	1.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
1,2-Dichlorobenzene	5.0	U	2.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
1,2-Dichloroethane	**19**		**1.0**	**5.0**	**5.0**	**ug/L**	5	23-Mar-2023 14:18
1,2-Dichloropropane	5.0	U	2.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
1,3,5-Trimethylbenzene	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
1,3-Dichlorobenzene	5.0	U	2.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
1,3-Dichloropropane	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
1,4-Dichlorobenzene	5.0	U	2.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
2,2-Dichloropropane	5.0	U	1.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
2-Butanone	5.0	U	2.5	5.0	10	ug/L	5	23-Mar-2023 14:18
2-Chlorotoluene	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
2-Hexanone	5.0	U	5.0	5.0	10	ug/L	5	23-Mar-2023 14:18
4-Chlorotoluene	5.0	U	2.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
4-Isopropyltoluene	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
4-Methyl-2-pentanone	5.0	U	3.5	5.0	10	ug/L	5	23-Mar-2023 14:18
Acetone	5.0	U	2.0	5.0	10	ug/L	5	23-Mar-2023 14:18
Benzene	5.0	U	1.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
Bromobenzene	5.0	U	2.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
Bromochloromethane	5.0	U	1.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
Bromodichloromethane	5.0	U	1.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
Bromoform	5.0	U	2.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
Bromomethane	5.0	U	2.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
Carbon disulfide	5.0	U	3.0	5.0	10	ug/L	5	23-Mar-2023 14:18
Carbon tetrachloride	**3.6**	J	**2.5**	**5.0**	**5.0**	**ug/L**	5	23-Mar-2023 14:18
Chlorobenzene	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
Chloroethane	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
Chloroform	**6.0**		**1.0**	**5.0**	**5.0**	**ug/L**	5	23-Mar-2023 14:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
Sample ID: LH18/24-SP140_032123
Collection Date: 21-Mar-2023 13:00

ANALYTICAL REPORT
WorkOrder:HS23031294
Lab ID:HS23031294-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	5.0	U	1.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
cis-1,2-Dichloroethene	**1,200**		**10**	**50**	**50**	**ug/L**	50	23-Mar-2023 14:39
cis-1,3-Dichloropropene	5.0	U	0.50	5.0	5.0	ug/L	5	23-Mar-2023 14:18
Dibromochloromethane	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
Dibromomethane	5.0	U	1.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
Dichlorodifluoromethane	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
Ethylbenzene	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
Hexachlorobutadiene	5.0	U	5.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
Isopropylbenzene	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
m,p-Xylene	5.0	U	2.5	5.0	10	ug/L	5	23-Mar-2023 14:18
Methylene chloride	**770**		**2.0**	**5.0**	**10**	**ug/L**	5	23-Mar-2023 14:18
n-Butylbenzene	5.0	U	2.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
n-Propylbenzene	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
Naphthalene	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
o-Xylene	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
sec-Butylbenzene	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
Styrene	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
tert-Butylbenzene	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
Tetrachloroethene	**16**		**1.5**	**5.0**	**5.0**	**ug/L**	5	23-Mar-2023 14:18
Toluene	5.0	U	1.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
trans-1,2-Dichloroethene	**4.4**	J	**1.0**	**5.0**	**5.0**	**ug/L**	5	23-Mar-2023 14:18
trans-1,3-Dichloropropene	5.0	U	1.0	5.0	5.0	ug/L	5	23-Mar-2023 14:18
Trichloroethene	**2,800**		**10**	**50**	**50**	**ug/L**	50	23-Mar-2023 14:39
Trichlorofluoromethane	5.0	U	1.5	5.0	5.0	ug/L	5	23-Mar-2023 14:18
Vinyl chloride	**95**		**1.0**	**5.0**	**5.0**	**ug/L**	5	23-Mar-2023 14:18
Surr: 1,2-Dichloroethane-d4	*81.2*			**0**	*81-118*	*%REC*	*5*	*23-Mar-2023 14:18*
Surr: 1,2-Dichloroethane-d4	*81.1*			**0**	*81-118*	*%REC*	*50*	*23-Mar-2023 14:39*
Surr: 4-Bromofluorobenzene	*99.6*			**0**	*85-114*	*%REC*	*5*	*23-Mar-2023 14:18*
Surr: 4-Bromofluorobenzene	*98.8*			**0**	*85-114*	*%REC*	*50*	*23-Mar-2023 14:39*
Surr: Dibromofluoromethane	*87.1*			**0**	*80-119*	*%REC*	*50*	*23-Mar-2023 14:39*
Surr: Dibromofluoromethane	*87.6*			**0**	*80-119*	*%REC*	*5*	*23-Mar-2023 14:18*
Surr: Toluene-d8	*107*			**0**	*89-112*	*%REC*	*5*	*23-Mar-2023 14:18*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*50*	*23-Mar-2023 14:39*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 24-Mar-2023		Analyst: MBG
1,4-Dioxane	**1.2**		**0.10**	**0.050**	**0.10**	**ug/L**	10	30-Mar-2023 15:51
Surr: 2-Fluorobiphenyl	*104*			**0**	*40-140*	*%REC*	*10*	*30-Mar-2023 15:51*
Surr: 4-Terphenyl-d14	*253*	*S*		**0**	*40-140*	*%REC*	*10*	*30-Mar-2023 15:51*
Surr: Nitrobenzene-d5	*118*			**0**	*40-140*	*%REC*	*10*	*30-Mar-2023 15:51*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
Sample ID: LH18/24-SP140_032123
Collection Date: 21-Mar-2023 13:00

ANALYTICAL REPORT
WorkOrder:HS23031294
Lab ID:HS23031294-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 27-Mar-2023		Analyst: JC
Aluminum	**0.0332**		**0.00180**	**0.0150**	**0.0100**	**mg/L**	1	29-Mar-2023 11:32
Antimony	**0.000407**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	29-Mar-2023 11:32
Arsenic	**0.000623**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	29-Mar-2023 11:32
Barium	**0.288**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	29-Mar-2023 11:32
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	29-Mar-2023 11:32
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	29-Mar-2023 11:32
Calcium	**33.2**		**0.0340**	**1.00**	**0.500**	**mg/L**	1	29-Mar-2023 11:32
Chromium	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	29-Mar-2023 11:32
Cobalt	**0.00404**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	29-Mar-2023 11:32
Iron	**0.219**		**0.0120**	**1.00**	**0.200**	**mg/L**	1	29-Mar-2023 11:32
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	29-Mar-2023 11:32
Magnesium	**25.8**		**0.0100**	**1.00**	**0.200**	**mg/L**	1	29-Mar-2023 11:32
Manganese	**0.295**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	29-Mar-2023 11:32
Nickel	**0.00990**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	29-Mar-2023 11:32
Potassium	**0.995**		**0.0180**	**1.00**	**0.200**	**mg/L**	1	29-Mar-2023 11:32
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	29-Mar-2023 11:32
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	29-Mar-2023 11:32
Sodium	**167**		**0.0140**	**1.00**	**0.200**	**mg/L**	1	29-Mar-2023 11:32
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	29-Mar-2023 11:32
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	29-Mar-2023 11:32
Zinc	**0.0141**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	29-Mar-2023 11:32
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 29-Mar-2023		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	29-Mar-2023 13:05
OIL & GREASE (HEM) BY E1664A		**Method:E1664A**						Analyst: VD
Oil and Grease	1.00	U	0.610	1.00	2.00	mg/L	1	27-Mar-2023 08:00
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		**Method:E410.4**						Analyst: TH
Chemical Oxygen Demand	**20.0**		**5.00**	**7.50**	**15.0**	**mg/L**	1	27-Mar-2023 13:00
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**337**		**2.00**	**2.50**	**5.00**	**mg/L**	10	27-Mar-2023 14:36
Sulfate	**43.0**		**0.200**	**0.250**	**0.500**	**mg/L**	1	27-Mar-2023 14:30
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	30-Mar-2023 12:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder:HS23031294
Sample ID: Trip Blank
Lab ID:HS23031294-02
Collection Date: 21-Mar-2023 00:00
Matrix:Trip Blank

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:36
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	23-Mar-2023 13:36
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:36
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:36
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:36
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	23-Mar-2023 13:36
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	23-Mar-2023 13:36
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:36
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:36
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	23-Mar-2023 13:36
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:36
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	23-Mar-2023 13:36
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:36
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:36
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:36
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	23-Mar-2023 13:36
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	23-Mar-2023 13:36
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:36
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	23-Mar-2023 13:36
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	23-Mar-2023 13:36
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	23-Mar-2023 13:36
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Quarterly Influent Samples WorkOrder:HS23031294
Sample ID: Trip Blank Lab ID:HS23031294-02
Collection Date: 21-Mar-2023 00:00 Matrix:Trip Blank

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:36
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:36
cis-1,3-Dichloropropene	1.0	U	0.10	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	23-Mar-2023 13:36
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	23-Mar-2023 13:36
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	23-Mar-2023 13:36
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:36
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:36
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Trichlorofluoromethane	**3.6**		**0.30**	**1.0**	**1.0**	**ug/L**	1	23-Mar-2023 13:36
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	23-Mar-2023 13:36
Surr: 1,2-Dichloroethane-d4	*81.0*			**0**	*81-118*	*%REC*	*1*	*23-Mar-2023 13:36*
Surr: 4-Bromofluorobenzene	*102*			**0**	*85-114*	*%REC*	*1*	*23-Mar-2023 13:36*
Surr: Dibromofluoromethane	*87.7*			**0**	*80-119*	*%REC*	*1*	*23-Mar-2023 13:36*
Surr: Toluene-d8	*103*			**0**	*89-112*	*%REC*	*1*	*23-Mar-2023 13:36*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 31-Mar-23

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

Batch ID: 191255 **Start Date:** 24 Mar 2023 09:00 **End Date:** 24 Mar 2023 13:00
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23031294-01		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 191406 **Start Date:** 27 Mar 2023 14:00 **End Date:** 27 Mar 2023 18:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23031294-01		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 191507 **Start Date:** 29 Mar 2023 08:00 **End Date:** 29 Mar 2023 11:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23031294-01		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 191255 (0)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Water	
HS23031294-01	LH18/24-SP140_032123	21 Mar 2023 13:00		24 Mar 2023 07:48	30 Mar 2023 15:51	10
Batch ID: 191406 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Water	
HS23031294-01	LH18/24-SP140_032123	21 Mar 2023 13:00		27 Mar 2023 14:00	29 Mar 2023 11:32	1
Batch ID: 191507 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS23031294-01	LH18/24-SP140_032123	21 Mar 2023 13:00		29 Mar 2023 08:00	29 Mar 2023 13:05	1
Batch ID: R430844 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Trip Blank	
HS23031294-02	Trip Blank	21 Mar 2023 00:00			23 Mar 2023 13:36	1
Batch ID: R430844 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23031294-01	LH18/24-SP140_032123	21 Mar 2023 13:00			23 Mar 2023 14:39	50
HS23031294-01	LH18/24-SP140_032123	21 Mar 2023 13:00			23 Mar 2023 14:18	5
Batch ID: R431068 (0)	**Test Name :** CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993				**Matrix:** Water	
HS23031294-01	LH18/24-SP140_032123	21 Mar 2023 13:00			27 Mar 2023 13:00	1
Batch ID: R431099 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS23031294-01	LH18/24-SP140_032123	21 Mar 2023 13:00			27 Mar 2023 14:36	10
HS23031294-01	LH18/24-SP140_032123	21 Mar 2023 13:00			27 Mar 2023 14:30	1
Batch ID: R431158 (0)	**Test Name :** OIL & GREASE (HEM) BY E1664A				**Matrix:** Water	
HS23031294-01	LH18/24-SP140_032123	21 Mar 2023 13:00			27 Mar 2023 08:00	1
Batch ID: R431373 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS23031294-01	LH18/24-SP140_032123	21 Mar 2023 13:00			30 Mar 2023 12:23	1

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

QC BATCH REPORT

Batch ID: 191406 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-191406** Units: **mg/L** Analysis Date: **29-Mar-2023 11:18**
Client ID: Run ID: **ICPMS06_431222** SeqNo: **7201895** PrepDate: **27-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.0150	0.0100								U
Antimony	0.00125	0.00500								U
Arsenic	0.00125	0.00500								U
Barium	0.00250	0.00500								U
Beryllium	0.000500	0.00200								U
Cadmium	0.000500	0.00200								U
Calcium	1.00	0.500								U
Chromium	0.00125	0.00500								U
Cobalt	0.000500	0.00500								U
Iron	1.00	0.200								U
Lead	0.00125	0.00500								U
Magnesium	1.00	0.200								U
Manganese	0.00250	0.00500								U
Nickel	0.00125	0.00500								U
Potassium	1.00	0.200								U
Selenium	0.00250	0.00500								U
Silver	0.000500	0.00500								U
Sodium	1.00	0.200								U
Thallium	0.000500	0.00200								U
Vanadium	0.00125	0.00500								U
Zinc	0.00250	0.00500								U

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

QC BATCH REPORT

Batch ID: 191406 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-191406** Units: **mg/L** Analysis Date: **29-Mar-2023 11:20**
Client ID: Run ID: **ICPMS06_431222** SeqNo: **7201896** PrepDate: **27-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.108	0.0100	0.1	0	108	84 - 117				
Antimony	0.05056	0.00500	0.05	0	101	85 - 117				
Arsenic	0.05137	0.00500	0.05	0	103	84 - 116				
Barium	0.05041	0.00500	0.05	0	101	86 - 114				
Beryllium	0.04955	0.00200	0.05	0	99.1	83 - 121				
Cadmium	0.05126	0.00200	0.05	0	103	87 - 115				
Calcium	4.936	0.500	5	0	98.7	87 - 118				
Chromium	0.04894	0.00500	0.05	0	97.9	85 - 116				
Cobalt	0.0505	0.00500	0.05	0	101	86 - 115				
Iron	5.006	0.200	5	0	100	87 - 118				
Lead	0.05175	0.00500	0.05	0	103	88 - 115				
Magnesium	5.158	0.200	5	0	103	83 - 118				
Manganese	0.05113	0.00500	0.05	0	102	87 - 115				
Nickel	0.05216	0.00500	0.05	0	104	85 - 117				
Potassium	5.055	0.200	5	0	101	87 - 115				
Selenium	0.05161	0.00500	0.05	0	103	80 - 120				
Silver	0.05031	0.00500	0.05	0	101	85 - 116				
Sodium	5.037	0.200	5	0	101	85 - 117				
Thallium	0.04259	0.00200	0.05	0	85.2	82 - 116				
Vanadium	0.05136	0.00500	0.05	0	103	86 - 115				
Zinc	0.05347	0.00500	0.05	0	107	83 - 119				

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

QC BATCH REPORT

Batch ID: 191406 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MS Sample ID: **HS23031291-01MS** Units: **mg/L** Analysis Date: **29-Mar-2023 11:26**
Client ID: Run ID: **ICPMS06_431222** SeqNo: **7201899** PrepDate: **27-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1077	0.0100	0.1	0.01248	95.3	84 - 117				
Antimony	0.04838	0.00500	0.05	0.000157	96.5	85 - 117				
Arsenic	0.05142	0.00500	0.05	0.00036	102	84 - 116				
Barium	0.1398	0.00500	0.05	0.09241	94.8	86 - 114				
Beryllium	0.04862	0.00200	0.05	0.000008	97.2	83 - 121				
Cadmium	0.0476	0.00200	0.05	0.000021	95.2	87 - 115				
Calcium	17.54	0.500	5	12.49	101	87 - 118				
Chromium	0.04708	0.00500	0.05	-0.000461	95.1	85 - 116				
Cobalt	0.04796	0.00500	0.05	0.000558	94.8	86 - 115				
Iron	5.063	0.200	5	0.3163	94.9	87 - 118				
Lead	0.05208	0.00500	0.05	0.000123	104	88 - 115				
Magnesium	16.78	0.200	5	11.96	96.5	83 - 118				
Manganese	0.1124	0.00500	0.05	0.06481	95.1	87 - 115				
Nickel	0.04921	0.00500	0.05	0.003503	91.4	85 - 117				
Potassium	6.871	0.200	5	1.861	100	87 - 115				
Selenium	0.04126	0.00500	0.05	0.000444	81.6	80 - 120				
Silver	0.04547	0.00500	0.05	0.000064	90.8	85 - 116				
Sodium	547	0.200	5	550.3	-66.2	85 - 117				SEO
Thallium	0.04427	0.00200	0.05	0.000335	87.9	82 - 116				
Vanadium	0.05099	0.00500	0.05	0.000041	102	86 - 115				
Zinc	0.06032	0.00500	0.05	0.01112	98.4	83 - 119				

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

QC BATCH REPORT

Batch ID: 191406 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS23031291-01MSD** Units: **mg/L** Analysis Date: **29-Mar-2023 11:28**
Client ID: Run ID: **ICPMS06_431222** SeqNo: **7201900** PrepDate: **27-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1098	0.0100	0.1	0.01248	97.3	84 - 117	0.1077	1.9	20	
Antimony	0.0469	0.00500	0.05	0.000157	93.5	85 - 117	0.04838	3.1	20	
Arsenic	0.0498	0.00500	0.05	0.00036	98.9	84 - 116	0.05142	3.2	20	
Barium	0.1437	0.00500	0.05	0.09241	103	86 - 114	0.1398	2.72	20	
Beryllium	0.04957	0.00200	0.05	0.000008	99.1	83 - 121	0.04862	1.93	20	
Cadmium	0.04819	0.00200	0.05	0.000021	96.3	87 - 115	0.0476	1.22	20	
Calcium	17.38	0.500	5	12.49	97.8	87 - 118	17.54	0.931	20	
Chromium	0.04588	0.00500	0.05	-0.000461	92.7	85 - 116	0.04708	2.59	20	
Cobalt	0.04621	0.00500	0.05	0.000558	91.3	86 - 115	0.04796	3.71	20	
Iron	4.922	0.200	5	0.3163	92.1	87 - 118	5.063	2.82	20	
Lead	0.05106	0.00500	0.05	0.000123	102	88 - 115	0.05208	1.99	20	
Magnesium	16.74	0.200	5	11.96	95.7	83 - 118	16.78	0.259	20	
Manganese	0.1111	0.00500	0.05	0.06481	92.6	87 - 115	0.1124	1.14	20	
Nickel	0.04854	0.00500	0.05	0.003503	90.1	85 - 117	0.04921	1.39	20	
Potassium	6.758	0.200	5	1.861	97.9	87 - 115	6.871	1.67	20	
Silver	0.04569	0.00500	0.05	0.000064	91.2	85 - 116	0.04547	0.472	20	
Sodium	544.7	0.200	5	550.3	-112	85 - 117	547	0.42	20	SEO
Thallium	0.0441	0.00200	0.05	0.000335	87.5	82 - 116	0.04427	0.387	20	
Vanadium	0.04966	0.00500	0.05	0.000041	99.2	86 - 115	0.05099	2.63	20	
Zinc	0.05873	0.00500	0.05	0.01112	95.2	83 - 119	0.06032	2.68	20	

MSD Sample ID: **HS23031291-01MSD** Units: **mg/L** Analysis Date: **29-Mar-2023 11:35**
Client ID: Run ID: **ICPMS06_431222** SeqNo: **7201903** PrepDate: **27-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	0.04086	0.00500	0.05	0	81.7	80 - 120	0.04126	0.972	20	

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

QC BATCH REPORT

Batch ID: 191406 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS23031291-01PDS** Units: **mg/L** Analysis Date: **29-Mar-2023 11:30**
Client ID: Run ID: **ICPMS06_431222** SeqNo: **7201901** PrepDate: **27-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1165	0.0100	0.1	0.01248	104	80 - 120				
Antimony	0.09728	0.00500	0.1	0.000157	97.1	80 - 120				
Arsenic	0.104	0.00500	0.1	0.00036	104	80 - 120				
Barium	0.1939	0.00500	0.1	0.09241	102	80 - 120				
Beryllium	0.1066	0.00200	0.1	0.000008	107	80 - 120				
Cadmium	0.1006	0.00200	0.1	0.000021	101	80 - 120				
Calcium	22.17	0.500	10	12.49	96.8	80 - 120				
Chromium	0.098	0.00500	0.1	-0.000461	98.5	80 - 120				
Cobalt	0.09723	0.00500	0.1	0.000558	96.7	80 - 120				
Iron	10.11	0.200	10	0.3163	98.0	80 - 120				
Lead	0.1022	0.00500	0.1	0.000123	102	80 - 120				
Magnesium	22.17	0.200	10	11.96	102	80 - 120				
Manganese	0.1667	0.00500	0.1	0.06481	102	80 - 120				
Nickel	0.0999	0.00500	0.1	0.003503	96.4	80 - 120				
Potassium	12.34	0.200	10	1.861	105	80 - 120				
Selenium	0.1046	0.00500	0.1	0.000444	104	80 - 120				
Thallium	0.1042	0.00200	0.1	0.000335	104	80 - 120				
Vanadium	0.1051	0.00500	0.1	0.000041	105	80 - 120				
Zinc	0.1105	0.00500	0.1	0.01112	99.4	80 - 120				

PDS Sample ID: **HS23031291-01PDS** Units: **mg/L** Analysis Date: **29-Mar-2023 11:49**
Client ID: Run ID: **ICPMS06_431222** SeqNo: **7201965** PrepDate: **27-Mar-2023** DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	1066	10.0	500	573.7	98.4	80 - 120				

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

QC BATCH REPORT

Batch ID: 191406 (0) **Instrument: ICPMS06** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS23031291-01SD** Units: **mg/L** Analysis Date: **29-Mar-2023 11:24**
Client ID: Run ID: **ICPMS06_431222** SeqNo: **7201898** PrepDate: **27-Mar-2023** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.0115	0.0500					0.01248	0	10	J
Antimony	0.00625	0.0250					0.000157	0	10	U
Arsenic	0.00625	0.0250					0.00036	0	10	U
Barium	0.08856	0.0250					0.09241	4.16	10	
Beryllium	0.00250	0.0100					0.000008	0	10	U
Cadmium	0.00250	0.0100					0.000021	0	10	U
Calcium	12.31	2.50					12.49	1.46	10	
Chromium	0.00625	0.0250					-0.000461	0	10	U
Cobalt	0.000542	0.0250					0.000558	0	10	J
Iron	0.3231	1.00					0.3163	0	10	J
Lead	0.00625	0.0250					0.000123	0	10	U
Magnesium	11.96	1.00					11.96	0.00394	10	
Manganese	0.06475	0.0250					0.06481	0.0849	10	
Nickel	0.003189	0.0250					0.003503	0	10	J
Potassium	1.851	1.00					1.861	0.527	10	
Selenium	0.0125	0.0250					0.000444	0	10	U
Silver	0.00250	0.0250					0.000064	0	10	U
Thallium	0.00250	0.0100					0.000335	0	10	U
Vanadium	0.00625	0.0250					0.000041	0	10	U
Zinc	0.01185	0.0250					0.01112	0	10	J

SD Sample ID: **HS23031291-01SD** Units: **mg/L** Analysis Date: **29-Mar-2023 11:47**
Client ID: Run ID: **ICPMS06_431222** SeqNo: **7201964** PrepDate: **27-Mar-2023** DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Sodium	579.8	50.0					573.7	1.06	10	

The following samples were analyzed in this batch: HS23031294-01

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

QC BATCH REPORT

Batch ID: 191507 (0) **Instrument: HG04** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-191507** Units: **mg/L** Analysis Date: **29-Mar-2023 13:00**
Client ID: Run ID: **HG04_431249** SeqNo: **7202355** PrepDate: **29-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.000100	0.000200								U

LCS Sample ID: **LCS-191507** Units: **mg/L** Analysis Date: **29-Mar-2023 13:02**
Client ID: Run ID: **HG04_431249** SeqNo: **7202356** PrepDate: **29-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00527	0.000200	0.005	0	105	82 - 119				

MS Sample ID: **HS23031294-01MS** Units: **mg/L** Analysis Date: **29-Mar-2023 13:07**
Client ID: **LH18/24-SP140_032123** Run ID: **HG04_431249** SeqNo: **7202359** PrepDate: **29-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00528	0.000200	0.005	0.000004000	106	82 - 119				

MSD Sample ID: **HS23031294-01MSD** Units: **mg/L** Analysis Date: **29-Mar-2023 13:08**
Client ID: **LH18/24-SP140_032123** Run ID: **HG04_431249** SeqNo: **7202360** PrepDate: **29-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00535	0.000200	0.005	0.000004000	107	82 - 119	0.005280	1.32	20	

The following samples were analyzed in this batch: HS23031294-01

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

QC BATCH REPORT

Batch ID: 191255 (0) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-191255** Units: **ug/L** Analysis Date: **30-Mar-2023 13:29**
Client ID: Run ID: **SV-6_431416** SeqNo: **7206036** PrepDate: **24-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.0050	0.030								U
Surr: 2-Fluorobiphenyl	*0.08506*	*0*	*0.08*	*0*	*106*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.08248*	*0*	*0.08*	*0*	*103*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.07096*	*0*	*0.08*	*0*	*88.7*	*40 - 140*				

LCS Sample ID: **LCS-191255** Units: **ug/L** Analysis Date: **30-Mar-2023 13:47**
Client ID: Run ID: **SV-6_431416** SeqNo: **7206037** PrepDate: **24-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.06655	0.030	0.08	0	83.2	40 - 140				
Surr: 2-Fluorobiphenyl	*0.08091*	*0*	*0.08*	*0*	*101*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.08731*	*0*	*0.08*	*0*	*109*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.08457*	*0*	*0.08*	*0*	*106*	*40 - 140*				

LCSD Sample ID: **LCSD-191255** Units: **ug/L** Analysis Date: **30-Mar-2023 14:05**
Client ID: Run ID: **SV-6_431416** SeqNo: **7206038** PrepDate: **24-Mar-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.06461	0.030	0.08	0	80.8	40 - 140	0.06655	2.96	20	
Surr: 2-Fluorobiphenyl	*0.08791*	*0*	*0.08*	*0*	*110*	*40 - 140*	*0.08091*	*8.29*	*20*	
Surr: 4-Terphenyl-d14	*0.08675*	*0*	*0.08*	*0*	*108*	*40 - 140*	*0.08731*	*0.639*	*20*	
Surr: Nitrobenzene-d5	*0.08762*	*0*	*0.08*	*0*	*110*	*40 - 140*	*0.08457*	*3.54*	*20*	

The following samples were analyzed in this batch: HS23031294-01

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

QC BATCH REPORT

Batch ID: R430844 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230323** Units: **ug/L** Analysis Date: **23-Mar-2023 12:33**
Client ID: Run ID: **VOA6_430844** SeqNo: **7192081** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0								U
1,1,1-Trichloroethane	1.0	1.0								U
1,1,2,2-Tetrachloroethane	1.0	1.0								U
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,1-Dichloropropene	1.0	1.0								U
1,2,3-Trichlorobenzene	1.0	1.0								U
1,2,3-Trichloropropane	1.0	1.0								U
1,2,4-Trichlorobenzene	1.0	1.0								U
1,2,4-Trimethylbenzene	1.0	1.0								U
1,2-Dibromo-3-chloropropane	1.0	1.0								U
1,2-Dibromoethane	1.0	1.0								U
1,2-Dichlorobenzene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
1,2-Dichloropropane	1.0	1.0								U
1,3,5-Trimethylbenzene	1.0	1.0								U
1,3-Dichlorobenzene	1.0	1.0								U
1,3-Dichloropropane	1.0	1.0								U
1,4-Dichlorobenzene	1.0	1.0								U
2,2-Dichloropropane	1.0	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	1.0	1.0								U
2-Hexanone	1.0	2.0								U
4-Chlorotoluene	1.0	1.0								U
4-Isopropyltoluene	1.0	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	1.0	2.0								U
Benzene	1.0	1.0								U
Bromobenzene	1.0	1.0								U
Bromochloromethane	1.0	1.0								U
Bromodichloromethane	1.0	1.0								U
Bromoform	1.0	1.0								U
Bromomethane	1.0	1.0								U

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

QC BATCH REPORT

Batch ID: R430844 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230323** Units: **ug/L** Analysis Date: **23-Mar-2023 12:33**
Client ID: Run ID: **VOA6_430844** SeqNo: **7192081** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	1.0	2.0								U
Carbon tetrachloride	1.0	1.0								U
Chlorobenzene	1.0	1.0								U
Chloroethane	1.0	1.0								U
Chloroform	1.0	1.0								U
Chloromethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
cis-1,3-Dichloropropene	1.0	1.0								U
Dibromochloromethane	1.0	1.0								U
Dibromomethane	1.0	1.0								U
Dichlorodifluoromethane	1.0	1.0								U
Ethylbenzene	1.0	1.0								U
Hexachlorobutadiene	1.0	1.0								U
Isopropylbenzene	1.0	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	1.0	2.0								U
Naphthalene	1.0	1.0								U
n-Butylbenzene	1.0	1.0								U
n-Propylbenzene	1.0	1.0								U
o-Xylene	1.0	1.0								U
sec-Butylbenzene	1.0	1.0								U
Styrene	1.0	1.0								U
tert-Butylbenzene	1.0	1.0								U
Tetrachloroethene	1.0	1.0								U
Toluene	1.0	1.0								U
trans-1,2-Dichloroethene	1.0	1.0								U
trans-1,3-Dichloropropene	1.0	1.0								U
Trichloroethene	1.0	1.0								U
Trichlorofluoromethane	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*41.11*	*1.0*	*50*	*0*	*82.2*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*49.06*	*1.0*	*50*	*0*	*98.1*	*85 - 114*				
Surr: Dibromofluoromethane	*43.75*	*1.0*	*50*	*0*	*87.5*	*80 - 119*				
Surr: Toluene-d8	*54.08*	*1.0*	*50*	*0*	*108*	*89 - 112*				

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

QC BATCH REPORT

Batch ID: R430844 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230323** Units: **ug/L** Analysis Date: **23-Mar-2023 11:50**
Client ID: Run ID: **VOA6_430844** SeqNo: **7192080** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.99	1.0	20	0	105	78 - 124				
1,1,1-Trichloroethane	18.76	1.0	20	0	93.8	74 - 131				
1,1,2,2-Tetrachloroethane	22.26	1.0	20	0	111	71 - 121				
1,1,2-Trichloroethane	21	1.0	20	0	105	80 - 119				
1,1-Dichloroethane	18.61	1.0	20	0	93.1	77 - 125				
1,1-Dichloroethene	17.17	1.0	20	0	85.9	71 - 131				
1,1-Dichloropropene	18.32	1.0	20	0	91.6	78 - 125				
1,2,3-Trichlorobenzene	20.07	1.0	20	0	100	69 - 129				
1,2,3-Trichloropropane	21.84	1.0	20	0	109	73 - 122				
1,2,4-Trichlorobenzene	20.14	1.0	20	0	101	69 - 130				
1,2,4-Trimethylbenzene	20.05	1.0	20	0	100	76 - 124				
1,2-Dibromo-3-chloropropane	22.86	1.0	20	0	114	62 - 128				
1,2-Dibromoethane	22.16	1.0	20	0	111	77 - 121				
1,2-Dichlorobenzene	21.18	1.0	20	0	106	80 - 119				
1,2-Dichloroethane	20.64	1.0	20	0	103	73 - 128				
1,2-Dichloropropane	20.25	1.0	20	0	101	78 - 122				
1,3,5-Trimethylbenzene	19.36	1.0	20	0	96.8	75 - 124				
1,3-Dichlorobenzene	19.9	1.0	20	0	99.5	80 - 119				
1,3-Dichloropropane	21.68	1.0	20	0	108	80 - 119				
1,4-Dichlorobenzene	19.95	1.0	20	0	99.8	79 - 118				
2,2-Dichloropropane	19.63	1.0	20	0	98.2	60 - 139				
2-Butanone	38.97	2.0	40	0	97.4	56 - 143				
2-Chlorotoluene	20.19	1.0	20	0	101	79 - 122				
2-Hexanone	44.37	2.0	40	0	111	57 - 139				
4-Chlorotoluene	20.56	1.0	20	0	103	78 - 122				
4-Isopropyltoluene	18.21	1.0	20	0	91.0	77 - 127				
4-Methyl-2-pentanone	44.92	2.0	40	0	112	67 - 130				
Acetone	37.9	2.0	40	0	94.7	39 - 160				
Benzene	19.82	1.0	20	0	99.1	79 - 120				
Bromobenzene	21.44	1.0	20	0	107	80 - 120				
Bromochloromethane	19.28	1.0	20	0	96.4	78 - 123				
Bromodichloromethane	20.72	1.0	20	0	104	79 - 125				
Bromoform	22.8	1.0	20	0	114	66 - 130				
Bromomethane	20.93	1.0	20	0	105	53 - 141				

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

QC BATCH REPORT

Batch ID: R430844 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230323** Units: **ug/L** Analysis Date: **23-Mar-2023 11:50**
Client ID: Run ID: **VOA6_430844** SeqNo: **7192080** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	33.54	2.0	40	0	83.9	64 - 133				
Carbon tetrachloride	18.13	1.0	20	0	90.6	72 - 136				
Chlorobenzene	20.62	1.0	20	0	103	82 - 118				
Chloroethane	16.54	1.0	20	0	82.7	60 - 138				
Chloroform	18.43	1.0	20	0	92.1	79 - 124				
Chloromethane	20.23	1.0	20	0	101	50 - 139				
cis-1,2-Dichloroethene	18.7	1.0	20	0	93.5	78 - 123				
cis-1,3-Dichloropropene	20.67	1.0	20	0	103	75 - 124				
Dibromochloromethane	21.06	1.0	20	0	105	74 - 126				
Dibromomethane	21.12	1.0	20	0	106	79 - 123				
Dichlorodifluoromethane	18.16	1.0	20	0	90.8	32 - 152				
Ethylbenzene	19.59	1.0	20	0	98.0	79 - 121				
Hexachlorobutadiene	18.36	1.0	20	0	91.8	66 - 134				
Isopropylbenzene	18.59	1.0	20	0	93.0	72 - 131				
m,p-Xylene	39.81	2.0	40	0	99.5	80 - 121				
Methylene chloride	19.41	2.0	20	0	97.0	74 - 124				
Naphthalene	21.65	1.0	20	0	108	61 - 128				
n-Butylbenzene	18.22	1.0	20	0	91.1	75 - 128				
n-Propylbenzene	18.81	1.0	20	0	94.1	76 - 126				
o-Xylene	20.25	1.0	20	0	101	78 - 122				
sec-Butylbenzene	17.29	1.0	20	0	86.5	77 - 126				
Styrene	21.56	1.0	20	0	108	78 - 123				
tert-Butylbenzene	18.6	1.0	20	0	93.0	78 - 124				
Tetrachloroethene	19.21	1.0	20	0	96.0	74 - 129				
Toluene	20.85	1.0	20	0	104	80 - 121				
trans-1,2-Dichloroethene	18.83	1.0	20	0	94.1	75 - 124				
trans-1,3-Dichloropropene	21.52	1.0	20	0	108	73 - 127				
Trichloroethene	19.49	1.0	20	0	97.5	79 - 123				
Trichlorofluoromethane	17.45	1.0	20	0	87.3	65 - 141				
Vinyl chloride	18.11	1.0	20	0	90.5	58 - 137				
Surr: 1,2-Dichloroethane-d4	*45.45*	*1.0*	*50*	*0*	*90.9*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*49.74*	*1.0*	*50*	*0*	*99.5*	*85 - 114*				
Surr: Dibromofluoromethane	*48.48*	*1.0*	*50*	*0*	*97.0*	*80 - 119*				
Surr: Toluene-d8	*48.54*	*1.0*	*50*	*0*	*97.1*	*89 - 112*				

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

QC BATCH REPORT

Batch ID: R430844 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23031291-01MS** Units: **ug/L** Analysis Date: **23-Mar-2023 15:00**
Client ID: Run ID: **VOA6_430844** SeqNo: **7192088** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	18.01	1.0	20	0	90.0	78 - 124				
1,1,1-Trichloroethane	16.77	1.0	20	0	83.9	74 - 131				
1,1,2,2-Tetrachloroethane	17.56	1.0	20	0	87.8	71 - 121				
1,1,2-Trichloroethane	17.27	1.0	20	0	86.3	80 - 119				
1,1-Dichloroethane	14.96	1.0	20	0	74.8	77 - 125				S
1,1-Dichloroethene	16.73	1.0	20	0	83.6	71 - 131				
1,1-Dichloropropene	18.71	1.0	20	0	93.5	78 - 125				
1,2,3-Trichlorobenzene	18.72	1.0	20	0	93.6	69 - 129				
1,2,3-Trichloropropane	17.3	1.0	20	0	86.5	73 - 122				
1,2,4-Trichlorobenzene	19.19	1.0	20	0	95.9	69 - 130				
1,2,4-Trimethylbenzene	20.25	1.0	20	0	101	76 - 124				
1,2-Dibromo-3-chloropropane	18.84	1.0	20	0	94.2	62 - 128				
1,2-Dibromoethane	18.26	1.0	20	0	91.3	77 - 121				
1,2-Dichlorobenzene	19.08	1.0	20	0	95.4	80 - 119				
1,2-Dichloroethane	15.76	1.0	20	0	78.8	73 - 128				
1,2-Dichloropropane	15.89	1.0	20	0	79.4	78 - 122				
1,3,5-Trimethylbenzene	20.5	1.0	20	0	102	75 - 124				
1,3-Dichlorobenzene	19.01	1.0	20	0	95.1	80 - 119				
1,3-Dichloropropane	17.92	1.0	20	0	89.6	80 - 119				
1,4-Dichlorobenzene	18.63	1.0	20	0	93.2	79 - 118				
2,2-Dichloropropane	16.69	1.0	20	0	83.4	60 - 139				
2-Butanone	25.45	2.0	40	0	63.6	56 - 143				
2-Chlorotoluene	19.49	1.0	20	0	97.5	79 - 122				
2-Hexanone	33.05	2.0	40	0	82.6	57 - 139				
4-Chlorotoluene	19.39	1.0	20	0	96.9	78 - 122				
4-Isopropyltoluene	21.84	1.0	20	0	109	77 - 127				
4-Methyl-2-pentanone	35.29	2.0	40	0	88.2	67 - 130				
Acetone	20.09	2.0	40	0	50.2	39 - 160				
Benzene	16.68	1.0	20	0	83.4	79 - 120				
Bromobenzene	18.67	1.0	20	0	93.4	80 - 120				
Bromochloromethane	13.81	1.0	20	0	69.0	78 - 123				S
Bromodichloromethane	15.76	1.0	20	0	78.8	79 - 125				S
Bromoform	18.21	1.0	20	0	91.1	66 - 130				
Bromomethane	13.6	1.0	20	0	68.0	53 - 141				

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

QC BATCH REPORT

Batch ID: R430844 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23031291-01MS** Units: **ug/L** Analysis Date: **23-Mar-2023 15:00**
Client ID: Run ID: **VOA6_430844** SeqNo: **7192088** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	33.03	2.0	40	0	82.6	64 - 133				
Carbon tetrachloride	19.9	1.0	20	0	99.5	72 - 136				
Chlorobenzene	18.5	1.0	20	0	92.5	82 - 118				
Chloroethane	14.05	1.0	20	0	70.2	60 - 138				
Chloroform	14.16	1.0	20	0	70.8	79 - 124				S
Chloromethane	17.24	1.0	20	0	86.2	50 - 139				
cis-1,2-Dichloroethene	16.06	1.0	20	0.8747	75.9	78 - 123				S
cis-1,3-Dichloropropene	15.64	1.0	20	0	78.2	75 - 124				
Dibromochloromethane	17.45	1.0	20	0	87.2	74 - 126				
Dibromomethane	15.96	1.0	20	0	79.8	79 - 123				
Dichlorodifluoromethane	18.39	1.0	20	0	91.9	32 - 152				
Ethylbenzene	19.42	1.0	20	0	97.1	79 - 121				
Hexachlorobutadiene	24.32	1.0	20	0	122	66 - 134				
Isopropylbenzene	20.7	1.0	20	0	103	72 - 131				
m,p-Xylene	39.47	2.0	40	0	98.7	80 - 121				
Methylene chloride	13.96	2.0	20	0	69.8	74 - 124				S
Naphthalene	18.87	1.0	20	0	94.3	61 - 128				
n-Butylbenzene	22.34	1.0	20	0	112	75 - 128				
n-Propylbenzene	21.04	1.0	20	0	105	76 - 126				
o-Xylene	19.18	1.0	20	0	95.9	78 - 122				
sec-Butylbenzene	21.84	1.0	20	0	109	77 - 126				
Styrene	19.22	1.0	20	0	96.1	78 - 123				
tert-Butylbenzene	21.92	1.0	20	0	110	78 - 124				
Tetrachloroethene	22.32	1.0	20	0	112	74 - 129				
Toluene	19.28	1.0	20	0	96.4	80 - 121				
trans-1,2-Dichloroethene	15.93	1.0	20	0	79.6	75 - 124				
trans-1,3-Dichloropropene	15.92	1.0	20	0	79.6	73 - 127				
Trichloroethene	18.51	1.0	20	0	92.5	79 - 123				
Trichlorofluoromethane	18.61	1.0	20	0	93.1	65 - 141				
Vinyl chloride	16.57	1.0	20	0	82.9	58 - 137				
Surr: 1,2-Dichloroethane-d4	*40.25*	*1.0*	*50*	*0*	*80.5*	*81 - 118*				S
Surr: 4-Bromofluorobenzene	*49.62*	*1.0*	*50*	*0*	*99.2*	*85 - 114*				
Surr: Dibromofluoromethane	*43.15*	*1.0*	*50*	*0*	*86.3*	*80 - 119*				
Surr: Toluene-d8	*53.23*	*1.0*	*50*	*0*	*106*	*89 - 112*				

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

QC BATCH REPORT

Batch ID: R430844 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23031291-01MSD** Units: **ug/L** Analysis Date: **23-Mar-2023 15:21**
Client ID: Run ID: **VOA6_430844** SeqNo: **7192089** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.31	1.0	20	0	102	78 - 124	18.01	12	20	
1,1,1-Trichloroethane	18.75	1.0	20	0	93.8	74 - 131	16.77	11.2	20	
1,1,2,2-Tetrachloroethane	18.9	1.0	20	0	94.5	71 - 121	17.56	7.31	20	
1,1,2-Trichloroethane	19.63	1.0	20	0	98.1	80 - 119	17.27	12.8	20	
1,1-Dichloroethane	17.5	1.0	20	0	87.5	77 - 125	14.96	15.6	20	
1,1-Dichloroethene	19.74	1.0	20	0	98.7	71 - 131	16.73	16.5	20	
1,1-Dichloropropene	21.3	1.0	20	0	107	78 - 125	18.71	13	20	
1,2,3-Trichlorobenzene	21.34	1.0	20	0	107	69 - 129	18.72	13	20	
1,2,3-Trichloropropane	18.25	1.0	20	0	91.3	73 - 122	17.3	5.38	20	
1,2,4-Trichlorobenzene	22.3	1.0	20	0	112	69 - 130	19.19	15	20	
1,2,4-Trimethylbenzene	22.88	1.0	20	0	114	76 - 124	20.25	12.2	20	
1,2-Dibromo-3-chloropropane	18.56	1.0	20	0	92.8	62 - 128	18.84	1.52	20	
1,2-Dibromoethane	20.19	1.0	20	0	101	77 - 121	18.26	10	20	
1,2-Dichlorobenzene	21.57	1.0	20	0	108	80 - 119	19.08	12.2	20	
1,2-Dichloroethane	18.81	1.0	20	0	94.1	73 - 128	15.76	17.7	20	
1,2-Dichloropropane	18.84	1.0	20	0	94.2	78 - 122	15.89	17	20	
1,3,5-Trimethylbenzene	23.13	1.0	20	0	116	75 - 124	20.5	12.1	20	
1,3-Dichlorobenzene	21.8	1.0	20	0	109	80 - 119	19.01	13.6	20	
1,3-Dichloropropane	19.89	1.0	20	0	99.4	80 - 119	17.92	10.4	20	
1,4-Dichlorobenzene	20.61	1.0	20	0	103	79 - 118	18.63	10.1	20	
2,2-Dichloropropane	18.92	1.0	20	0	94.6	60 - 139	16.69	12.6	20	
2-Butanone	27.2	2.0	40	0	68.0	56 - 143	25.45	6.67	20	
2-Chlorotoluene	22.22	1.0	20	0	111	79 - 122	19.49	13.1	20	
2-Hexanone	35.47	2.0	40	0	88.7	57 - 139	33.05	7.07	20	
4-Chlorotoluene	22.48	1.0	20	0	112	78 - 122	19.39	14.8	20	
4-Isopropyltoluene	25.11	1.0	20	0	126	77 - 127	21.84	13.9	20	
4-Methyl-2-pentanone	36.75	2.0	40	0	91.9	67 - 130	35.29	4.05	20	
Acetone	20.95	2.0	40	0	52.4	39 - 160	20.09	4.23	20	
Benzene	19.62	1.0	20	0	98.1	79 - 120	16.68	16.2	20	
Bromobenzene	21.2	1.0	20	0	106	80 - 120	18.67	12.6	20	
Bromochloromethane	16.09	1.0	20	0	80.4	78 - 123	13.81	15.2	20	
Bromodichloromethane	18.79	1.0	20	0	94.0	79 - 125	15.76	17.6	20	
Bromoform	19.75	1.0	20	0	98.8	66 - 130	18.21	8.12	20	
Bromomethane	15.29	1.0	20	0	76.5	53 - 141	13.6	11.7	20	

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

QC BATCH REPORT

Batch ID: R430844 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23031291-01MSD** Units: **ug/L** Analysis Date: **23-Mar-2023 15:21**
Client ID: Run ID: **VOA6_430844** SeqNo: **7192089** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	37.65	2.0	40	0	94.1	64 - 133	33.03	13.1	20	
Carbon tetrachloride	22.28	1.0	20	0	111	72 - 136	19.9	11.3	20	
Chlorobenzene	21.44	1.0	20	0	107	82 - 118	18.5	14.7	20	
Chloroethane	14.67	1.0	20	0	73.3	60 - 138	14.05	4.32	20	
Chloroform	16.85	1.0	20	0	84.2	79 - 124	14.16	17.3	20	
Chloromethane	20.76	1.0	20	0	104	50 - 139	17.24	18.5	20	
cis-1,2-Dichloroethene	18.45	1.0	20	0.8747	87.9	78 - 123	16.06	13.8	20	
cis-1,3-Dichloropropene	18.98	1.0	20	0	94.9	75 - 124	15.64	19.3	20	
Dibromochloromethane	19.85	1.0	20	0	99.2	74 - 126	17.45	12.9	20	
Dibromomethane	18.48	1.0	20	0	92.4	79 - 123	15.96	14.7	20	
Dichlorodifluoromethane	19.26	1.0	20	0	96.3	32 - 152	18.39	4.64	20	
Ethylbenzene	22.2	1.0	20	0	111	79 - 121	19.42	13.3	20	
Hexachlorobutadiene	27.2	1.0	20	0	136	66 - 134	24.32	11.2	20	S
Isopropylbenzene	23.5	1.0	20	0	117	72 - 131	20.7	12.7	20	
m,p-Xylene	44.76	2.0	40	0	112	80 - 121	39.47	12.6	20	
Methylene chloride	16.92	2.0	20	0	84.6	74 - 124	13.96	19.2	20	
Naphthalene	20.47	1.0	20	0	102	61 - 128	18.87	8.14	20	
n-Butylbenzene	26.12	1.0	20	0	131	75 - 128	22.34	15.6	20	S
n-Propylbenzene	23.7	1.0	20	0	119	76 - 126	21.04	11.9	20	
o-Xylene	21.58	1.0	20	0	108	78 - 122	19.18	11.8	20	
sec-Butylbenzene	24.73	1.0	20	0	124	77 - 126	21.84	12.4	20	
Styrene	22.14	1.0	20	0	111	78 - 123	19.22	14.1	20	
tert-Butylbenzene	24.24	1.0	20	0	121	78 - 124	21.92	10.1	20	
Tetrachloroethene	24.99	1.0	20	0	125	74 - 129	22.32	11.3	20	
Toluene	22.11	1.0	20	0	111	80 - 121	19.28	13.7	20	
trans-1,2-Dichloroethene	18.2	1.0	20	0	91.0	75 - 124	15.93	13.3	20	
trans-1,3-Dichloropropene	18.9	1.0	20	0	94.5	73 - 127	15.92	17.1	20	
Trichloroethene	20.72	1.0	20	0	104	79 - 123	18.51	11.3	20	
Trichlorofluoromethane	20.31	1.0	20	0	102	65 - 141	18.61	8.72	20	
Vinyl chloride	18.4	1.0	20	0	92.0	58 - 137	16.57	10.4	20	
Surr: 1,2-Dichloroethane-d4	*39.96*	*1.0*	*50*	*0*	*79.9*	*81 - 118*	*40.25*	*0.709*	*20*	S
Surr: 4-Bromofluorobenzene	*49.59*	*1.0*	*50*	*0*	*99.2*	*85 - 114*	*49.62*	*0.0436*	*20*	
Surr: Dibromofluoromethane	*42.74*	*1.0*	*50*	*0*	*85.5*	*80 - 119*	*43.15*	*0.943*	*20*	
Surr: Toluene-d8	*52.74*	*1.0*	*50*	*0*	*105*	*89 - 112*	*53.23*	*0.923*	*20*	

ALS Houston, US Date: 31-Mar-23

Client:	Bhate Environmental Associates, Inc.
Project:	Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder:	HS23031294

QC BATCH REPORT

Batch ID:	**R430844 (0)**	**Instrument:**	**VOA6**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch: HS23031294-01 HS23031294-02

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

QC BATCH REPORT

Batch ID: R431068 (0) **Instrument:** WetChem_HS **Method:** CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993

MBLK Sample ID: **MBLK-R431068** Units: **mg/L** Analysis Date: **27-Mar-2023 13:00**
Client ID: Run ID: **WetChem_HS_431068** SeqNo: **7197687** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	7.50	15.0								U

LCS Sample ID: **LCS-R431068** Units: **mg/L** Analysis Date: **27-Mar-2023 13:00**
Client ID: Run ID: **WetChem_HS_431068** SeqNo: **7197686** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	99	15.0	100	0	99.0	85 - 115				

MS Sample ID: **HS23031129-02MS** Units: **mg/L** Analysis Date: **27-Mar-2023 13:00**
Client ID: Run ID: **WetChem_HS_431068** SeqNo: **7197689** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	76	15.0	50	26	100	80 - 120				

MSD Sample ID: **HS23031129-02MSD** Units: **mg/L** Analysis Date: **27-Mar-2023 13:00**
Client ID: Run ID: **WetChem_HS_431068** SeqNo: **7197688** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	74	15.0	50	26	96.0	80 - 120	76	2.67	20	

The following samples were analyzed in this batch: HS23031294-01

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

QC BATCH REPORT

Batch ID: R431099 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **27-Mar-2023 12:46**
Client ID: Run ID: **ICS-Integrion_431099** SeqNo: **7198775** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.250	0.500								U
Sulfate	0.250	0.500								U

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **27-Mar-2023 12:57**
Client ID: Run ID: **ICS-Integrion_431099** SeqNo: **7198776** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.44	0.500	20	0	102	80 - 120				
Sulfate	20.88	0.500	20	0	104	80 - 120				

MS Sample ID: **HS23031330-10MS** Units: **mg/L** Analysis Date: **27-Mar-2023 16:09**
Client ID: Run ID: **ICS-Integrion_431099** SeqNo: **7198803** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	104.8	0.500	10	99	57.6	80 - 120				SEO
Sulfate	107.6	0.500	10	99.89	77.2	80 - 120				SEO

MSD Sample ID: **HS23031330-10MSD** Units: **mg/L** Analysis Date: **27-Mar-2023 16:15**
Client ID: Run ID: **ICS-Integrion_431099** SeqNo: **7198804** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	105.8	0.500	10	99	67.9	80 - 120	104.8	0.984	20	SEO
Sulfate	109	0.500	10	99.89	90.8	80 - 120	107.6	1.25	20	EO

The following samples were analyzed in this batch: HS23031294-01

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

QC BATCH REPORT

Batch ID: R431158 (0) **Instrument: Balance1** **Method: OIL & GREASE (HEM) BY E1664A**

MBLK Sample ID: **WBLKW-032723** Units: **mg/L** Analysis Date: **27-Mar-2023 08:00**
Client ID: Run ID: **Balance1_431158** SeqNo: **7200135** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	1.00	2.00								U

LCS Sample ID: **WLCSW-032723** Units: **mg/L** Analysis Date: **27-Mar-2023 08:00**
Client ID: Run ID: **Balance1_431158** SeqNo: **7200137** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	40.3	2.00	40	0	101	78 - 114				

LCSD Sample ID: **WLCSDW-032723** Units: **mg/L** Analysis Date: **27-Mar-2023 08:00**
Client ID: Run ID: **Balance1_431158** SeqNo: **7200136** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	43.7	2.00	40	0	109	78 - 114	40.3	8.1	18	

MS Sample ID: **HS23031245-01MS** Units: **mg/L** Analysis Date: **27-Mar-2023 08:00**
Client ID: Run ID: **Balance1_431158** SeqNo: **7200119** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	43.3	2.00	40	1.667	104	78 - 114				

The following samples were analyzed in this batch: HS23031294-01

ALS Houston, US Date: 31-Mar-23

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: **HS23031294**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

ALS Houston, US Date: 31-Mar-23

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
California	2919 2022-2023	30-Apr-2023
Dept of Defense	L21-682	31-Dec-2023
Florida	E87611-36	30-Jun-2023
Illinois	2000322022-9	09-May-2023
Kansas	E-10352; 2022-2023	31-Jul-2023
Kentucky	123043, 2022-2023	30-Apr-2023
Louisiana	03087, 2022-2023	30-Jun-2023
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2022-2023	30-Apr-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-22-29	30-Apr-2023
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US Date: 31-Mar-23

Sample Receipt Checklist

Work Order ID: HS23031294 **Date/Time Received:** 22-Mar-2023 10:00

Client Name: Bhate Environmental **Received by:** Paresh M. Giga

Completed By: /S/ Jared R. Makan (eSignature) 22-Mar-2023 21:04 (Date/Time) **Reviewed by:** (eSignature) (Date/Time)

Matrices: **Water** Carrier name: **FedEx Priority Overnight**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:-
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	1.4°C/0.9°C UC/C	IR31
Cooler(s)/Kit(s):	43798	
Date/Time sample(s) sent to storage:	03/22/2023 21:05	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

01185095

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd., Suite 210 Houston, Tx. 77099 ATTN: Dane Wacasey

Project: BHATE LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. NWO1312.0150.0 16.0001
Job: **GROUNDWATER TREATMENT PLANT QUARTERLY INFLUENT SAMPLES**	
Prepared By: Scott Beesinger	P. O. Number

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analyses: ROD Volatiles	Total Metals	Oil & Grease	Chemical Oxygen Demand	Chloride & Sulfate	1, 4 - DIOXANE	Perchlorate				Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP140_032123	Water	03/21/23 / 13:00		4	3		1								HCL	
LH18/24-SP140_032123	Water	03/21/23 / 13:00		1		1									HNO3	
LH18/24-SP140_032123	Water	03/21/23 / 13:00		2					1	1					NONE	
LH18/24-SP140_032123	Water	03/21/23 / 13:00		1				1							H2SO4	
LH18/24-SP140_032123	Water	03/21/23 / 13:00		1							1				NONE	
Trip Blank	Water	03/21/23		2	2										HCL	

Additional Remarks: **STANDARD TURN AROUND TIME**

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	03/21/23	13:30		3/22/23	10:05						

For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition
43788									

Remarks:

HS23031294

Bhate Environmental Associates, Inc.

Groundwater Treatment Plant Quarterly Influent Sam

(Word) S:\1-ces\Forms\Chain of Custody - BiWeekly

01185096

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

43798

CUSTODY SEAL

Date: 3/27/23 Time: 1330

Name: Scott Beesinger

Company: BHATE

Seal Broken By:

Date: 03/27/23

43798

43798

ORIGIN ID:SGRA (903) 930-6193
SCOTT BEESINER
BHATE ENVIRONMENTAL ASSOCIATES
1203-B EAST GRAND AVE. PMB202

MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 09MAR23
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3702

TO SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: PERCH-91462-DW

FedEx Express

FedEx 0221 6230 2996 1150

WED - 22 MAR AA
PRIORITY OVERNIGHT

AB SGRA

77099
TX-US
IAH

3973907 21Mar2023 0GGA 5BHG7/9980/COBB

March 29, 2023 Service Request No:E2300286

Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS23031294

Dear Dane,

Enclosed are the results of the sample(s) submitted to our laboratory March 27, 2023
For your reference, these analyses have been assigned our service request number **E2300286.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Environmental

Client:	ALS Environmental - US	**Service Request No.:**	E2300286
Project:	HS23031294	**Date Received:**	03/27/23
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 03/27/23.

The sample was received in good condition and are consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2300157: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2300286
Project: HS23031294

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300286-001	LH18/24-SP140_032123	3/21/2023	1300

Service Request Summary

Folder #: **E2300286**
Client Name: ALS Environmental - US
Project Name: HS23031294
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 03/27/23
Internal Due Date: 3/29/2023
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23031294
EDD: BASIC_WQC_CASNo_LOD

1 100 mL-Plastic Bottle NM CLEAR Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:
Rush

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2300286-001	LH18/24-SP140_032123	Water	03/21/23 1300	**IV**

Service Request Summary

Folder #: **E2300286**
Client Name: ALS Environmental - US
Project Name: HS23031294
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 03/27/23
Internal Due Date: 3/29/2023
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23031294
EDD: BASIC_WQC_CASNo_LOD

1 100 mL-Plastic Bottle NM CLEAR Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:
Rush

Test Comments:

Group	Test/Method	Samples	Comments
Semivoa GCMS	ClO4 DOD/6850	1	IV due 4/5

Data Qualifiers

HRMS Qualifier Set

*	Indicates the samples were extracted outside of the recommended holding time.
B	Indicates the associated analyte was found in the method blank at >1/10th the reported value.
E	Estimated value. The reported concentration is above the calibration range of the instrument.
J	Estimated value. The reported concentration is below the MRL.
K	The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits.The concentration of this analyte should be considered as an estimate.
P	Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.
Q	Monitored lock-mass indicates matrix-interference. Reported result is estimated.
S	Signal saturated detector. Result reported from dilution.
U	Compound was analyzed for, but was not detected (ND).
X	See Case Narrative.
Y	Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-nois ratios are greater than 10:1, making the recoveries acceptable.
i	The MDL/MRL have been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793	5/27/2023
California Department of Health Services	2919-2023	4/30/2023
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Hawaii Department of Health	2022	4/30/2023
Illinois Environmental Protection Agency	2000322022-9	5/9/2023
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Michigan Depratment of Environmental Quality	9971-2022	4/30/2023
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2023
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209422	4/24/2023
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	11707	3/31/2023
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002	5/15/2023
Pennsylvania Department of Environmental Protection	68-03441-016	6/30/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	04016-2022	4/30/2023
Texas Commision on Environmental Quality	T104704231-22-29	4/30/2023
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

ALS

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: Colorado **COC ID:** 21213

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS23031294
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23031294-01**	**LH18/24-SP140_032123**	**Water**	**21 Mar 2023 13:00**
	SUB_Perch-6850			29 Mar 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: NR Date/Time:

Received By: LH Date/Time: 3-22-23 0800

Cooler ID(s): Temperature(s):

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Environmental

Cooler Receipt Form

Project Chemist JA

Client/Project ALS-H

Thermometer ID 1831

Date/Time Received: 3-22-23 Initials: CH Date/Time Logged in: 3-23-23 Initials CH

1. Method of delivery: ○ US Mail ○ Fed Ex ○ UPS ○ DHL ☑ ALS Courier ○ Client

2. Samples received in: ☑ Cooler ○ Box ○ Envelope ○ Other

3. Were custody seals on coolers? ○ Yes ☑ No
   Were they intact? ○ Yes ○ No ☑ N/A
   Were they signed and dated? ○ Yes ○ No ☑ N/A
   If yes, how many and where?

4. Packing Material: ○ Inserts ☑ Baggies ○ Bubble Wrap ○ Gel Packs ☑ Wet Ice ○ Sleeves ○ Other

5. Foreign or Regulated Soil? ○ Yes ○ No Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
NA		3-23-23	0900	CH	1.2	☑
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ☑ Yes ○ No
7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ☑ Yes ○ No
8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ☑ Yes ○ No
9. Were appropriate bottles/containers and volumes received for the requested tests? ☑ Yes ○ No
10. Did sample labels and tags agree with custody documents? ☑ Yes ○ No

Notes, Discrepancies, & Resolutions:

Service request Label:

10450 Stancliff Rd., Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 417279 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** **Prep Date/Time:** 3/28/23 08:36

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300255-001	GW-MW-66D2-20230313-01	.01	6850/ClO4			Ground Water	10mL	
2	E2300255-002	GW-MW-29D-20230313-01	.01	6850/ClO4			Ground Water	10mL	
3	E2300281-001	46DP02-GP01-4247-021523	.01	6850/ClO4 DOD			Water	10mL	
4	E2300281-002	46DP02-GP01P-4247-021523	.01	6850/ClO4 DOD			Water	10mL	
5	E2300281-003	WO-EB01-021523	.01	6850/ClO4 DOD			Water	10mL	
6	E2300281-004	46DP02-GP02-7277-021523	.01	6850/ClO4 DOD			Water	10mL	
7	E2300282-001	46DP03-GP01-4247-021623	.02	6850/ClO4 DOD			Water	10mL	
8	E2300282-002	WO-EB01-021623	.01	6850/ClO4 DOD			Water	10mL	
9	E2300282-003	46DP03-GP02-7277-021623	.01	6850/ClO4 DOD			Water	10mL	
10	E2300286-001	LH18/24-SP140_032123	.01	6850/ClO4 DOD			Water	10mL	
11	E2300287-001	LH18/24-SP650_032123_AIX	.01	6850/ClO4 DOD			Water	10mL	
12	EQ2300157-01	MB		6850/ClO4 DOD			Liquid	10mL	
13	EQ2300157-02	LCS		6850/ClO4 DOD			Liquid	10mL	
14	EQ2300157-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
15	EQ2300157-04	46DP03-GP01-4247-021623 MS	.02	6850/ClO4 DOD			Liquid	10mL	
16	EQ2300157-05	46DP03-GP01-4247-021623 DMS	.02	6850/ClO4 DOD			Liquid	10mL	
17	K2303259-001	LGAC-INT1-032023	.01	6850/ClO4			Water	10mL	
18	K2303261-001	LGAC-INF-032023	.01	6850/ClO4			Water	10mL	
19	R2302279-005	2303150909A BW-1-268	.01	6850/ClO4			Water	10mL	
20	R2302281-012	2303150953 STGT-SB-9	.01	6850/ClO4			Water	10mL	
21	R2302352-012	2303191303 100L-SB-20	.01	6850/ClO4			Water	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 227236 Logbook Ref: Perchlorate (1st Source) Expires On: 07/31/2023

EQ2300157-02	1.00µL	EQ2300157-03	1.00µL	EQ2300157-04	1.00µL	EQ2300157-05	1.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 227244 Logbook Ref: Perchlorate Internal Standard Expires On: 07/31/2023

E2300255-001	100.00µL	E2300255-002	100.00µL	E2300281-001	100.00µL	E2300281-002	100.00µL	E2300281-003	100.00µL	E2300281-004	100.00µL
E2300282-001	100.00µL	E2300282-002	100.00µL	E2300282-003	100.00µL	E2300286-001	100.00µL	E2300287-001	100.00µL	EQ2300157-01	100.00µL
EQ2300157-02	100.00µL	EQ2300157-03	100.00µL	EQ2300157-04	100.00µL	EQ2300157-05	100.00µL	K2303259-001	100.00µL	K2303261-001	100.00µL
R2302279-005	100.00µL	R2302281-012	100.00µL	R2302352-012	100.00µL						

Preparation Information Benchsheet

Prep Run#: 417279 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** **Prep Date/Time:** 3/28/23 08:36

Preparation Materials

Water HPLC Grade	01/04/2023 Water (226857)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 0.45um syringe filters	6850 Syringe Filters (224414)
6850 Luer-Lok Syringes	luer-lock syringes (228116)				

Preparation Steps

Step: Preparation
Started: 3/28/23 08:36
Finished: 3/28/23 09:37
By: XMI
Comments

Comments: _____

Reviewed By: XMI Date: 03/28/23

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300286
Project:	HS23031294	**Date Collected:**	3/21/23 1300
Sample Matrix:	Water	**Date Received:**	3/27/23
Sample Name:	LH18/24-SP140_032123	**Units:**	µg/L
Lab Code:	E2300286-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**16700**		100	50.0	25.0	1000	3/28/23	3/28/23 14:04	417279	799088	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300286
Project:	HS23031294	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300157-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND		0.100	0.0500	0.0250	1	3/28/23	3/28/23 12:30	417279	799088	

Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23031294
Sample Matrix: Water

Service Request: E2300286
Date Analyzed: 3/28/23

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 417279

	Lab Control Sample EQ2300157-02			Duplicate Lab Control Sample EQ2300157-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0918	0.100	92	0.0860	0.100	86	84 - 119	7	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300286
Project:	HS23031294	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300157-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0918**		0.100	0.0500	0.0250	1	3/28/23	3/28/23 12:36	417279	799088	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300286
Project:	HS23031294	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300157-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0860**		0.100	0.0500	0.0250	1	3/28/23	3/28/23 12:42	417279	799088	

HS23031294-MSVOA-SW8260

ALS WO# HS23031294

01185121

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA 8260

Workorder

HS23031294

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

Volatiles by EPA 8260

HS23031294-01	Collected	Received	Matrix	Basis
LH18/24-SP140_032123	03/21/23 13:00	03/22/23 10:00	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
1,1,1-Trichloroethane	ug/L	5.0	U	1.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
1,1,2,2-Tetrachloroethane	ug/L	5.0	U	2.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
1,1,2-Trichloroethane	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
1,1-Dichloroethane	ug/L	4.7	J	1.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
1,1-Dichloroethene	ug/L	5.0	U	1.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
1,1-Dichloropropene	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
1,2,3-Trichlorobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
1,2,3-Trichloropropane	ug/L	5.0	U	2.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
1,2,4-Trichlorobenzene	ug/L	5.0	U	2.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
1,2,4-Trimethylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
1,2-Dibromo-3-	ug/L	5.0	U	1.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
1,2-Dibromoethane	ug/L	5.0	U	1.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
1,2-Dichlorobenzene	ug/L	5.0	U	2.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
1,2-Dichloroethane	ug/L	19		1.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
1,2-Dichloropropane	ug/L	5.0	U	2.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
1,3,5-Trimethylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
1,3-Dichlorobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
1,3-Dichloropropane	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
1,4-Dichlorobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
2,2-Dichloropropane	ug/L	5.0	U	1.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
2-Butanone	ug/L	10	U	2.5	10	10	5	03/23/23 14:18	VOA6_430844_R43084	X032312
2-Chlorotoluene	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
2-Hexanone	ug/L	10	U	5.0	10	10	5	03/23/23 14:18	VOA6_430844_R43084	X032312
4-Chlorotoluene	ug/L	5.0	U	2.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
4-Isopropyltoluene	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
4-Methyl-2-pentanone	ug/L	10	U	3.5	10	10	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Acetone	ug/L	10	U	2.0	10	10	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Benzene	ug/L	5.0	U	1.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Bromobenzene	ug/L	5.0	U	2.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Bromochloromethane	ug/L	5.0	U	1.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Bromodichloromethane	ug/L	5.0	U	1.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Bromoform	ug/L	5.0	U	2.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23031294**

Volatiles by EPA 8260

HS23031294-01	Collected	Received	Matrix	Basis
LH18/24-SP140_032123	03/21/23 13:00	03/22/23 10:00	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	5.0	U	2.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Carbon disulfide	ug/L	10	U	3.0	10	10	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Carbon tetrachloride	ug/L	3.6	J	2.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Chlorobenzene	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Chloroethane	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Chloroform	ug/L	6.0		1.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Chloromethane	ug/L	5.0	U	1.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
cis-1,2-Dichloroethene	ug/L	1,200		10	50	50	50	03/23/23 14:39	VOA6_430844_R43084	X032313
cis-1,3-Dichloropropene	ug/L	5.0	U	0.50	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Dibromochloromethane	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Dibromomethane	ug/L	5.0	U	1.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Dichlorodifluoromethane	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Ethylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Hexachlorobutadiene	ug/L	5.0	U	5.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Isopropylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
m,p-Xylene	ug/L	10	U	2.5	10	10	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Methylene chloride	ug/L	770		2.0	10	10	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Naphthalene	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
n-Butylbenzene	ug/L	5.0	U	2.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
n-Propylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
o-Xylene	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
sec-Butylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Styrene	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
tert-Butylbenzene	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Tetrachloroethene	ug/L	16		1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Toluene	ug/L	5.0	U	1.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
trans-1,2-Dichloroethene	ug/L	4.4	J	1.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
trans-1,3-Dichloropropene	ug/L	5.0	U	1.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Trichloroethene	ug/L	2,800		10	50	50	50	03/23/23 14:39	VOA6_430844_R43084	X032313
Trichlorofluoromethane	ug/L	5.0	U	1.5	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312
Vinyl chloride	ug/L	95		1.0	5.0	5.0	5	03/23/23 14:18	VOA6_430844_R43084	X032312

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

Volatiles by EPA 8260

HS23031294-02	Collected	Received	Matrix	Basis
Trip Blank	03/21/23 00:00	03/22/23 10:00	Trip Blank	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23031294**

Volatiles by EPA 8260

HS23031294-02	Collected	Received	Matrix	Basis
Trip Blank	03/21/23 00:00	03/22/23 10:00	Trip Blank	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
cis-1,3-Dichloropropene	ug/L	1.0	U	0.10	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Trichlorofluoromethane	ug/L	3.6		0.30	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 13:36	VOA6_430844_R43084	X032310

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

Volatiles by EPA 8260

VBLKW-230323	Collected	Received	Matrix	Basis
VBLKW-230323	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

Volatiles by EPA 8260

VBLKW-230323	Collected	Received	Matrix	Basis
VBLKW-230323	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	03/23/23 12:33	VOA6_430844_R43084	X032307

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA 8260

Workorder

HS23031294

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

RunID
VOA6_430844_R430844

Volatiles by EPA 8260

CCV	Analyzed 03/23/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	45.98	50	92.0	80-120	
4-Bromofluorobenzene	51.4	50	103	80-120	
Dibromofluoromethane	48.79	50	97.6	80-120	
Toluene-d8	48.82	50	97.6	80-120	

CCB	Analyzed 03/23/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	38.74	50	77.5	80-120	*
4-Bromofluorobenzene	49.6	50	99.2	80-120	
Dibromofluoromethane	42.71	50	85.4	80-120	
Toluene-d8	53.51	50	107	80-120	

VLCSW-230323	Analyzed 03/23/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	45.45	50	90.9	81-118	
4-Bromofluorobenzene	49.74	50	99.5	85-114	
Dibromofluoromethane	48.48	50	97.0	80-119	
Toluene-d8	48.54	50	97.1	89-112	

VBLKW-230323	Analyzed 03/23/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	41.11	50	82.2	81-118	
4-Bromofluorobenzene	49.06	50	98.1	85-114	
Dibromofluoromethane	43.75	50	87.5	80-119	
Toluene-d8	54.08	50	108	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

Volatiles by EPA 8260

RunID
VOA6_430844_R430844

HS23031294-02	Analyzed 03/23/23	Conc Units µg/L	Dilution 1		
Surrogate	**Result Conc**	**Spike Conc**	**%Recovery**	**%Recovery Limits**	**Q**
1,2-Dichloroethane-d4	41	50	81.0	81-118	
4-Bromofluorobenzene	51	50	102	85-114	
Dibromofluoromethane	44	50	87.7	80-119	
Toluene-d8	52	50	103	89-112	

HS23031294-01	Analyzed 03/23/23	Conc Units µg/L	Dilution 5		
Surrogate	**Result Conc**	**Spike Conc**	**%Recovery**	**%Recovery Limits**	**Q**
1,2-Dichloroethane-d4	200	250	81.2	81-118	
4-Bromofluorobenzene	250	250	99.6	85-114	
Dibromofluoromethane	220	250	87.6	80-119	
Toluene-d8	270	250	107	89-112	
1,2-Dichloroethane-d4	2,000	2500	81.1	81-118	
4-Bromofluorobenzene	2,500	2500	98.8	85-114	
Dibromofluoromethane	2,200	2500	87.1	80-119	
Toluene-d8	2,700	2500	108	89-112	

HS23031291-01MS	Analyzed 03/23/23	Conc Units µg/L	Dilution 1		
Surrogate	**Result Conc**	**Spike Conc**	**%Recovery**	**%Recovery Limits**	**Q**
1,2-Dichloroethane-d4	40.25	50	80.5	81-118	*
4-Bromofluorobenzene	49.62	50	99.2	85-114	
Dibromofluoromethane	43.15	50	86.3	80-119	
Toluene-d8	53.23	50	106	89-112	

HS23031291-01MSD	Analyzed 03/23/23	Conc Units µg/L	Dilution 1		
Surrogate	**Result Conc**	**Spike Conc**	**%Recovery**	**%Recovery Limits**	**Q**
1,2-Dichloroethane-d4	39.96	50	79.9	81-118	*
4-Bromofluorobenzene	49.59	50	99.2	85-114	
Dibromofluoromethane	42.74	50	85.5	80-119	
Toluene-d8	52.74	50	105	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA 8260

Workorder

HS23031294

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23031294**

	HS23031291-01	HS23031291-01MS	HS23031291-01MSD	
Sample Matrix Aqueous	**Run Date** 03/23/23	03/23/23	03/23/23	
Units µg/L	**Run Time** 13:57	15:00	15:21	
	Data File X032311.D	X032314.D	X032315.D	

Analyte	%R Limits	DF	Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	1	0	18.01	20.00	90		20.31	20.00	102		20	12.0	
1,1,1-Trichloroethane	74-131	1	0	16.77	20.00	84		18.75	20.00	94		20	11.2	
1,1,2,2-Tetrachloroethane	71-121	1	0	17.56	20.00	88		18.9	20.00	95		20	7.30	
1,1,2-Trichloroethane	80-119	1	0	17.27	20.00	86		19.63	20.00	98		20	12.8	
1,1-Dichloroethane	77-125	1	0	14.96	20.00	75	*	17.5	20.00	88		20	15.6	
1,1-Dichloroethene	71-131	1	0	16.73	20.00	84		19.74	20.00	99		20	16.5	
1,1-Dichloropropene	78-125	1	0	18.71	20.00	94		21.3	20.00	107		20	13.0	
1,2,3-Trichlorobenzene	69-129	1	0	18.72	20.00	94		21.34	20.00	107		20	13.0	
1,2,3-Trichloropropane	73-122	1	0	17.30	20.00	87		18.25	20.00	91		20	5.40	
1,2,4-Trichlorobenzene	69-130	1	0	19.19	20.00	96		22.3	20.00	112		20	15.0	
1,2,4-Trimethylbenzene	76-124	1	0	20.25	20.00	101		22.88	20.00	114		20	12.2	
1,2-Dibromo-3-chloropropane	62-128	1	0	18.84	20.00	94		18.56	20.00	93		20	1.50	
1,2-Dibromoethane	77-121	1	0	18.26	20.00	91		20.19	20.00	101		20	10.0	
1,2-Dichlorobenzene	80-119	1	0	19.08	20.00	95		21.57	20.00	108		20	12.2	
1,2-Dichloroethane	73-128	1	0	15.76	20.00	79		18.81	20.00	94		20	17.7	
1,2-Dichloropropane	78-122	1	0	15.89	20.00	79		18.84	20.00	94		20	17.0	
1,3,5-Trimethylbenzene	75-124	1	0	20.50	20.00	102		23.13	20.00	116		20	12.1	
1,3-Dichlorobenzene	80-119	1	0	19.01	20.00	95		21.8	20.00	109		20	13.6	
1,3-Dichloropropane	80-119	1	0	17.92	20.00	90		19.89	20.00	99		20	10.4	
1,4-Dichlorobenzene	79-118	1	0	18.63	20.00	93		20.61	20.00	103		20	10.1	
2,2-Dichloropropane	60-139	1	0	16.69	20.00	83		18.92	20.00	95		20	12.6	
2-Butanone	56-143	1	0	25.45	40.00	64		27.2	40.00	68		20	6.70	
2-Chlorotoluene	79-122	1	0	19.49	20.00	98		22.22	20.00	111		20	13.1	
2-Hexanone	57-139	1	0	33.05	40.00	83		35.47	40.00	89		20	7.10	
4-Chlorotoluene	78-122	1	0	19.39	20.00	97		22.48	20.00	112		20	14.8	
4-Isopropyltoluene	77-127	1	0	21.84	20.00	109		25.11	20.00	126		20	13.9	
4-Methyl-2-pentanone	67-130	1	0	35.29	40.00	88		36.75	40.00	92		20	4.10	
Acetone	39-160	1	0	20.09	40.00	50		20.95	40.00	52		20	4.20	
Benzene	79-120	1	0	16.68	20.00	83		19.62	20.00	98		20	16.2	
Bromobenzene	80-120	1	0	18.67	20.00	93		21.2	20.00	106		20	12.6	
Bromochloromethane	78-123	1	0	13.81	20.00	69	*	16.09	20.00	80		20	15.2	
Bromodichloromethane	79-125	1	0	15.76	20.00	79	*	18.79	20.00	94		20	17.6	
Bromoform	66-130	1	0	18.21	20.00	91		19.75	20.00	99		20	8.10	
Bromomethane	53-141	1	0	13.60	20.00	68		15.29	20.00	77		20	11.7	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS23031294**

	HS23031291-01	HS23031291-01MS	HS23031291-01MSD	
Sample Matrix Aqueous	**Run Date** 03/23/23	03/23/23	03/23/23	
Units µg/L	**Run Time** 13:57	15:00	15:21	
	Data File X032311.D	X032314.D	X032315.D	

Analyte	%R Limits	DF	Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Carbon disulfide	64-133	1	0	33.03	40.00	83		37.65	40.00	94		20	13.1	
Carbon tetrachloride	72-136	1	0	19.90	20.00	100		22.28	20.00	111		20	11.3	
Chlorobenzene	82-118	1	0	18.50	20.00	93		21.44	20.00	107		20	14.7	
Chloroethane	60-138	1	0	14.05	20.00	70		14.67	20.00	73		20	4.30	
Chloroform	79-124	1	0	14.16	20.00	71	*	16.85	20.00	84		20	17.3	
Chloromethane	50-139	1	0	17.24	20.00	86		20.76	20.00	104		20	18.5	
cis-1,2-Dichloroethene	78-123	1	0.8747	16.06	20.00	76	*	18.45	20.00	88		20	13.8	
cis-1,3-Dichloropropene	75-124	1	0	15.64	20.00	78		18.98	20.00	95		20	19.3	
Dibromochloromethane	74-126	1	0	17.45	20.00	87		19.85	20.00	99		20	12.9	
Dibromomethane	79-123	1	0	15.96	20.00	80		18.48	20.00	92		20	14.7	
Dichlorodifluoromethane	32-152	1	0	18.39	20.00	92		19.26	20.00	96		20	4.60	
Ethylbenzene	79-121	1	0	19.42	20.00	97		22.2	20.00	111		20	13.3	
Hexachlorobutadiene	66-134	1	0	24.32	20.00	122		27.2	20.00	136	*	20	11.2	
Isopropylbenzene	72-131	1	0	20.70	20.00	103		23.5	20.00	117		20	12.7	
m,p-Xylene	80-121	1	0	39.47	40.00	99		44.76	40.00	112		20	12.6	
Methylene chloride	74-124	1	0	13.96	20.00	70	*	16.92	20.00	85		20	19.2	
n-Butylbenzene	75-128	1	0	22.34	20.00	112		26.12	20.00	131	*	20	15.6	
n-Propylbenzene	76-126	1	0	21.04	20.00	105		23.7	20.00	119		20	11.9	
Naphthalene	61-128	1	0	18.87	20.00	94		20.47	20.00	102		20	8.10	
o-Xylene	78-122	1	0	19.18	20.00	96		21.58	20.00	108		20	11.8	
sec-Butylbenzene	77-126	1	0	21.84	20.00	109		24.73	20.00	124		20	12.4	
Styrene	78-123	1	0	19.22	20.00	96		22.14	20.00	111		20	14.1	
tert-Butylbenzene	78-124	1	0	21.92	20.00	110		24.24	20.00	121		20	10.1	
Tetrachloroethene	74-129	1	0	22.32	20.00	112		24.99	20.00	125		20	11.3	
Toluene	80-121	1	0	19.28	20.00	96		22.11	20.00	111		20	13.7	
trans-1,2-Dichloroethene	75-124	1	0	15.93	20.00	80		18.2	20.00	91		20	13.3	
trans-1,3-Dichloropropene	73-127	1	0	15.92	20.00	80		18.9	20.00	95		20	17.1	
Trichloroethene	79-123	1	0	18.51	20.00	93		20.72	20.00	104		20	11.3	
Trichlorofluoromethane	65-141	1	0	18.61	20.00	93		20.31	20.00	102		20	8.70	
Vinyl chloride	58-137	1	0	16.57	20.00	83		18.4	20.00	92		20	10.4	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA 8260

Workorder

HS23031294

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

Volatiles by EPA 8260

VOA6_430844_R430844		QC ID	LCS-R430844
QC Matrix Aqueous	Units	Run Date	03/23/23
	ug/L	Run Time	11:50

Analyte	%R Limits	Spike Added	LCS Result	%R	Q
1,1,1,2-Tetrachloroethane	78-124	20	20.99	105	
1,1,1-Trichloroethane	74-131	20	18.76	94	
1,1,2,2-Tetrachloroethane	71-121	20	22.26	111	
1,1,2-Trichloroethane	80-119	20	21	105	
1,1-Dichloroethane	77-125	20	18.61	93	
1,1-Dichloroethene	71-131	20	17.17	86	
1,1-Dichloropropene	78-125	20	18.32	92	
1,2,3-Trichlorobenzene	69-129	20	20.07	100	
1,2,3-Trichloropropane	73-122	20	21.84	109	
1,2,4-Trichlorobenzene	69-130	20	20.14	101	
1,2,4-Trimethylbenzene	76-124	20	20.05	100	
1,2-Dibromo-3-chloropropane	62-128	20	22.86	114	
1,2-Dibromoethane	77-121	20	22.16	111	
1,2-Dichlorobenzene	80-119	20	21.18	106	
1,2-Dichloroethane	73-128	20	20.64	103	
1,2-Dichloroethane-d4	81-118	50	45.45	91	
1,2-Dichloropropane	78-122	20	20.25	101	
1,3,5-Trimethylbenzene	75-124	20	19.36	97	
1,3-Dichlorobenzene	80-119	20	19.9	100	
1,3-Dichloropropane	80-119	20	21.68	108	
1,4-Dichlorobenzene	79-118	20	19.95	100	
2,2-Dichloropropane	60-139	20	19.63	98	
2-Butanone	56-143	40	38.97	97	
2-Chlorotoluene	79-122	20	20.19	101	
2-Hexanone	57-139	40	44.37	111	
4-Bromofluorobenzene	85-114	50	49.74	100	
4-Chlorotoluene	78-122	20	20.56	103	
4-Isopropyltoluene	77-127	20	18.21	91	
4-Methyl-2-pentanone	67-130	40	44.92	112	
Acetone	39-160	40	37.9	95	
Benzene	79-120	20	19.82	99	
Bromobenzene	80-120	20	21.44	107	
Bromochloromethane	78-123	20	19.28	96	
Bromodichloromethane	79-125	20	20.72	104	
Bromoform	66-130	20	22.8	114	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

Volatiles by EPA 8260

VOA6_430844_R430844		QC ID	LCS-R430844
QC Matrix Aqueous	Units	Run Date	03/23/23
	ug/L	Run Time	11:50

Analyte	%R Limits	Spike Added	LCS Result	%R	Q
Bromomethane	53-141	20	20.93	105	
Carbon disulfide	64-133	40	33.54	84	
Carbon tetrachloride	72-136	20	18.13	91	
Chlorobenzene	82-118	20	20.62	103	
Chloroethane	60-138	20	16.54	83	
Chloroform	79-124	20	18.43	92	
Chloromethane	50-139	20	20.23	101	
cis-1,2-Dichloroethene	78-123	20	18.7	94	
cis-1,3-Dichloropropene	75-124	20	20.67	103	
Dibromochloromethane	74-126	20	21.06	105	
Dibromofluoromethane	80-119	50	48.48	97	
Dibromomethane	79-123	20	21.12	106	
Dichlorodifluoromethane	32-152	20	18.16	91	
Ethylbenzene	79-121	20	19.59	98	
Hexachlorobutadiene	66-134	20	18.36	92	
Isopropylbenzene	72-131	20	18.59	93	
m,p-Xylene	80-121	40	39.81	100	
Methylene chloride	74-124	20	19.41	97	
Naphthalene	61-128	20	21.65	108	
n-Butylbenzene	75-128	20	18.22	91	
n-Propylbenzene	76-126	20	18.81	94	
o-Xylene	78-122	20	20.25	101	
sec-Butylbenzene	77-126	20	17.29	86	
Styrene	78-123	20	21.56	108	
tert-Butylbenzene	78-124	20	18.6	93	
Tetrachloroethene	74-129	20	19.21	96	
Toluene	80-121	20	20.85	104	
Toluene-d8	89-112	50	48.54	97	
trans-1,2-Dichloroethene	75-124	20	18.83	94	
trans-1,3-Dichloropropene	73-127	20	21.52	108	
Trichloroethene	79-123	20	19.49	98	
Trichlorofluoromethane	65-141	20	17.45	87	
Vinyl chloride	58-137	20	18.11	90	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

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Form 4

Method Blank Summary

Volatiles by EPA 8260

Workorder

HS23031294

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

04/04/2023

ALS Environmental–Houston Laboratory
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www.alsglobal.com

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230323	X032307.D	03/23/23 12:33	VOA6_430844_R430844
VLCSW-230323	LCS	VLCSW-230323	X032305.D	03/23/23 11:50	VOA6_430844_R430844
Trip Blank	SAMP	HS23031294-02	X032310.D	03/23/23 13:36	VOA6_430844_R430844
LH18/24-SP140_032123	SAMP	HS23031294-01	X032312.D	03/23/23 14:18	VOA6_430844_R430844
LH18/24-SP140_032123	SAMP	HS23031294-01	X032313.D	03/23/23 14:39	VOA6_430844_R430844
BatchQC	MS	HS23031291-01MS	X032314.D	03/23/23 15:00	VOA6_430844_R430844
BatchQC	MSD	HS23031291-01MSD	X032315.D	03/23/23 15:21	VOA6_430844_R430844

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Form 5

Instrument Performance Check

Volatiles by EPA 8260

Workorder

HS23031294

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

RunID
VOA6_430425

Tune File X031701.D 03/17/23 11:08

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	15.2 (15.2)
75	30.0 - 60.0% of mass 95	44.4 (44.4)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.9 (6.87)
173	Less than 2.0% of mass 174	0.7 (0.806) 1
174	50.0 - 120.0% of mass 95	82.7 (82.7)
175	4.0 - 9.0% of mass 174	6 (7.26) 1
176	93.0 - 101.0% of mass 174	81.9 (99.1) 1
177	5.0 - 9.0% of mass 176	5.1 (6.23) 2

Value is % of mass 1) 174 2) 176 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	ICAL1	03/17/23 11:29	X031702	VSTD000.25
2	ICAL2	03/17/23 12:11	X031703	VSTD000.5
3	ICAL3	03/17/23 12:32	X031704	VSTD001
4	ICAL4	03/17/23 12:53	X031705	VSTD002
5	ICAL5	03/17/23 13:14	X031706	VSTD005
6	ICAL6	03/17/23 13:35	X031707	VSTD020
7	ICAL7	03/17/23 13:55	X031708	VSTD050
8	ICAL8	03/17/23 14:16	X031709	VSTD100
9	ICAL9	03/17/23 14:37	X031710	VSTD150
10	ICAL	03/17/23 14:58	X031711	VSTD200
11	ICV	03/17/23 15:40	X031713	CCV

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

RunID
VOA6_430844

Tune File X032301.D 03/23/23 10:26

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	15 (15)
75	30.0 - 60.0% of mass 95	43.7 (43.7)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.7 (6.69)
173	Less than 2.0% of mass 174	0.4 (0.443) 1
174	50.0 - 120.0% of mass 95	93.8 (93.8)
175	4.0 - 9.0% of mass 174	7 (7.5) 1
176	93.0 - 101.0% of mass 174	92.3 (98.4) 1
177	5.0 - 9.0% of mass 176	6 (6.53) 2

Value is % of mass 1) 174 2) 176 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	03/23/23 11:08	X032303	CCV
2	CCB	03/23/23 11:29	X032304	CCB
3	LCS	03/23/23 11:50	X032305	VLCSW-230323
4	MBLK	03/23/23 12:33	X032307	VBLKW-230323
5	SAMP	03/23/23 13:36	X032310	Trip Blank
6	SAMP	03/23/23 14:18	X032312	LH18/24-SP140_032123
7	SAMP	03/23/23 14:39	X032313	LH18/24-SP140_032123
8	MS	03/23/23 15:00	X032314	ZZZZZZMS
9	MSD	03/23/23 15:21	X032315	ZZZZZZMSD
10	CCV_EN	03/23/23 15:42	X032316	CCV-END

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Form 6

Initial Calibration Data

Volatiles by EPA 8260

Workorder

HS23031294

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129

ICAL End Date 17-MAR-2023 1458

Calibration Files

Level 1 ..voa6.i\X230317.b\X031702.D
Level 2 ..voa6.i\X230317.b\X031703.D
Level 3 ..voa6.i\X230317.b\X031704.D
Level 4 ..voa6.i\X230317.b\X031705.D
Level 5 ..voa6.i\X230317.b\X031706.D
Level 6 ..voa6.i\X230317.b\X031707.D
Level 7 ..voa6.i\X230317.b\X031708.D
Level 8 ..voa6.i\X230317.b\X031709.D
Level 9 ..voa6.i\X230317.b\X031710.D
Level 10 ..voa6.i\X230317.b\X031711.D

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Dichlorodifluoromethane	NE 117977	1644 277552	2581 404362	5239 NE	9602	49131	QUAD	0.01170	3.00325	-0.32334	0.99876	
Chloromethane	NE 0.44767	0.52882 0.47768	0.44328 0.50506	0.42183 0.48835	0.40199	0.42464	AVRG		0.45993		9.22052	
Propionitrile	NE 0.07225	0.07162 0.06705	0.08328 0.06253	0.06867 0.06930	0.07298	0.06639	AVRG		0.07045		8.25720	
Vinyl Chloride	NE 0.39920	0.42741 0.43351	0.35353 0.42226	0.40661 0.39814	0.32884	0.37489	AVRG		0.39382		8.94531	
Bromomethane	NE 0.23372	0.22648 0.23091	0.22809 0.23372	0.21383 NE	0.22055	0.22415	AVRG		0.22643		3.02149	
Chloroethane	NE 0.27457	0.33361 0.26536	0.31290 0.25345	0.29534 0.23826	0.26635	0.27379	AVRG		0.27929		10.66890	
Trichlorofluoromethane	NE 0.44131	0.52203 0.51302	0.47567 0.50556	0.46921 0.47503	0.34616	0.45614	AVRG		0.46712		11.26602	
Acrolein	NE 19125	179 43228	474 65230	794 87434	1386	7235	LINR	0.06233	0.02933		0.99811	
Acetone	NE 109249	2266 202318	2978 258914	5122 386486	12577	45236	LINR	-0.10404	0.12437		0.99647	
1,1-Dichloroethene	NE 0.28641	0.33823 0.29732	0.33665 0.29251	0.31845 0.27983	0.25876	0.29417	AVRG		0.30026		8.75947	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Isobutyl Alcohol	NE	0.04807	0.07135	0.07350	0.07205	0.06923						
	0.07036	0.06883	0.06417	0.07641			AVRG		0.06822		12.13006	
Acetonitrile	NE	0.04489	0.05402	0.04508	0.04417	0.04455						
	0.04839	0.04708	0.04478	0.04586			AVRG		0.04653		6.69442	
Allyl Chloride	NE	1.23465	1.28620	1.20030	1.14657	1.06036						
	1.15153	1.12223	1.06223	1.09513			AVRG		1.15102		6.71360	
Iodomethane	NE	1037	1627	2950	7971	49371						
	207928	585867	998873	1450729			QUAD	0.18536	2.69908	-0.17861	0.99452	
Acrylonitrile	NE	0.16259	0.17203	0.17163	0.14550	0.16669						
	0.17540	0.16940	0.16448	0.17396			AVRG		0.16685		5.44145	
Methylene Chloride	NE	2729	4854	8273	22035	76634						
	192572	376597	522386	711938			LINR	-0.03460	0.47251		0.99853	
Methyl tert-butyl ether	NE	1.87250	1.75350	1.74224	1.58536	1.47207						
	1.51899	1.48183	1.39555	1.40673			AVRG		1.58098		10.74933	
Carbon Disulfide	NE	1.24824	1.07163	1.14727	0.91974	1.00894						
	1.04077	1.16653	1.18572	1.13989			AVRG		1.10319		9.20968	
trans-1,2-Dichloroethene	NE	0.48015	0.45234	0.44967	0.39337	0.40283						
	0.41318	0.41980	0.40841	0.39167			AVRG		0.42349		7.19260	
Vinyl Acetate	NE	1.19101	1.17318	1.24812	1.35121	1.29926						
	1.37711	1.32703	1.24455	1.27332			AVRG		1.27609		5.44297	
1,1-Dichloroethane	NE	0.80832	0.79859	0.83084	0.71414	0.74169						
	0.77338	0.76084	0.74101	0.73400			AVRG		0.76698		5.06212	
Chloroprene	NE	0.15797	0.15233	0.15035	0.12853	0.12172						
	0.11812	0.13923	0.13748	0.12833			AVRG		0.13712		10.29751	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
2-Butanone	NE	0.14492	0.17464	0.16738	0.18277	0.17916						
	0.20265	0.18775	0.17682	0.19514			AVRG		0.17902		9.32872	
Methacrylonitrile	NE	0.47961	0.50874	0.46304	0.45981	0.44912						
	0.47291	0.44657	0.40953	0.45807			AVRG		0.46082		5.83293	
2,2-Dichloropropane	NE	2270	4259	9195	21125	89332						
	222642	466243	659792	905769			LINR	-0.00507	0.60113		0.99932	
cis-1,2-Dichloroethene	NE	0.56607	0.53866	0.54421	0.48693	0.48900						
	0.51187	0.50480	0.48720	0.48364			AVRG		0.51249		5.89360	
Chloroform	NE	1.06526	0.89370	0.90907	0.82447	0.79702						
	0.82178	0.79907	0.77111	0.77989			AVRG		0.85126		10.96560	
Bromochloromethane	NE	0.34747	0.31208	0.31221	0.28652	0.27224						
	0.28100	0.27176	0.26212	0.26476			AVRG		0.29002		9.78295	
1,1,1-Trichloroethane	NE	0.70881	0.63528	0.69613	0.54594	0.60592						
	0.59600	0.65244	0.64488	0.64378			AVRG		0.63658		7.84280	
1,1-Dichloropropene	NE	0.37001	0.37886	0.37422	0.32360	0.32672						
	0.32541	0.37427	0.37465	0.36304			AVRG		0.35675		6.73568	
1,2-Dichloroethane	NE	0.49578	0.43027	0.41447	0.39204	0.39261						
	0.41424	0.39760	0.39827	0.40563			AVRG		0.41566		7.82096	
Carbon Tetrachloride	NE	0.38512	0.37621	0.36020	0.31858	0.29724						
	0.29421	0.34865	0.35346	0.33997			AVRG		0.34151		9.47408	
Benzene	NE	1.36837	1.31455	1.30883	1.11213	1.15853						
	1.18290	1.21513	1.21268	1.19201			AVRG		1.22946		6.78629	
Trichloroethene	NE	0.37499	0.34162	0.34158	0.29240	0.30874						
	0.31254	0.33993	0.34226	0.32635			AVRG		0.33116		7.33053	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Bromodichloromethane	NE 0.42403	0.50192 0.42979	0.44325 0.42750	0.43356 0.43696	0.41657	0.41421	AVRG		0.43642		6.01375	
Methyl Methacrylate	NE 0.45468	0.47227 0.43739	0.44671 0.40542	0.42094 0.49066	0.44389	0.44056	AVRG		0.44584		5.68680	
2-Chloroethylvinyl ether	NE 0.14073	0.12154 0.13903	0.13088 0.13558	0.12336 0.14218	0.13070	0.13017	AVRG		0.13269		5.51544	
1,2-Dichloropropane	NE 0.32307	0.37615 0.32517	0.35844 0.31847	0.33371 0.32560	0.30960	0.31171	AVRG		0.33133		6.67382	
2-Nitropropane	NE 0.15278	0.15579 0.14676	0.17580 0.14210	0.17304 0.17749	0.14859	0.14043	AVRG		0.15698		9.34615	
Dibromomethane	NE 0.21088	0.21416 0.20453	0.22034 0.20083	0.22768 0.20439	0.21298	0.20627	AVRG		0.21134		4.06226	
4-Methyl-2-Pentanone	NE 0.32803	0.32067 0.31028	0.28645 0.29815	0.32186 0.33845	0.32581	0.31752	AVRG		0.31636		5.03158	
cis-1,3-Dichloropropene	NE 0.54728	0.61789 0.55999	0.51064 0.56057	0.54139 0.57565	0.52144	0.52623	AVRG		0.55123		5.90538	
Ethyl Methacrylate	NE 0.34518	0.37532 0.34442	0.40046 0.34169	0.36790 0.38217	0.39437	0.36115	AVRG		0.36808		5.93608	
Toluene	NE 1.31784	1.36360 1.33486	1.35460 1.30924	1.34294 1.30143	1.22572	1.25621	AVRG		1.31183		3.47950	
trans-1,3-Dichloropropene	NE 0.46881	0.45524 0.46750	0.43480 0.47187	0.45335 0.48925	0.43511	0.44268	AVRG		0.45762		4.01514	
2-Hexanone	NE 0.22814	0.21920 0.21427	0.19213 0.20591	0.21529 0.23764	0.22029	0.22128	AVRG		0.21713		5.95075	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
1,1,2-Trichloroethane	NE 0.28140	0.32249 0.27242	0.29066 0.26403	0.30279 0.27503	0.28685	0.27117	AVRG		0.28521		6.39221	
1,3-Dichloropropane	NE 0.57930	0.58721 0.55987	0.58401 0.54766	0.55929 0.56200	0.56249	0.55961	AVRG		0.56683		2.36109	
Dibromochloromethane	NE 0.40359	0.45755 0.40217	0.39816 0.40171	0.39690 0.40940	0.38257	0.37405	AVRG		0.40290		5.77788	
Tetrachloroethene	NE 0.24481	0.30927 0.27864	0.26475 0.27518	0.27730 0.26060	0.21975	0.23646	AVRG		0.26297		10.10817	
1,2-Dibromoethane	NE 0.36394	0.36078 0.35450	0.33495 0.34546	0.34900 0.35852	0.35755	0.34806	AVRG		0.35253		2.56635	
1-Chlorohexane	NE 119361	1701 288303	3010 412465	5763 638798	10247	49375	LINR	0.04477	0.24989		0.99823	
Chlorobenzene	NE 0.92404	1.02126 0.93372	0.97096 0.93315	0.93772 0.92768	0.88987	0.89884	AVRG		0.93747		4.16730	
1,1,1,2-Tetrachloroethane	NE 0.35307	0.43057 0.36128	0.35450 0.36587	0.34011 0.37191	0.33324	0.34080	AVRG		0.36126		8.01239	
Ethylbenzene	NE 0.43812	0.54631 0.46539	0.48701 0.46890	0.46674 0.45227	0.40163	0.42592	AVRG		0.46137		8.87817	
m,p-Xylenes	NE 0.56015	0.65300 0.58544	0.60028 0.58238	0.61865 0.57932	0.50462	0.54179	AVRG		0.58063		7.40819	
o-Xylene	NE 0.56178	0.68241 0.57988	0.61521 0.57471	0.58560 0.56951	0.53785	0.54396	AVRG		0.58343		7.47056	
Styrene	NE 0.98499	0.97967 0.99427	0.91923 0.99127	0.96004 0.97711	0.90632	0.96351	AVRG		0.96405		3.25239	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Bromoform	NE 0.29082	0.30996 0.28454	0.25650 0.28902	0.24947 0.29596	0.26157	0.26945	AVRG		0.27859		7.27750	
Isopropylbenzene	NE 1.24429	1.42556 1.38661	1.45286 1.37809	1.47212 1.35267	1.12383	1.19028	AVRG		1.33626		9.14543	
1,1,2,2-Tetrachloroethane	NE 0.85932	0.99715 0.82772	0.84918 0.81837	0.88045 0.88925	0.89221	0.82734	AVRG		0.87122		6.27988	
1,2,3-Trichloropropane	NE 0.67077	0.70191 0.61192	0.64722 0.69479	0.66016 0.64266	0.64496	0.61845	AVRG		0.65476		4.69619	
trans-1,4-Dichloro-2-butene	NE 62606	541 125897	1007 181079	1998 NE	5471	23270	LINR	0.01057	0.11249		0.99985	
n-Propylbenzene	NE 2.59864	3.07273 2.98014	2.81938 2.97016	2.96967 2.86997	2.25283	2.47692	AVRG		2.77894		9.93810	
Bromobenzene	NE 0.78640	0.82667 0.82135	0.81792 0.82414	0.81212 0.83253	0.76727	0.74640	AVRG		0.80387		3.75046	
1,3,5-Trimethylbenzene	NE 2.03282	2.33558 2.25975	2.24733 2.24397	2.27828 2.22495	1.83105	1.94518	AVRG		2.15544		8.10253	
2-Chlorotoluene	NE 1.76962	1.89176 1.85674	2.04730 1.88892	1.99410 1.86296	1.74847	1.75572	AVRG		1.86840		5.54193	
4-Chlorotoluene	NE 2.03979	2.20002 2.17419	2.01524 2.17083	2.18800 2.20748	1.93389	2.02354	AVRG		2.10589		4.85891	
tert-Butylbenzene	NE 1.55788	1.89653 1.84581	1.87243 1.82858	1.87631 1.69495	1.38270	1.49567	AVRG		1.71676		11.23010	
1,2,4-Trimethylbenzene	NE 2.10068	2.54669 2.30265	2.23258 2.29594	2.27654 2.17064	1.93041	2.03887	AVRG		2.21056		8.07996	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
sec-Butylbenzene	NE 2.06318	2.65431 2.52097	2.47990 2.53562	2.54193 2.49046	1.73328	1.92216	AVRG		2.32687		14.17711	
p-Isopropyltoluene	NE 1.93839	2.19685 2.32649	2.05820 2.31463	2.15716 2.23292	1.65060	1.81141	AVRG		2.07629		11.24017	
1,3-Dichlorobenzene	NE 1.32396	1.54668 1.42092	1.38453 1.42199	1.43945 1.40436	1.26526	1.30578	AVRG		1.39033		6.02976	
1,4-Dichlorobenzene	NE 1.38005	1.70732 1.46627	1.58825 1.45591	1.57580 1.46483	1.42184	1.38831	AVRG		1.49428		7.23520	
Benzyl Chloride	NE 426174	4324 885238	6470 1294607	13841 2013195	37307	154893	LINR	0.03086	0.81749		0.99946	
n-Butylbenzene	NE 1.60041	1.63271 1.94230	1.64467 1.92058	1.68075 1.87668	1.29432	1.46836	AVRG		1.67342		12.82247	
1,2-Dichlorobenzene	NE 1.34885	1.57367 1.41654	1.34942 1.40869	1.41060 1.38069	1.27630	1.35073	AVRG		1.39061		5.85882	
1,2-Dibromo-3-Chloropropane	NE 47841	405 98490	779 139207	1655 226912	4699	18853	LINR	0.02958	0.16534		0.99809	
1,2,4-Trichlorobenzene	NE 1.00455	1.08223 1.13367	0.87450 1.11828	1.02139 1.07113	0.89791	0.94636	AVRG		1.01667		9.24691	
Hexachlorobutadiene	NE 105547	1367 283471	2560 412820	5380 NE	7780	38257	QUAD	0.03607	2.56269	-0.33486	0.99529	
Naphthalene	NE 2.52061	2.50034 2.65506	2.20357 2.54418	2.20551 2.60544	2.31690	2.40934	AVRG		2.44011		6.82059	
1,2,3-Trichlorobenzene	NE 0.95539	1.04033 1.06496	0.90929 1.02056	0.95995 1.00211	0.88752	0.91562	AVRG		0.97286		6.42308	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Ethyl Acetate	NE 0.52072	0.54051 0.50146	0.49296 0.46849	0.51096 0.49537	0.56836	0.54892	AVRG		0.51642		6.08436	
Methyl Acrylate	NE 0.51738	0.52393 0.55846	0.44836 0.52213	0.51795 0.56577	0.50638	0.49999	AVRG		0.51782		6.57767	
n-Butanol	NE 92688	783 199313	1715 285255	3165 NE	6157	30431	LINR	0.63414	0.01335		0.99896	
Ethyl Acrylate	NE 1.11405	0.99076 1.19194	1.12042 1.16984	1.06243 1.31670	0.86029	0.99327	AVRG		1.09108		12.22730	
Cyclohexanone	NE 0.02952	0.03375 0.02809	0.03195 0.02606	0.02943 0.02856	0.03083	0.02908	AVRG		0.02970		7.56510	
1,4-Dioxane	0.00696 0.00658	0.00680 0.00621	0.00654 0.00620	0.00674 0.00704	0.00709	0.00619	AVRG		0.00663		5.26390	
n-Hexane	NE 126023	1555 370085	2771 NE	5204 NE	5476	45980	QUAD	0.00698	3.42252	-1.42434	0.99926	
Freon TF	NE 91222	1102 233445	2078 333134	4071 NE	6618	37539	QUAD	0.02420	3.65908	-0.52618	0.99678	
Methyl Acetate	NE 0.32130	0.28739 0.30124	0.22397 0.28373	0.27999 0.30332	0.29368	0.29189	AVRG		0.28739		9.32474	
Methylcyclohexane	NE 0.70044	0.69100 0.75525	0.64865 0.75148	0.69990 0.78696	0.56068	0.61894	AVRG		0.69037		10.38603	
Isopropyl alcohol	NE 0.02882	0.02690 0.02870	0.02596 0.02726	0.02833 0.02956	0.02963	0.02666	AVRG		0.02798		4.73915	
Amyl alcohol	NE 0.00921	0.00938 0.00936	0.00843 0.00926	0.00802 0.01105	0.00807	0.00832	AVRG		0.00901		10.55075	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Allyl alcohol	NE 126023	1223 370085	2361 NE	4552 NE	7188	45980	QUAD	0.12531	68.55174	-28.57566	0.99968	
4-Methyl-2-pentanol	NE 0.07028	0.07218 0.06948	0.08069 0.06869	0.06890 0.07941	0.07462	0.07259	AVRG		0.07298		6.10526	
Tert-butyl alcohol	NE 0.05268	0.05876 0.05125	0.04549 0.04860	0.05641 0.05380	0.05429	0.04996	AVRG		0.05236		7.74187	
Diethyl ether	NE 0.33578	0.36270 0.31513	0.40266 0.29580	0.34183 0.30400	0.32767	0.32963	AVRG		0.33502		9.65312	
1,3-Butadiene	NE 0.33263	0.37004 0.36282	0.35545 0.35134	0.35718 0.33578	0.26683	0.31968	AVRG		0.33908		9.27765	
Cyclohexane	NE 172149	2139 457578	3748 641070	7493 NE	11367	64931	QUAD	0.03517	1.87606	-0.13528	0.99515	
Tetrahydrofuran	NE 0.08545	0.08347 0.07793	0.08090 0.07160	0.08443 0.08065	0.08832	0.08208	AVRG		0.08165		5.91459	
alpha-Methylstyrene	NE 1.05799	1.22446 1.16084	1.01331 1.15374	1.07347 1.15449	0.95125	1.02127	AVRG		1.09009		8.10663	
Diisopropyl ether	NE 1.52297	1.58592 1.50511	1.86150 1.39574	1.66827 1.40729	1.55180	1.47196	AVRG		1.55229		9.25922	
Dichlorofluoromethane	NE 0.61195	0.63540 0.60386	0.69896 0.58655	0.68022 0.57031	0.59675	0.59076	AVRG		0.61942		7.08410	
Propylene oxide	NE 0.03299	0.02841 0.03015	0.02964 NE	0.02903 NE	0.03603	0.03209	AVRG		0.03119		8.61491	
3-Methyl-1-butanol	NE 0.00925	0.00741 0.00939	0.00803 0.00907	0.00807 0.01050	0.00830	0.00852	AVRG		0.00873		10.62883	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Butyl acrylate	NE 0.74976	0.77674 0.72330	0.83254 0.71771	0.69297 0.77332	0.67129	0.70453	AVRG		0.73802		6.78319	
1,2,3-Trimethylbenzene	NE 2.22962	2.67209 2.35989	2.78492 2.35397	2.53464 2.33195	2.21000	2.10318	AVRG		2.39781		9.34724	
Ethanol	NE 0.00451	0.00541 0.00418	0.00450 0.00382	0.00454 0.00378	0.00496	0.00466	AVRG		0.00448		11.56839	
1-Propanol	NE 0.00906	NE 0.00919	NE 0.00830	0.00915 0.00806	0.00911	0.00841	AVRG		0.00875		5.46375	*
tert-Butyl formate	NE 0.42407	0.36379 0.40989	0.39051 0.39353	0.38803 0.49413	0.41115	0.39152	AVRG		0.40740		9.02997	
3,3-Dimethyl-1-butanol	NE 0.03695	0.04227 0.03569	0.04264 0.03518	0.03988 0.04030	0.03707	0.03678	AVRG		0.03853		7.27086	
tert-Amyl methyl ether	NE 1.64579	1.91681 1.64432	2.05185 1.60657	1.82890 1.86189	1.87437	1.67183	AVRG		1.78915		8.56987	
tert-Butyl ethyl ether	NE 1.58262	1.68326 1.58321	1.88099 1.49595	1.68500 1.51427	1.66573	1.54264	AVRG		1.62596		7.32298	
tert-Amyl alcohol	NE 0.04241	0.04425 0.04099	0.04293 0.03935	0.04378 0.04941	0.04282	0.03915	AVRG		0.04279		7.17678	
Epichlorohydrin	NE 0.02872	0.02662 0.02741	0.03540 0.02658	0.02981 0.02937	0.02683	0.02597	AVRG		0.02852		10.20060	
Isoprene	NE 0.09308	0.09815 0.09978	0.11295 0.09626	0.08947 0.09538	0.08836	0.08980	AVRG		0.09591		7.85895	*
n-Amyl acetate	NE 0.61472	0.59052 0.59998	0.61934 0.60781	0.59856 0.69186	0.64648	0.61861	AVRG		0.62087		5.01819	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Isopropyl acetate	NE 0.89013	0.94786 0.87195	1.00803 0.82482	0.89720 0.91369	0.92246	0.87199	AVRG		0.90535		5.75588	
n-Butyl acetate	NE 0.55489	0.52734 0.54065	0.45742 0.53179	0.48360 0.60856	0.52615	0.53537	AVRG		0.52953		8.00581	
Acetaldehyde	NE 48915	NE 91272	NE 122135	3379 184725	4487	14072	LINR	-0.01634	0.02971		0.99671	*
Methyl Amyl Ketone	NE 0.78795	0.77360 0.76154	0.89045 0.74140	0.77776 0.82302	0.77026	0.78465	AVRG		0.79007		5.51596	
Dimethyl Disulfide	NE 0.72347	0.64395 0.74389	0.60230 0.73055	0.53037 0.73800	0.56160	0.61855	AVRG		0.65474		12.50973	
Isobutylene	NE 0.03870	0.04241 0.04143	0.04405 0.04084	0.04161 0.04385	0.03879	0.04238	AVRG		0.04156		4.59996	*
2-Ethylhexyl Acrylate	NE 0.78906	0.72001 0.84406	0.70124 0.83763	0.66428 0.84354	0.58247	0.66098	AVRG		0.73814		12.86575	*
1,2-Dichloroethylene (total)	NE 0.46252	0.52311 0.46230	0.49550 0.44780	0.49694 0.43766	0.44015	0.44591	AVRG		0.46799		6.44840	
Xylenes (total)	NE 0.52260	0.63274 0.55430	0.57657 0.55866	0.58656 0.55103	0.49324	0.51792	AVRG		0.55485		7.47785	
Dibromofluoromethane	NE 170305	1948 363757	4137 489100	8112 702510	18353	75605	LINR	-0.01548	0.45880		0.99908	
1,2-Dichloroethane-d4	NE 195743	2080 399036	4794 545784	8436 874210	22180	83385	LINR	0.02097	0.55062		0.99520	
Toluene-d8	NE 1.10886	1.32113 1.24227	1.45357 1.16084	1.30957 1.14185	1.21562	1.20182	AVRG		1.23950		8.66053	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430425

ICAL Start Date 17-MAR-2023 1129 **ICAL End Date** 17-MAR-2023 1458

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
4-Bromofluorobenzene	NE 251415	3243 535221	6673 758344	12929 1161000	32222	111601	LINR	-0.00357	0.47168		0.99980	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA 8260

Workorder

HS23031294

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430425

Instrument ID voa6.i ICAL Date 17-MAR-2023
Lab File ID X031713.D ICAL Time 1355
?VAL? ?VAL? Conc Units ug/L
Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachlor	50.00	46.92	93.85	80-120	
1,1,1-Trichloroeth	50.00	45.72	91.44	80-120	
1,1,2,2-Tetrachlor	50.00	49.58	99.16	80-120	
Freon TF	50.00	40.85	81.71	80-120	
Methyl acetate	50.00	48.86	97.72	80-120	
Cyclohexane	50.00	40.96	81.93	80-120	
Methylcyclohexane	50.00	49.74	99.50	80-120	
Carbon Disulfide	100.00	81.89	81.90	80-120	
2-Hexanone	100.00	105.20	105.21	80-120	
1,1,2-Trichloroeth	50.00	47.32	94.66	80-120	
1,1-Dichloroethane	50.00	44.17	88.36	80-120	
1,1-Dichloroethene	50.00	41.61	83.22	80-120	
1,1-Dichloropropen	50.00	44.65	89.32	80-120	
1,2,3-Trichloroben	50.00	51.16	102.32	80-120	
1,2,3-Trichloropro	50.00	51.61	103.23	80-120	
1,2,4-Trichloroben	50.00	51.25	102.51	80-120	
1,2,4-Trimethylben	50.00	45.63	91.26	80-120	
1,2-Dibromo-3-Chlo	50.00	49.26	98.52	80-120	
1,2-Dibromoethane	50.00	50.57	101.16	80-120	
Acrolein	100.00	86.85	86.86	80-120	
Acrylonitrile	100.00	97.67	97.67	80-120	
1,2-Dichlorobenzen	50.00	48.96	97.93	80-120	
1,2-Dichloroethane	50.00	53.28	106.57	80-120	
1,2-Dichloropropan	50.00	48.34	96.70	80-120	
1,3,5-Trimethylben	50.00	45.34	90.70	80-120	
1,3-Dichlorobenzen	50.00	46.63	93.26	80-120	
1,3-Dichloropropan	50.00	49.10	98.22	80-120	
1,4-Dichlorobenzen	50.00	46.12	92.26	80-120	
1-Chlorohexane	50.00	44.21	88.42	80-120	
2,2-Dichloropropan	50.00	45.47	90.95	80-120	
2-Butanone	100.00	107.54	107.54	80-120	
2-Chloroethylvinyl	100.00	106.60	106.60	80-120	
2-Chlorotoluene	50.00	47.06	94.13	80-120	
4-Chlorotoluene	50.00	49.27	98.56	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430425

Instrument ID voa6.i ICAL Date 17-MAR-2023
Lab File ID X031713.D ICAL Time 1355
?VAL? ?VAL? Conc Units ug/L
Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.00	44.79	89.58	80-120	
4-Methyl-2-Pentano	100.00	103.09	103.09	80-120	
Acetone	100.00	115.87	115.88	80-120	
Acetonitrile	500.00	479.23	95.85	80-120	
Allyl Chloride	50.00	44.91	89.83	80-120	
Benzene	50.00	46.73	93.47	80-120	
Bromobenzene	50.00	48.59	97.20	80-120	
Bromochloromethane	50.00	44.80	89.62	80-120	
Bromodichlorometha	50.00	50.86	101.73	80-120	
Bromoform	50.00	50.40	100.80	80-120	
Bromomethane	50.00	52.24	104.49	80-120	
Carbon Tetrachlori	50.00	43.04	86.09	80-120	
Chlorobenzene	50.00	46.07	92.16	80-120	
Chloroethane	50.00	42.66	85.33	80-120	
Chloroform	50.00	46.58	93.17	80-120	
Chloromethane	50.00	46.05	92.11	80-120	
Chloroprene	50.00	41.81	83.63	80-120	
cis-1,2-Dichloroet	50.00	43.18	86.37	80-120	
cis-1,3-Dichloropr	50.00	51.12	102.25	80-120	
Dibromochlorometha	50.00	48.25	96.51	80-120	
Dibromomethane	50.00	50.81	101.63	80-120	
Dichlorodifluorome	50.00	41.35	82.71	80-120	
Ethylbenzene	50.00	43.74	87.48	80-120	
Ethyl Methacrylate	50.00	45.45	90.91	80-120	
Iodomethane	100.00	98.16	98.17	80-120	
Isobutyl Alcohol	1000.00	1059.98	106.00	70-130	
Propionitrile	500.00	477.22	95.45	70-130	
Hexachlorobutadien	50.00	48.89	97.80	80-120	
Isopropylbenzene	50.00	42.85	85.70	80-120	
m,p-Xylenes	100.00	88.22	88.23	80-120	
Methyl tert-butyl	50.00	44.90	89.82	80-120	
Methylene Chloride	50.00	45.58	91.17	80-120	
Methacrylonitrile	50.00	50.48	100.97	80-120	
Methyl Methacrylat	50.00	51.29	102.58	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430425

Instrument ID voa6.i ICAL Date 17-MAR-2023
Lab File ID X031713.D ICAL Time 1355
?VAL? ?VAL? Conc Units ug/L
Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.00	49.41	98.82	80-120	
n-Propylbenzene	50.00	45.80	91.61	80-120	
Naphthalene	50.00	53.24	106.49	80-120	
o-Xylene	50.00	44.53	89.08	80-120	
sec-Butylbenzene	50.00	42.06	84.13	80-120	
Styrene	50.00	48.45	96.92	80-120	
tert-Butylbenzene	50.00	42.95	85.91	80-120	
Tetrachloroethene	50.00	42.56	85.13	80-120	
Toluene	50.00	45.79	91.60	80-120	
trans-1,2-Dichloro	50.00	42.69	85.40	80-120	
trans-1,3-Dichloro	50.00	53.42	106.85	80-120	
trans-1,4-Dichloro	50.00	52.13	104.27	80-120	
Trichloroethene	50.00	42.62	85.25	80-120	
Trichlorofluoromet	50.00	44.23	88.48	80-120	
Vinyl Acetate	100.00	104.31	104.32	80-120	
Vinyl Chloride	50.00	45.61	91.22	80-120	
1,2-Dichloroethyle	100.00	85.88	85.88	80-120	
Xylenes (total)	150.00	132.76	88.51	80-120	
1,4-Dioxane	1000.00	949.60	94.96	80-120	
Dibromofluorometha	50.00	53.33	106.66	71-125	
1,2-Dichloroethane	50.00	53.95	107.91	70-125	
Toluene-d8	50.00	49.38	98.76	75-125	
4-Bromofluorobenze	50.00	52.50	105.01	72-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA 8260

Workorder

HS23031294

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

04/04/2023

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430844

Instrument ID voa6.i Injection Date 23-MAR-2023 1108
Lab File ID X032303.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00663	0.00626	0.00626	0.001	5.67899	20.0	Averaged	
1,3-Butadiene	0.33908	0.26976	0.26976	0.100	20.44525	20.0	Averaged	<-
Methacrylonitrile	0.46082	0.41830	0.41830	0.100	9.22684	20.0	Averaged	
Isobutyl Alcohol	0.06822	0.06266	0.06266	0.005	8.15098	20.0	Averaged	
Acetonitrile	0.04653	0.04088	0.04088	0.005	12.14890	20.0	Averaged	
Allyl Chloride	1.15102	0.99584	0.99584	0.100	13.48219	20.0	Averaged	
Propionitrile	0.07045	0.06736	0.06736	0.010	4.38629	20.0	Averaged	
Tetrahydrofuran	0.08165	0.08077	0.08077	0.001	1.07071	20.0	Averaged	
alpha-Methylstyrene	1.09009	1.05971	1.05971	0.100	2.78726	20.0	Averaged	
Diisopropyl ether	1.55229	1.27734	1.27734	0.100	17.71249	20.0	Averaged	
Epichlorohydrin	0.02852	0.03052	0.03052	0.001	-6.98464	20.0	Averaged	
1,2,3-Trimethylbenzene	2.39781	2.22360	2.22360	0.100	7.26519	20.0	Averaged	
Dichlorodifluoromethane	50.0	44.37325	0.30139	0.100	11.25350	20.0	Quadratic	
Chloromethane	0.45993	0.42445	0.42445	0.100	7.71409	20.0	Averaged	
Vinyl Chloride	0.39382	0.33404	0.33404	0.100	15.18051	20.0	Averaged	
Bromomethane	0.22643	0.22895	0.22895	0.100	-1.11314	20.0	Averaged	
Chloroethane	0.27929	0.22346	0.22346	0.100	19.99119	20.0	Averaged	
Trichlorofluoromethane	0.46712	0.41788	0.41788	0.100	10.54121	20.0	Averaged	
Acrolein	100	73.59405	0.02067	0.010	26.40595	20.0	Linear	<-
Acetone	100	92.32517	0.12130	0.100	7.67483	20.0	Linear	
1,1-Dichloroethene	0.30026	0.25829	0.25829	0.100	13.97581	20.0	Averaged	
Iodomethane	100	113	0.40719	0.100	-13.24848	20.0	Quadratic	
Acrylonitrile	0.16685	0.15653	0.15653	0.050	6.18496	20.0	Averaged	
Methylene Chloride	50.0	45.91878	0.45029	0.100	8.16245	20.0	Linear	
Methyl tert-butyl ether	1.58098	1.38909	1.38909	0.100	12.13742	20.0	Averaged	
Carbon Disulfide	1.10319	0.90918	0.90918	0.100	17.58605	20.0	Averaged	
trans-1,2-Dichloroethene	0.42349	0.37613	0.37613	0.100	11.18304	20.0	Averaged	
Vinyl Acetate	1.27609	1.18823	1.18823	0.010	6.88532	20.0	Averaged	
1,1-Dichloroethane	0.76698	0.66248	0.66248	0.200	13.62544	20.0	Averaged	
2-Butanone	0.17902	0.17243	0.17243	0.100	3.68494	20.0	Averaged	
2,2-Dichloropropane	50.0	45.67431	0.55218	0.100	8.65138	20.0	Linear	
cis-1,2-Dichloroethene	0.51249	0.45802	0.45802	0.100	10.62835	20.0	Averaged	
Chloroform	0.85126	0.72992	0.72992	0.200	14.25431	20.0	Averaged	
Bromochloromethane	0.29002	0.25675	0.25675	0.100	11.46948	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430844

Instrument ID voa6.i Injection Date 23-MAR-2023 1108
Lab File ID X032303.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dibromofluoromethane	50.0	48.78854	0.45479	0.100	2.42292	20.0	Linear	
1,1,1-Trichloroethane	0.63658	0.55859	0.55859	0.100	12.25037	20.0	Averaged	
1,1-Dichloropropene	0.35675	0.32364	0.32364	0.100	9.28109	20.0	Averaged	
1,2-Dichloroethane	0.41566	0.39513	0.39513	0.100	4.93831	20.0	Averaged	
Carbon Tetrachloride	0.34151	0.30793	0.30793	0.100	9.83383	20.0	Averaged	
1,2-Dichloroethane-d4	50.0	45.98331	0.49484	0.100	8.03338	20.0	Linear	
Benzene	1.22946	1.12799	1.12799	0.500	8.25328	20.0	Averaged	
Trichloroethene	0.33116	0.31741	0.31741	0.200	4.15116	20.0	Averaged	
Bromodichloromethane	0.43642	0.41370	0.41370	0.200	5.20666	20.0	Averaged	
2-Chloroethylvinyl ether	0.13269	0.13357	0.13357	0.001	-0.66722	20.0	Averaged	
1,2-Dichloropropane	0.33133	0.30534	0.30534	0.100	7.84187	20.0	Averaged	
Dibromomethane	0.21134	0.20922	0.20922	0.100	1.00278	20.0	Averaged	
4-Methyl-2-Pentanone	0.31636	0.31812	0.31812	0.100	-0.55614	20.0	Averaged	
cis-1,3-Dichloropropene	0.55123	0.54838	0.54838	0.200	0.51662	20.0	Averaged	
Toluene-d8	1.23950	1.21024	1.21024	0.100	2.36131	20.0	Averaged	
Toluene	1.31183	1.24865	1.24865	0.400	4.81605	20.0	Averaged	
trans-1,3-Dichloropropene	0.45762	0.47108	0.47108	0.100	-2.94148	20.0	Averaged	
2-Hexanone	0.21713	0.22354	0.22354	0.100	-2.95142	20.0	Averaged	
1,1,2-Trichloroethane	0.28521	0.27277	0.27277	0.100	4.36176	20.0	Averaged	
1,3-Dichloropropane	0.56683	0.55191	0.55191	0.100	2.63204	20.0	Averaged	
Dibromochloromethane	0.40290	0.40109	0.40109	0.100	0.44994	20.0	Averaged	
Tetrachloroethene	0.26297	0.24780	0.24780	0.200	5.76843	20.0	Averaged	
1,2-Dibromoethane	0.35253	0.36904	0.36904	0.100	-4.68384	20.0	Averaged	
1-Chlorohexane	50.0	43.22601	0.20485	0.100	13.54798	20.0	Linear	
Chlorobenzene	0.93747	0.91764	0.91764	0.500	2.11546	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36126	0.36076	0.36076	0.100	0.13949	20.0	Averaged	
Ethylbenzene	0.46137	0.42913	0.42913	0.100	6.98708	20.0	Averaged	
m,p-Xylenes	0.58063	0.55226	0.55226	0.100	4.88513	20.0	Averaged	
o-Xylene	0.58343	0.55738	0.55738	0.300	4.46501	20.0	Averaged	
Styrene	0.96405	0.98652	0.98652	0.300	-2.33060	20.0	Averaged	
Bromoform	0.27859	0.31111	0.31111	0.100	-11.67245	20.0	Averaged	
Isopropylbenzene	1.33626	1.21553	1.21553	0.100	9.03463	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.87122	0.89385	0.89385	0.300	-2.59757	20.0	Averaged	
4-Bromofluorobenzene	50.0	51.40459	0.48662	0.100	-2.80918	20.0	Linear	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430844

Instrument ID voa6.i Injection Date 23-MAR-2023 1108
Lab File ID X032303.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2,3-Trichloropropane	0.65476	0.75914	0.75914	0.100	-15.94117	20.0	Averaged	
n-Propylbenzene	2.77894	2.53527	2.53527	0.100	8.76823	20.0	Averaged	
Bromobenzene	0.80387	0.80078	0.80078	0.100	0.38356	20.0	Averaged	
1,3,5-Trimethylbenzene	2.15544	1.97016	1.97016	0.100	8.59586	20.0	Averaged	
2-Chlorotoluene	1.86840	1.72693	1.72693	0.100	7.57178	20.0	Averaged	
4-Chlorotoluene	2.10589	2.01039	2.01039	0.100	4.53484	20.0	Averaged	
tert-Butylbenzene	1.71676	1.54307	1.54307	0.100	10.11721	20.0	Averaged	
1,2,4-Trimethylbenzene	2.21056	2.07949	2.07949	0.100	5.92896	20.0	Averaged	
sec-Butylbenzene	2.32687	2.02959	2.02959	0.100	12.77579	20.0	Averaged	
p-Isopropyltoluene	2.07629	1.92490	1.92490	0.100	7.29147	20.0	Averaged	
1,3-Dichlorobenzene	1.39033	1.35263	1.35263	0.600	2.71104	20.0	Averaged	
1,4-Dichlorobenzene	1.49428	1.40716	1.40716	0.400	5.83063	20.0	Averaged	
n-Butylbenzene	1.67342	1.55708	1.55708	0.500	6.95248	20.0	Averaged	
1,2-Dichlorobenzene	1.39061	1.39033	1.39033	0.400	0.02015	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	55.64399	0.17912	0.040	-11.28799	20.0	Linear	
1,2,4-Trichlorobenzene	1.01667	1.06665	1.06665	0.100	-4.91643	20.0	Averaged	
Hexachlorobutadiene	50.0	46.81094	0.36905	0.100	6.37811	20.0	Quadratic	
Naphthalene	2.44011	2.76797	2.76797	0.200	-13.43645	20.0	Averaged	
1,2,3-Trichlorobenzene	0.97286	1.03383	1.03383	0.010	-6.26713	20.0	Averaged	
1,2-Dichloroethylene (total	0.46799	0.41707	0.41707	0.200	10.87933	20.0	Averaged	
Xylenes (total)	0.55485	0.54298	0.54298	0.100	2.13872	20.0	Averaged	
Cyclohexane	50.0	40.73092	0.42873	0.100	18.53817	20.0	Quadratic	
Freon TF	50.0	44.93508	0.24783	0.100	10.12984	20.0	Quadratic	
Methylcyclohexane	0.69037	0.69299	0.69299	0.100	-0.38005	20.0	Averaged	
Methyl Acetate	0.28739	0.28790	0.28790	0.100	-0.17612	20.0	Averaged	
Tert-butyl alcohol	0.05236	0.05068	0.05068	0.005	3.20625	20.0	Averaged	
Isopropyl alcohol	0.02798	0.02593	0.02593	0.005	7.32893	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430844

Instrument ID voa6.i Injection Date 23-MAR-2023 1542
Lab File ID X032316.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,4-Dioxane	0.00663	0.00617	0.00617	0.001	7.01975	50.0	Averaged	
1,3-Butadiene	0.33908	0.25726	0.25726	0.100	24.13238	50.0	Averaged	
Methacrylonitrile	0.46082	0.44552	0.44552	0.100	3.32008	50.0	Averaged	
Isobutyl Alcohol	0.06822	0.06537	0.06537	0.005	4.16813	50.0	Averaged	
Acetonitrile	0.04653	0.04171	0.04171	0.005	10.36156	50.0	Averaged	
Allyl Chloride	1.15102	1.01860	1.01860	0.100	11.50447	50.0	Averaged	
Propionitrile	0.07045	0.06890	0.06890	0.010	2.20747	50.0	Averaged	
Tetrahydrofuran	0.08165	0.07683	0.07683	0.001	5.90590	50.0	Averaged	
alpha-Methylstyrene	1.09009	1.01658	1.01658	0.100	6.74345	50.0	Averaged	
Diisopropyl ether	1.55229	1.38474	1.38474	0.100	10.79327	50.0	Averaged	
Epichlorohydrin	0.02852	0.02980	0.02980	0.001	-4.47433	50.0	Averaged	
1,2,3-Trimethylbenzene	2.39781	2.22130	2.22130	0.100	7.36105	50.0	Averaged	
Dichlorodifluoromethane	50.0	41.82348	0.28327	0.100	16.35304	50.0	Quadratic	
Chloromethane	0.45993	0.38605	0.38605	0.100	16.06245	50.0	Averaged	
Vinyl Chloride	0.39382	0.32152	0.32152	0.100	18.35986	50.0	Averaged	
Bromomethane	0.22643	0.20549	0.20549	0.100	9.24962	50.0	Averaged	
Chloroethane	0.27929	0.26020	0.26020	0.100	6.83717	50.0	Averaged	
Trichlorofluoromethane	0.46712	0.40511	0.40511	0.100	13.27504	50.0	Averaged	
Acrolein	100	75.09844	0.02111	0.010	24.90156	50.0	Linear	
Acetone	100	81.38386	0.10769	0.100	18.61614	50.0	Linear	
1,1-Dichloroethene	0.30026	0.25491	0.25491	0.100	15.10246	50.0	Averaged	
Iodomethane	100	104	0.36814	0.100	-3.78970	50.0	Quadratic	
Acrylonitrile	0.16685	0.15530	0.15530	0.050	6.92490	50.0	Averaged	
Methylene Chloride	50.0	49.09298	0.48029	0.100	1.81404	50.0	Linear	
Methyl tert-butyl ether	1.58098	1.46167	1.46167	0.100	7.54649	50.0	Averaged	
Carbon Disulfide	1.10319	0.93300	0.93300	0.100	15.42707	50.0	Averaged	
trans-1,2-Dichloroethene	0.42349	0.38656	0.38656	0.100	8.72104	50.0	Averaged	
Vinyl Acetate	1.27609	1.19376	1.19376	0.010	6.45153	50.0	Averaged	
1,1-Dichloroethane	0.76698	0.68499	0.68499	0.200	10.68964	50.0	Averaged	
2-Butanone	0.17902	0.17025	0.17025	0.100	4.90255	50.0	Averaged	
2,2-Dichloropropane	50.0	43.25208	0.52305	0.100	13.49584	50.0	Linear	
cis-1,2-Dichloroethene	0.51249	0.47716	0.47716	0.100	6.89382	50.0	Averaged	
Chloroform	0.85126	0.74616	0.74616	0.200	12.34647	50.0	Averaged	
Bromochloromethane	0.29002	0.26301	0.26301	0.100	9.31085	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430844

Instrument ID voa6.i Injection Date 23-MAR-2023 1542
Lab File ID X032316.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dibromofluoromethane	50.0	50.86554	0.47385	0.100	-1.73108	50.0	Linear	
1,1,1-Trichloroethane	0.63658	0.55650	0.55650	0.100	12.57950	50.0	Averaged	
1,1-Dichloropropene	0.35675	0.30310	0.30310	0.100	15.03839	50.0	Averaged	
1,2-Dichloroethane	0.41566	0.38508	0.38508	0.100	7.35631	50.0	Averaged	
Carbon Tetrachloride	0.34151	0.28799	0.28799	0.100	15.67250	50.0	Averaged	
1,2-Dichloroethane-d4	50.0	47.43526	0.51083	0.100	5.12948	50.0	Linear	
Benzene	1.22946	1.11724	1.11724	0.500	9.12761	50.0	Averaged	
Trichloroethene	0.33116	0.31377	0.31377	0.200	5.25065	50.0	Averaged	
Bromodichloromethane	0.43642	0.40934	0.40934	0.200	6.20625	50.0	Averaged	
2-Chloroethylvinyl ether	0.13269	0.12294	0.12294	0.001	7.34564	50.0	Averaged	
1,2-Dichloropropane	0.33133	0.30332	0.30332	0.100	8.45124	50.0	Averaged	
Dibromomethane	0.21134	0.20530	0.20530	0.100	2.85732	50.0	Averaged	
4-Methyl-2-Pentanone	0.31636	0.31585	0.31585	0.100	0.15939	50.0	Averaged	
cis-1,3-Dichloropropene	0.55123	0.52466	0.52466	0.200	4.82066	50.0	Averaged	
Toluene-d8	1.23950	1.26469	1.26469	0.100	-2.03188	50.0	Averaged	
Toluene	1.31183	1.25585	1.25585	0.400	4.26712	50.0	Averaged	
trans-1,3-Dichloropropene	0.45762	0.44399	0.44399	0.100	2.97912	50.0	Averaged	
2-Hexanone	0.21713	0.21043	0.21043	0.100	3.08660	50.0	Averaged	
1,1,2-Trichloroethane	0.28521	0.27443	0.27443	0.100	3.78009	50.0	Averaged	
1,3-Dichloropropane	0.56683	0.56338	0.56338	0.100	0.60855	50.0	Averaged	
Dibromochloromethane	0.40290	0.40475	0.40475	0.100	-0.45806	50.0	Averaged	
Tetrachloroethene	0.26297	0.24249	0.24249	0.200	7.79039	50.0	Averaged	
1,2-Dibromoethane	0.35253	0.36811	0.36811	0.100	-4.42086	50.0	Averaged	
1-Chlorohexane	50.0	38.31589	0.18031	0.100	23.36823	50.0	Linear	
Chlorobenzene	0.93747	0.89343	0.89343	0.500	4.69813	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36126	0.35375	0.35375	0.100	2.08002	50.0	Averaged	
Ethylbenzene	0.46137	0.41576	0.41576	0.100	9.88453	50.0	Averaged	
m,p-Xylenes	0.58063	0.53078	0.53078	0.100	8.58503	50.0	Averaged	
o-Xylene	0.58343	0.53886	0.53886	0.300	7.63930	50.0	Averaged	
Styrene	0.96405	0.96243	0.96243	0.300	0.16787	50.0	Averaged	
Bromoform	0.27859	0.30330	0.30330	0.100	-8.87137	50.0	Averaged	
Isopropylbenzene	1.33626	1.17539	1.17539	0.100	12.03836	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.87122	0.84890	0.84890	0.300	2.56247	50.0	Averaged	
4-Bromofluorobenzene	50.0	52.02366	0.49246	0.100	-4.04733	50.0	Linear	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS23031294

RunID VOA6_430844

Instrument ID voa6.i Injection Date 23-MAR-2023 1542
Lab File ID X032316.D ICAL Date(s) 17-MAR-2023 17-MAR-2023
Analysis Type WATER ICAL Times 1129 1458
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
1,2,3-Trichloropropane	0.65476	0.70301	0.70301	0.100	-7.36883	50.0	Averaged	
n-Propylbenzene	2.77894	2.40494	2.40494	0.100	13.45846	50.0	Averaged	
Bromobenzene	0.80387	0.78292	0.78292	0.100	2.60573	50.0	Averaged	
1,3,5-Trimethylbenzene	2.15544	1.91087	1.91087	0.100	11.34657	50.0	Averaged	
2-Chlorotoluene	1.86840	1.65888	1.65888	0.100	11.21397	50.0	Averaged	
4-Chlorotoluene	2.10589	1.91432	1.91432	0.100	9.09694	50.0	Averaged	
tert-Butylbenzene	1.71676	1.49679	1.49679	0.100	12.81309	50.0	Averaged	
1,2,4-Trimethylbenzene	2.21056	2.04071	2.04071	0.100	7.68324	50.0	Averaged	
sec-Butylbenzene	2.32687	1.93509	1.93509	0.100	16.83731	50.0	Averaged	
p-Isopropyltoluene	2.07629	1.85944	1.85944	0.100	10.44428	50.0	Averaged	
1,3-Dichlorobenzene	1.39033	1.30842	1.30842	0.600	5.89123	50.0	Averaged	
1,4-Dichlorobenzene	1.49428	1.36211	1.36211	0.400	8.84521	50.0	Averaged	
n-Butylbenzene	1.67342	1.45055	1.45055	0.500	13.31853	50.0	Averaged	
1,2-Dichlorobenzene	1.39061	1.34449	1.34449	0.400	3.31640	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	51.58149	0.16568	0.040	-3.16297	50.0	Linear	
1,2,4-Trichlorobenzene	1.01667	1.00199	1.00199	0.100	1.44389	50.0	Averaged	
Hexachlorobutadiene	50.0	41.54602	0.32387	0.100	16.90797	50.0	Quadratic	
Naphthalene	2.44011	2.54092	2.54092	0.200	-4.13159	50.0	Averaged	
1,2,3-Trichlorobenzene	0.97286	0.97121	0.97121	0.010	0.17002	50.0	Averaged	
1,2-Dichloroethylene (total	0.46799	0.43186	0.43186	0.200	7.72056	50.0	Averaged	
Xylenes (total)	0.55485	0.50079	0.50079	0.100	9.74304	50.0	Averaged	
Cyclohexane	50.0	40.32190	0.42408	0.100	19.35621	50.0	Quadratic	
Freon TF	50.0	41.00338	0.22477	0.100	17.99324	50.0	Quadratic	
Methylcyclohexane	0.69037	0.67250	0.67250	0.100	2.58806	50.0	Averaged	
Methyl Acetate	0.28739	0.28454	0.28454	0.100	0.99030	50.0	Averaged	
Tert-butyl alcohol	0.05236	0.05051	0.05051	0.005	3.52691	50.0	Averaged	
Isopropyl alcohol	0.02798	0.02666	0.02666	0.005	4.71471	50.0	Averaged	

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Form 8

Internal Standard Area and RT Summary

Volatiles by EPA 8260

Workorder

HS23031294

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
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Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

RunID
VOA6_430844

		IS1		IS2		IS3		IS4	
Sample ID	File ID	Area	RT	Area	RT	Area	RT	Area	RT
12-HOUR STD (CCV)	X032303	302512 #	4.18 #	446383 #	4.97 #	437528 #	7.67 #	247503 #	9.66 #
CCB	X032304	441641	4.18	620752	4.97	556662	7.67	284770	9.66
VLCSW-230323	X032305	326763	4.18	492457	4.97	462766	7.67	255337	9.66
VBLKW-230323	X032307	450970	4.18	625633	4.97	544501	7.67	282886	9.66
HS23031294-02	X032310	456748	4.18	639543	4.97	594149	7.67	319525	9.66
HS23031294-01	X032312	441728	4.18	623090	4.97	537351	7.67	285256	9.66
HS23031294-01	X032313	441107	4.18	609256	4.97	531975	7.67	276179	9.66
ZZZZZZMS	X032314	444118	4.18	618130	4.97	541471	7.67	293386	9.66
ZZZZZZMSD	X032315	465682	4.18	646301	4.97	577013	7.67	316378	9.66
CCV-END	X032316	287924	4.18	445431	4.97	418139	7.67	236156	9.66

IS1 - Pentafluorobenzene IS2 - 1,4-Difluorobenzene IS3 - Chlorobenzene-d5 IS4 - 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention Time IS - Internal Standard

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

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Analysis Run Log

Volatiles by EPA 8260

Workorder

HS23031294

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

RunID
VOA6_430425

Run ID VOA6_430425 **Start Date** 03/17/23 **EndDate** 03/17/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
11:08	BFB	TUNE	BFB	X031701.D	03/17/23	1
11:29	VSTD000.25	ICAL1	VSTD000.25	X031702.D	03/17/23	1
12:11	VSTD000.5	ICAL2	VSTD000.5	X031703.D	03/17/23	1
12:32	VSTD001	ICAL3	VSTD001	X031704.D	03/17/23	1
12:53	VSTD002	ICAL4	VSTD002	X031705.D	03/17/23	1
13:14	VSTD005	ICAL5	VSTD005	X031706.D	03/17/23	1
13:35	VSTD020	ICAL6	VSTD020	X031707.D	03/17/23	1
13:55	VSTD050	ICAL7	VSTD050	X031708.D	03/17/23	1
14:16	VSTD100	ICAL8	VSTD100	X031709.D	03/17/23	1
14:37	VSTD150	ICAL9	VSTD150	X031710.D	03/17/23	1
14:58	VSTD200	ICAL	VSTD200	X031711.D	03/17/23	1
15:40	CCV	ICV	CCV	X031713.D	03/17/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

RunID
VOA6_430844

Run ID VOA6_430844 **Start Date** 03/23/23 **EndDate** 03/23/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:26	BFB	TUNE	BFB	X032301.D	03/23/23	1
11:08	CCV	CCV	CCV	X032303.D	03/23/23	1
11:29	CCB	CCB	CCB	X032304.D	03/23/23	1
11:50	VLCSW-230323	LCS	VLCSW-230323	X032305.D	03/23/23	1
12:33	VBLKW-230323	MBLK	VBLKW-230323	X032307.D	03/23/23	1
12:54	ZZZZZZZZZZ	SAMP	HS23031275-01	X032308.D	03/23/23	1
13:15	ZZZZZZZZZZ	SAMP	HS23031291-03	X032309.D	03/23/23	1
13:36	Trip Blank	SAMP	HS23031294-02	X032310.D	03/23/23	1
13:57	ZZZZZZZZZZ	SAMP	HS23031291-01	X032311.D	03/23/23	1
14:18	LH18/24-SP140_032123	SAMP	HS23031294-01	X032312.D	03/23/23	5
14:39	LH18/24-SP140_032123	SAMP	HS23031294-01	X032313.D	03/23/23	50
15:00	ZZZZZZMS	MS	HS23031291-01MS	X032314.D	03/23/23	1
15:21	ZZZZZZMSD	MSD	HS23031291-01MSD	X032315.D	03/23/23	1
15:42	CCV-END	CCV_END	CCV-END	X032316.D	03/23/23	1

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right solutions.
right partner.

Raw Data VOA6 430425

Volatiles by EPA 8260

Workorder

HS23031294

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031701.D Page 1
Report Date: 17-Mar-2023 12:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031701.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 17-MAR-2023 11:08
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.691	8.889	(0.000)	95	77928			0.00- 100.00	100.00
8.691	8.889	(0.000)	50	11882			15.00- 40.00	15.25
8.691	8.889	(0.000)	75	34576			30.00- 60.00	44.37
8.691	8.889	(0.000)	96	5353			5.00- 9.00	6.87
8.691	8.889	(0.000)	173	519			0.00- 2.00	0.81
8.691	8.889	(0.000)	174	64408			50.00- 0.00	82.65
8.691	8.889	(0.000)	175	4678			5.00- 9.00	7.26
8.691	8.889	(0.000)	176	63808			95.00- 101.00	99.07
8.691	8.889	(0.000)	177	3978			5.00- 9.00	6.23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.25
75	30.00 - 60.00% of mass 95	44.37
96	5.00 - 9.00% of mass 95	6.87
173	Less than 2.00% of mass 174	0.67 (0.81)
174	Greater than 50.00% of mass 95	82.65
175	5.00 - 9.00% of mass 174	6.00 (7.26)
176	95.00 - 101.00% of mass 174	81.88 (99.07)
177	5.00 - 9.00% of mass 176	5.10 (6.23)

Data File: X031701.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	483	64.20	161	93.00	2513	139.80	71
37.00	2843	64.80	68	94.00	7408	140.80	587
38.00	2608	66.90	121	95.00	77928	141.80	95
38.90	991	68.00	5827	96.00	5353	142.90	519
40.00	1074	69.00	6800	97.00	335	144.90	63
42.80	102	70.00	597	103.80	383	145.80	135
44.00	1173	72.10	324	104.80	95	147.80	183
45.00	711	72.90	2604	105.80	183	153.80	69
47.20	912	74.00	11145	107.10	110	154.70	87
47.80	316	75.00	34576	112.60	99	157.00	123
49.00	2575	76.10	2966	114.90	107	159.00	52
50.10	11882	76.90	658	116.00	188	160.90	61
51.00	3681	78.10	369	117.00	484	172.10	63
51.90	205	79.00	1540	117.90	236	173.00	519
55.00	261	79.90	570	119.00	361	173.90	64408
56.00	1067	80.90	1492	127.90	189	174.90	4678
57.10	1577	81.90	352	128.80	166	175.90	63808
60.00	520	86.90	3159	130.10	197	177.00	3978
61.00	2432	88.00	3204	130.70	63	177.80	61
62.10	3141	90.90	299	134.80	57	186.00	56
63.00	1965	91.90	2149	136.90	119		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031701.D

Date : 17-MAR-2023 11:08

Client ID: BFB

Instrument: voa6.i

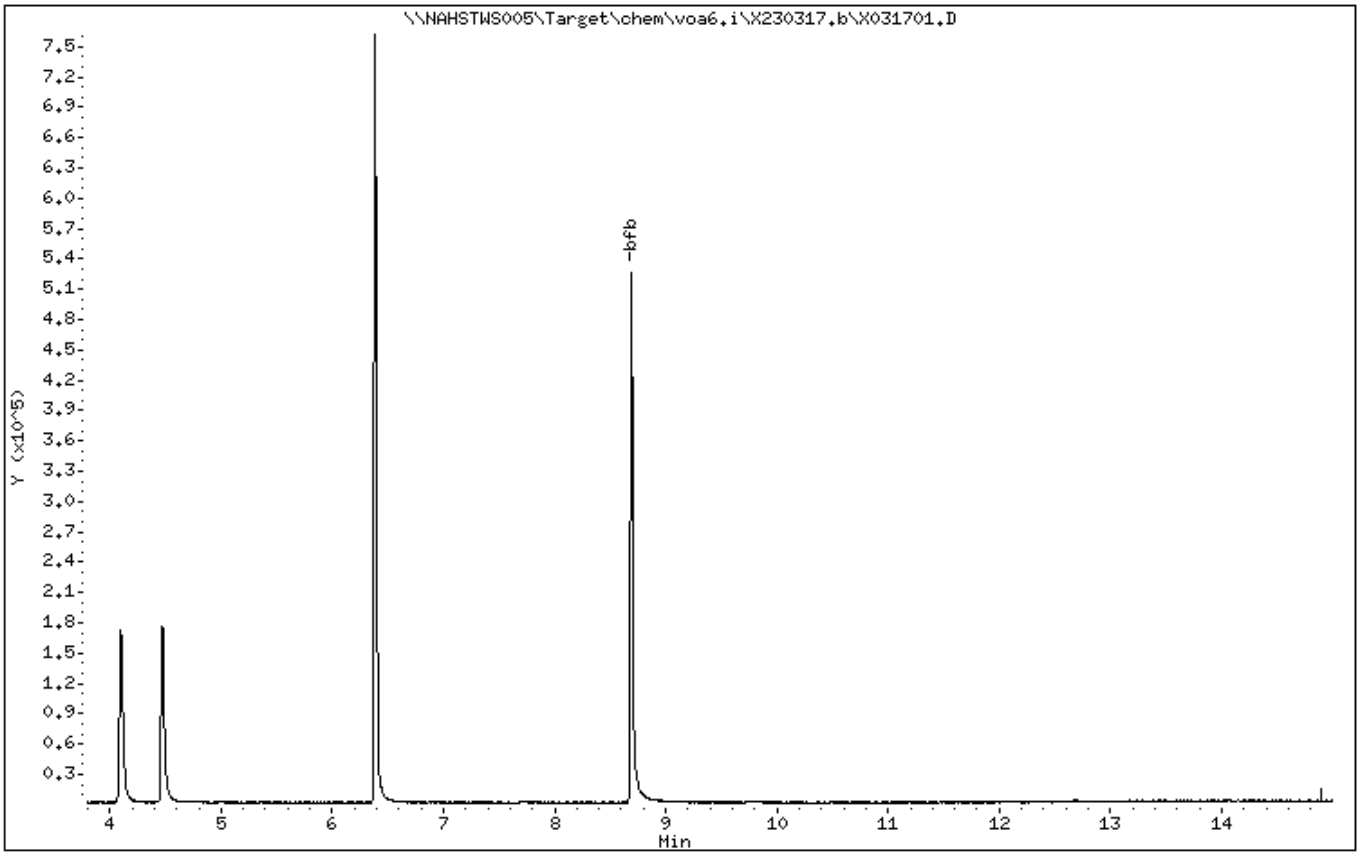
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031701.D

Date : 17-MAR-2023 11:08

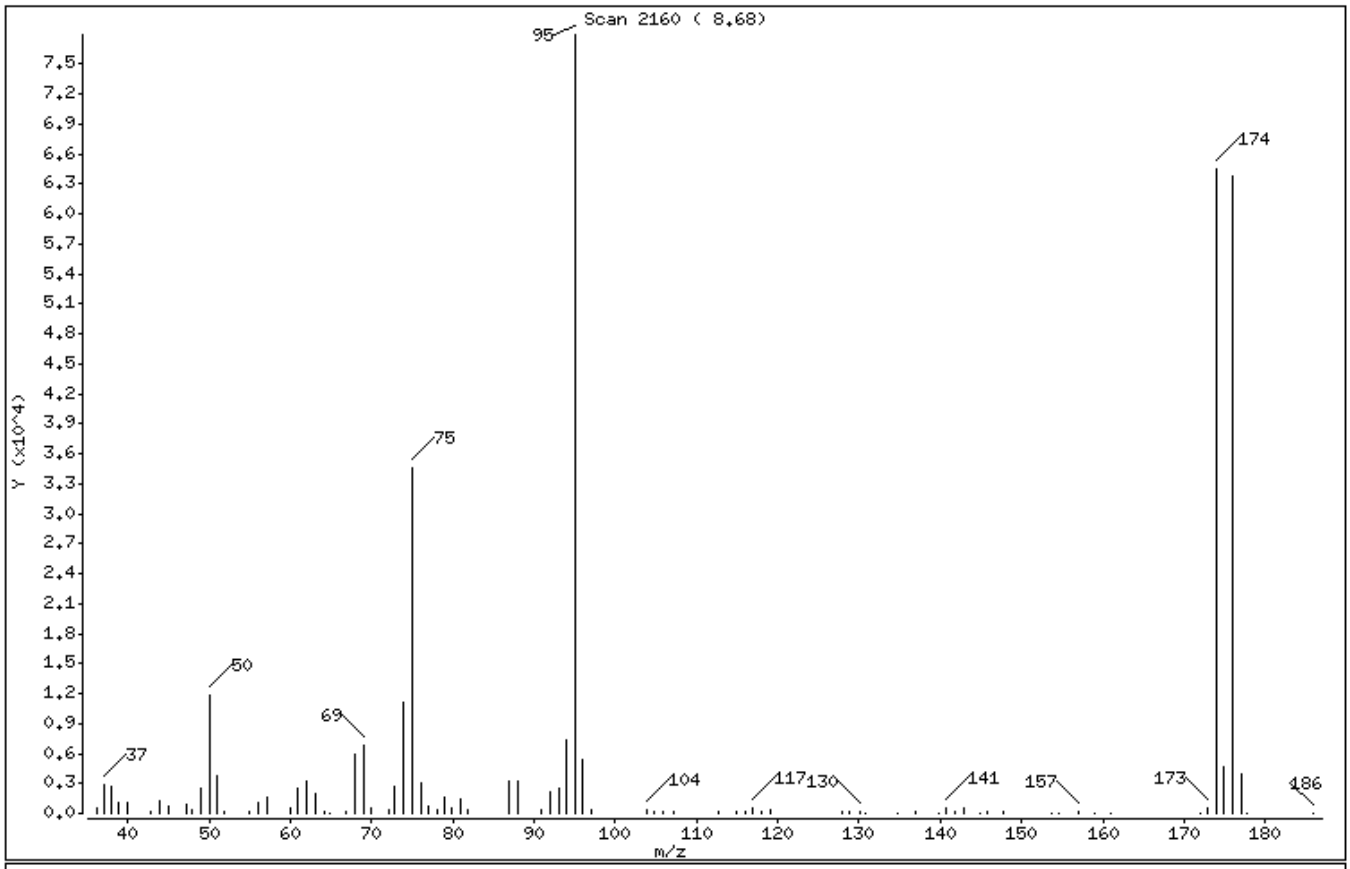
Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.25
75	30.00 - 60.00% of mass 95	44.37
96	5.00 - 9.00% of mass 95	6.87
173	Less than 2.00% of mass 174	0.67 (0.81)
174	Greater than 50.00% of mass 95	82.65
175	5.00 - 9.00% of mass 174	6.00 (7.26)
176	95.00 - 101.00% of mass 174	81.88 (99.07)
177	5.00 - 9.00% of mass 176	5.10 (6.23)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031701.D

Date : 17-MAR-2023 11:08

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: X031701.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	483	64.20	161	93.00	2513	139.80	71
37.00	2843	64.80	68	94.00	7408	140.80	587
38.00	2608	66.90	121	95.00	77928	141.80	95
38.90	991	68.00	5827	96.00	5353	142.90	519
40.00	1074	69.00	6800	97.00	335	144.90	63
42.80	102	70.00	597	103.80	383	145.80	135
44.00	1173	72.10	324	104.80	95	147.80	183
45.00	711	72.90	2604	105.80	183	153.80	69
47.20	912	74.00	11145	107.10	110	154.70	87
47.80	316	75.00	34576	112.60	99	157.00	123
49.00	2575	76.10	2966	114.90	107	159.00	52
50.10	11882	76.90	658	116.00	188	160.90	61
51.00	3681	78.10	369	117.00	484	172.10	63
51.90	205	79.00	1540	117.90	236	173.00	519
55.00	261	79.90	570	119.00	361	173.90	64408
56.00	1067	80.90	1492	127.90	189	174.90	4678
57.10	1577	81.90	352	128.80	166	175.90	63808
60.00	520	86.90	3159	130.10	197	177.00	3978
61.00	2432	88.00	3204	130.70	63	177.80	61
62.10	3141	90.90	299	134.80	57	186.00	56
63.00	1965	91.90	2149	136.90	119		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031702.D Page 1
Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031702.D
Lab Smp Id: VSTD000.25 Client Smp ID: VSTD000.25
Inj Date : 17-MAR-2023 11:29
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.25;VSTD000.25;1;1;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 14:58 Cal File: X031711.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

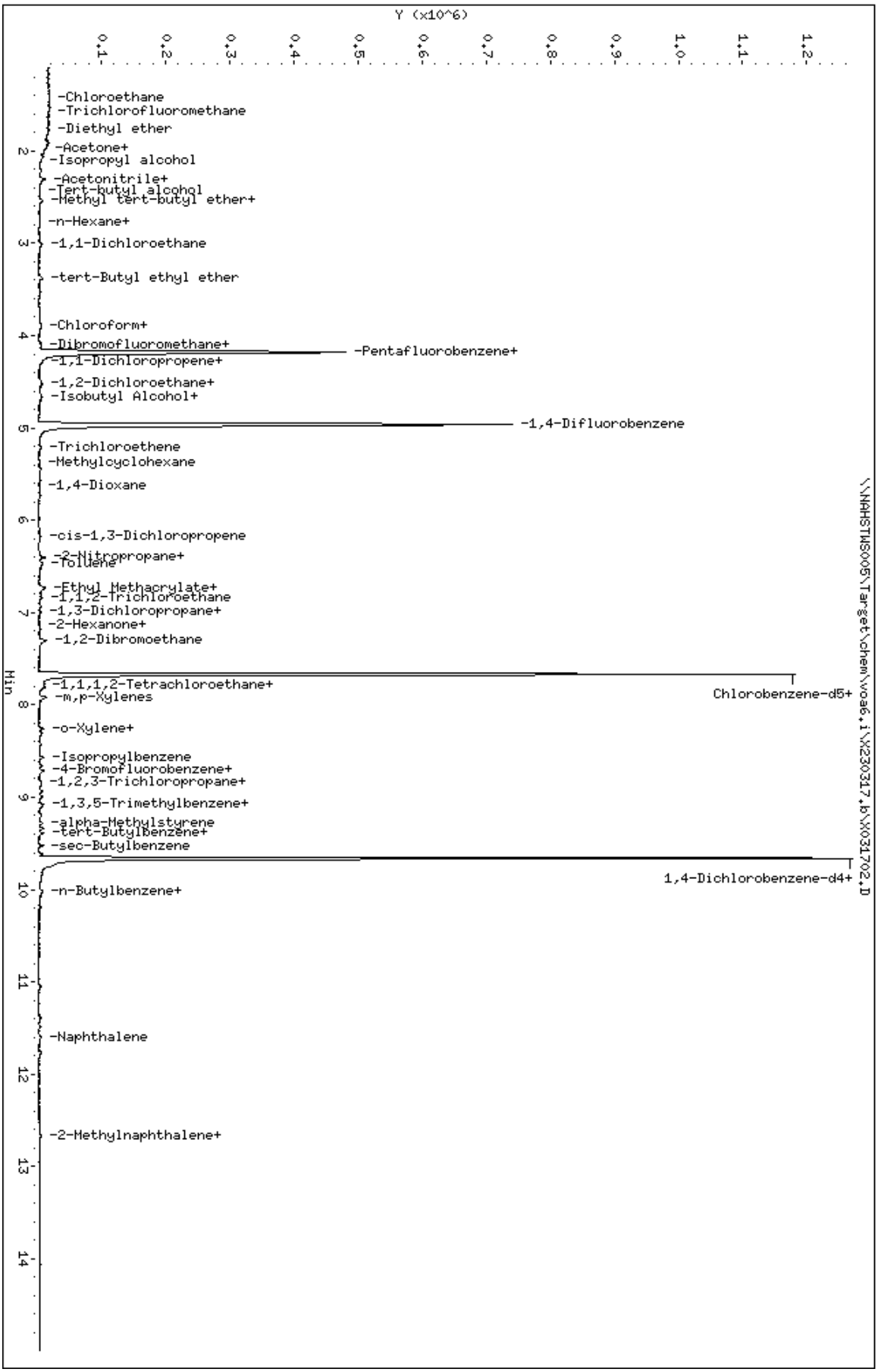
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.177	4.177	(1.000)	400786	50.0000	
	7 Chloroethane	64	1.422	1.422	(0.341)	10096	0.25000	4.50
	13 Acetonitrile	39	2.209	2.209	(0.529)	1322	2.50000	3.54(a)
	15 Iodomethane	142	2.018	2.018	(0.483)	690	0.50000	9.50(T)
$	35 1,2-Dichloroethane-d4	65	4.485	4.485	(1.074)	2180	0.25000	1.54(T)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	631509	50.0000	
	43 2-Nitropropane	43	6.348	6.348	(1.520)	1735	0.25000	1.37(a)
	45 4-Methyl-2-Pentanone	43	6.348	6.348	(0.828)	1735	0.50000	0.45(a)
	46 cis-1,3-Dichloropropene	75	6.172	6.172	(1.243)	1780	0.25000	0.25(a)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	600997	50.0000	
$	48 Toluene-d8	98	6.400	6.400	(0.835)	7389	0.25000	0.49(a)
	49 Ethyl Methacrylate	69	6.734	6.734	(1.356)	2434	0.25000	0.52(a)
	50 Toluene	91	6.460	6.460	(0.843)	4871	0.25000	0.30(a)
	52 2-Hexanone	43	7.143	7.143	(0.932)	1044	0.50000	0.40(Ta)
	53 1,1,2-Trichloroethane	83	6.846	6.846	(0.893)	1065	0.25000	0.31(a)
	54 1,3-Dichloropropane	76	6.993	6.993	(0.912)	1955	0.25000	0.28(a)
	55 Dibromochloromethane	129	7.184	7.184	(0.937)	1479	0.25000	0.30(a)
	56 Tetrachloroethene	164	6.933	6.933	(0.904)	944	0.25000	0.29(a)
	57 1,2-Dibromoethane	107	7.274	7.274	(0.949)	1129	0.25000	0.26(a)
	58 1-Chlorohexane	55	7.705	7.705	(1.552)	969	0.25000	2.54(a)

59 Chlorobenzene	112	7.694	7.694 (1.003)	3426	0.25000	0.30(a)
60 1,1,1,2-Tetrachloroethane	131	7.780	7.780 (1.015)	1296	0.25000	0.29(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	61 Ethylbenzene	106	7.814	7.814	(1.019)	1903	0.25000	0.34(a)
	62 m,p-Xylenes	106	7.915	7.915	(1.032)	3668	0.50000	0.52(a)
	63 o-Xylene	106	8.256	8.256	(1.077)	1806	0.25000	0.25(a)
	64 Styrene	104	8.301	8.301	(1.083)	2186	0.25000	0.18(a)
	67 Isopropylbenzene	105	8.571	8.571	(1.118)	4459	0.25000	0.27(a)
$	69 4-Bromofluorobenzene	95	8.710	8.710	(1.136)	3416	0.25000	0.42(a)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	324194	50.0000	
	71 1,2,3-Trichloropropane	75	8.882	8.882	(0.919)	1716	0.25000	0.40(a)
	73 n-Propylbenzene	91	8.931	8.931	(0.924)	4915	0.25000	0.27(a)
	74 Bromobenzene	156	8.837	8.837	(0.915)	1467	0.25000	0.28(a)
	75 1,3,5-Trimethylbenzene	105	9.081	9.081	(0.940)	4272	0.25000	0.30(a)
	76 2-Chlorotoluene	91	8.994	8.994	(0.931)	4181	0.25000	0.34(a)
	77 4-Chlorotoluene	91	9.103	9.103	(0.942)	3867	0.25000	0.28(a)
	78 tert-Butylbenzene	119	9.339	9.339	(0.967)	3339	0.25000	0.29(a)
	79 1,2,4-Trimethylbenzene	105	9.392	9.392	(0.972)	4230	0.25000	0.29(a)
	81 sec-Butylbenzene	105	9.527	9.527	(0.986)	4392	0.25000	0.29(a)
	82 p-Isopropyltoluene	119	9.654	9.654	(0.999)	3331	0.25000	0.24(a)
	83 1,3-Dichlorobenzene	146	9.617	9.617	(0.995)	2361	0.25000	0.26(a)
	84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	3432	0.25000	0.35(a)
	88 1,2-Dichlorobenzene	146	10.014	10.014	(1.036)	2745	0.25000	0.30(a)
	92 Naphthalene	128	11.600	11.600	(1.201)	2752	0.25000	0.17(a)
	141 Cyclohexane	56	4.177	4.177	(1.000)	5635	0.25000	3.07(a)
	135 1,4-Dioxane	88	5.643	5.643	(1.351)	279	5.00000	5.24(aM)
	136 n-Hexane	57	2.772	2.772	(0.664)	792	0.25000	0.68(Ta)
	139 Diethyl ether	59	1.763	1.763	(0.422)	936	0.25000	0.34(Ta)
	148 Tert-butyl alcohol	59	2.438	2.438	(0.584)	2549	5.00000	6.07
	149 Isopropyl alcohol	45	2.104	2.104	(0.504)	1722	5.00000	7.67(T)
	160 2-Methylnaphthalene	142	12.668	12.668	(1.311)	1720	0.25000	0.21(a)
	166 1,2,3-Trimethylbenzene	105	9.737	9.737	(1.008)	4717	0.25000	0.30(a)
	174 tert-Amyl methyl ether	73	4.665	4.665	(1.117)	5282	0.25000	0.36(a)
	175 tert-Butyl ethyl ether	59	3.386	3.386	(0.811)	4051	0.25000	0.31(a)
	176 tert-Amyl alcohol	59	4.639	4.639	(1.110)	1680	5.00000	4.89(a)
	151 4-Methyl-2-pentanol	45	6.727	6.727	(1.355)	10783	5.00000	11.69
	180 1-Methylnaphthalene	142	12.668	12.668	(1.311)	1720	0.25000	(a)
	140 1,3-Butadiene	54	1.164	1.164	(0.279)	737	0.25000	0.27(a)
M	94 1,2-Dichloroethylene (total)	96				1068	0.50000	(a)
	134 Cyclohexanone	55	8.657	8.657	(0.896)	2390	5.00000	12.41(a)
	150 Allyl alcohol	57	2.772	2.772	(0.664)	792	5.00000	13.03

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6,i\X230317,b\X031702.D
Date : 17-MAR-2023 11:29
Client ID: VSTD000,25
Sample Info: VSTD000,25;VSTD000,25;1;1;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: PC
Column diameter: 0.18

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Inj Date : 17-MAR-2023 11:29
InstruID : voa6.i
LabSampID : VSTD000.25

1,4-Dioxane ()

Reason Code:

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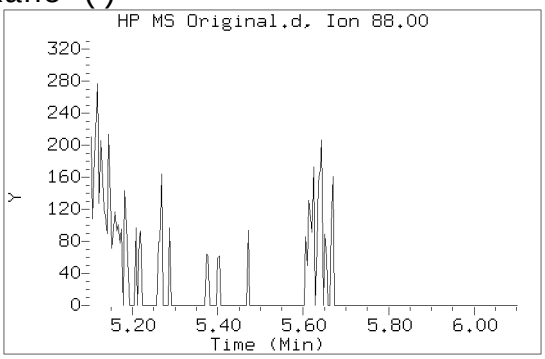

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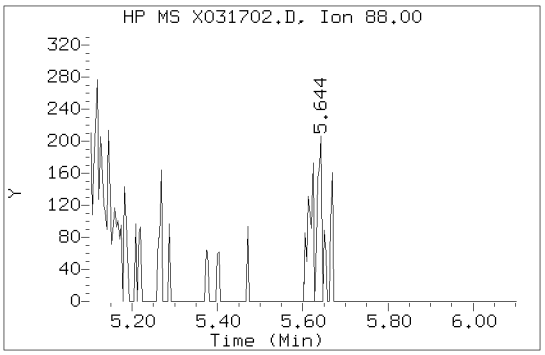

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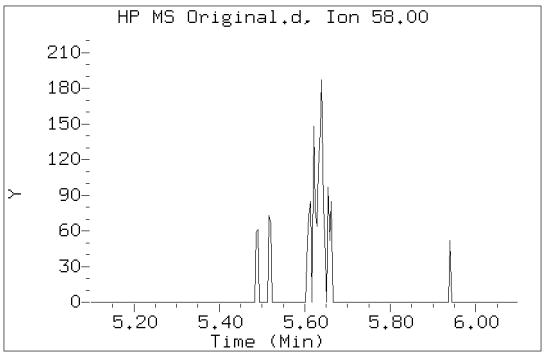

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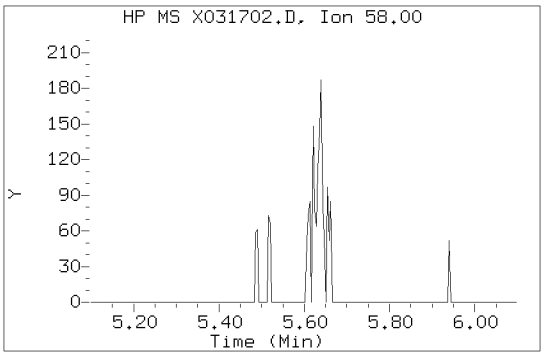

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Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
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Inj Date : 17-MAR-2023 12:11
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.5;VSTD000.5;1;2;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 11:29 Cal File: X031702.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.181	4.181	(1.000)	367798	50.0000	
2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	1644	0.50000	1.25(M)
3	Chloromethane	50	1.077	1.077	(0.258)	1945	0.50000	0.57(M)
4	Propionitrile	54	3.705	3.705	(0.886)	2634	5.00000	5.08(aM)
5	Vinyl Chloride	62	1.141	1.141	(0.273)	1572	0.50000	0.54(M)
6	Bromomethane	94	1.340	1.340	(0.321)	833	0.50000	0.50(M)
7	Chloroethane	64	1.400	1.400	(0.335)	1227	0.50000	0.59(TM)
8	Trichlorofluoromethane	101	1.561	1.561	(0.373)	1920	0.50000	0.55(M)
9	Acrolein	56	1.441	1.441	(0.345)	179	1.00000	3.94(aM)
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	1244	0.50000	0.56(M)
12	Isobutyl Alcohol	43	4.684	4.684	(1.120)	3536	10.0000	7.04(TaM)
13	Acetonitrile	39	2.202	2.202	(0.527)	1651	5.00000	4.82(a)
14	Allyl Chloride	41	2.209	2.209	(0.528)	4541	0.50000	0.53(a)
15	Iodomethane	142	2.033	2.033	(0.486)	1037	1.00000	9.64(TM)
18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	6887	0.50000	0.59
19	Carbon Disulfide	76	2.067	2.067	(0.494)	9182	1.00000	1.13(M)
20	trans-1,2-Dichloroethene	96	2.543	2.543	(0.608)	1766	0.50000	0.56
21	Vinyl Acetate	43	3.038	3.038	(0.727)	8761	1.00000	0.93(aM)
22	1,1-Dichloroethane	63	2.918	2.918	(0.698)	2973	0.50000	0.52(TM)
23	Chloroprene	53	1.767	1.767	(0.423)	581	0.50000	0.57(aM)

24 2-Butanone	43	3.671	3.671 (0.878)	1066	1.00000	0.80(aM)
25 Methacrylonitrile	41	3.863	3.863 (0.924)	1764	0.50000	0.52(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	27 cis-1,2-Dichloroethene	96	3.533	3.533	(0.845)	2082	0.50000	0.55(M)
	28 Chloroform	83	3.911	3.911	(0.935)	3918	0.50000	0.62
	29 Bromochloromethane	128	3.795	3.795	(0.908)	1278	0.50000	0.59
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.977)	2607	0.50000	0.55(M)
	32 1,1-Dichloropropene	75	4.290	4.290	(0.864)	2227	0.50000	0.51(M)
	33 1,2-Dichloroethane	62	4.586	4.586	(0.924)	2984	0.50000	0.59
	34 Carbon Tetrachloride	117	4.267	4.267	(0.860)	2318	0.50000	0.56(M)
$	35 1,2-Dichloroethane-d4	65	4.489	4.489	(1.074)	2080	0.50000	1.56(TM)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	601883	50.0000	
	37 Benzene	78	4.522	4.522	(0.911)	8236	0.50000	0.55(M)
	38 Trichloroethene	130	5.212	5.212	(1.050)	2257	0.50000	0.56(aM)
	39 Bromodichloromethane	83	5.733	5.733	(1.155)	3021	0.50000	0.57(aM)
	40 Methyl Methacrylate	41	5.639	5.639	(1.349)	1737	0.50000	0.52(aM)
	41 2-Chloroethylvinyl ether	63	6.082	6.082	(1.225)	1463	1.00000	0.91(aM)
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	2264	0.50000	0.56(aM)
	43 2-Nitropropane	43	5.984	5.984	(1.431)	573	0.50000	0.49(aMH)
	44 Dibromomethane	93	5.565	5.565	(1.121)	1289	0.50000	0.50(a)
	45 4-Methyl-2-Pentanone	43	6.348	6.348	(0.828)	3685	1.00000	1.01(a)
	46 cis-1,3-Dichloropropene	75	6.164	6.164	(1.242)	3719	0.50000	0.56(a)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	574583	50.0000	
$	48 Toluene-d8	98	6.400	6.400	(0.835)	7591	0.50000	0.53(aM)
	49 Ethyl Methacrylate	69	6.742	6.742	(1.358)	2259	0.50000	0.50(aM)
	50 Toluene	91	6.460	6.460	(0.843)	7835	0.50000	0.51(aM)
	51 trans-1,3-Dichloropropene	75	6.700	6.700	(1.350)	2740	0.50000	0.49(aM)
	52 2-Hexanone	43	7.124	7.124	(0.929)	2519	1.00000	1.00(TaM)
	53 1,1,2-Trichloroethane	83	6.850	6.850	(0.893)	1853	0.50000	0.56(a)
	54 1,3-Dichloropropane	76	6.989	6.989	(0.912)	3374	0.50000	0.51(aM)
	55 Dibromochloromethane	129	7.184	7.184	(0.937)	2629	0.50000	0.56(a)
	56 Tetrachloroethene	164	6.937	6.937	(0.905)	1777	0.50000	0.58(aM)
	57 1,2-Dibromoethane	107	7.270	7.270	(0.948)	2073	0.50000	0.51(a)
	58 1-Chlorohexane	55	7.705	7.705	(1.552)	1701	0.50000	2.80(aM)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	5868	0.50000	0.54(aM)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	2474	0.50000	0.59(a)
	61 Ethylbenzene	106	7.802	7.802	(1.018)	3139	0.50000	0.59(a)
	62 m,p-Xylenes	106	7.911	7.911	(1.032)	7504	1.00000	1.12(a)
	63 o-Xylene	106	8.252	8.252	(1.076)	3921	0.50000	0.58(a)
	64 Styrene	104	8.294	8.294	(1.082)	5629	0.50000	0.50(aM)
	66 Bromoform	173	8.417	8.417	(1.098)	1781	0.50000	0.55(aM)
	67 Isopropylbenzene	105	8.567	8.567	(1.117)	8191	0.50000	0.53(aM)
	68 1,1,2,2-Tetrachloroethane	83	8.848	8.848	(0.916)	3141	0.50000	0.57(aM)
$	69 4-Bromofluorobenzene	95	8.706	8.706	(1.135)	3243	0.50000	0.41(aM)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	314997	50.0000	
	71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	2211	0.50000	0.53(aM)
	72 trans-1,4-Dichloro-2-butene	53	8.931	8.931	(1.165)	541	0.50000	0.94(aM)
	73 n-Propylbenzene	91	8.923	8.923	(0.924)	9679	0.50000	0.55(a)
	74 Bromobenzene	156	8.822	8.822	(0.913)	2604	0.50000	0.51(aM)
	75 1,3,5-Trimethylbenzene	105	9.077	9.077	(0.939)	7357	0.50000	0.54(aM)
	76 2-Chlorotoluene	91	8.983	8.983	(0.930)	5959	0.50000	0.50(aM)
	77 4-Chlorotoluene	91	9.092	9.092	(0.941)	6930	0.50000	0.52(aM)
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	5974	0.50000	0.55(aM)
	79 1,2,4-Trimethylbenzene	105	9.388	9.388	(0.972)	8022	0.50000	0.57(a)
	81 sec-Butylbenzene	105	9.523	9.523	(0.986)	8361	0.50000	0.57(aM)

82 p-Isopropyltoluene	119	9.654	9.654 (0.999)	6920	0.50000	0.52(aM)
83 1,3-Dichlorobenzene	146	9.613	9.613 (0.995)	4872	0.50000	0.55(a)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D Page 3
Report Date: 30-Mar-2023 12:41

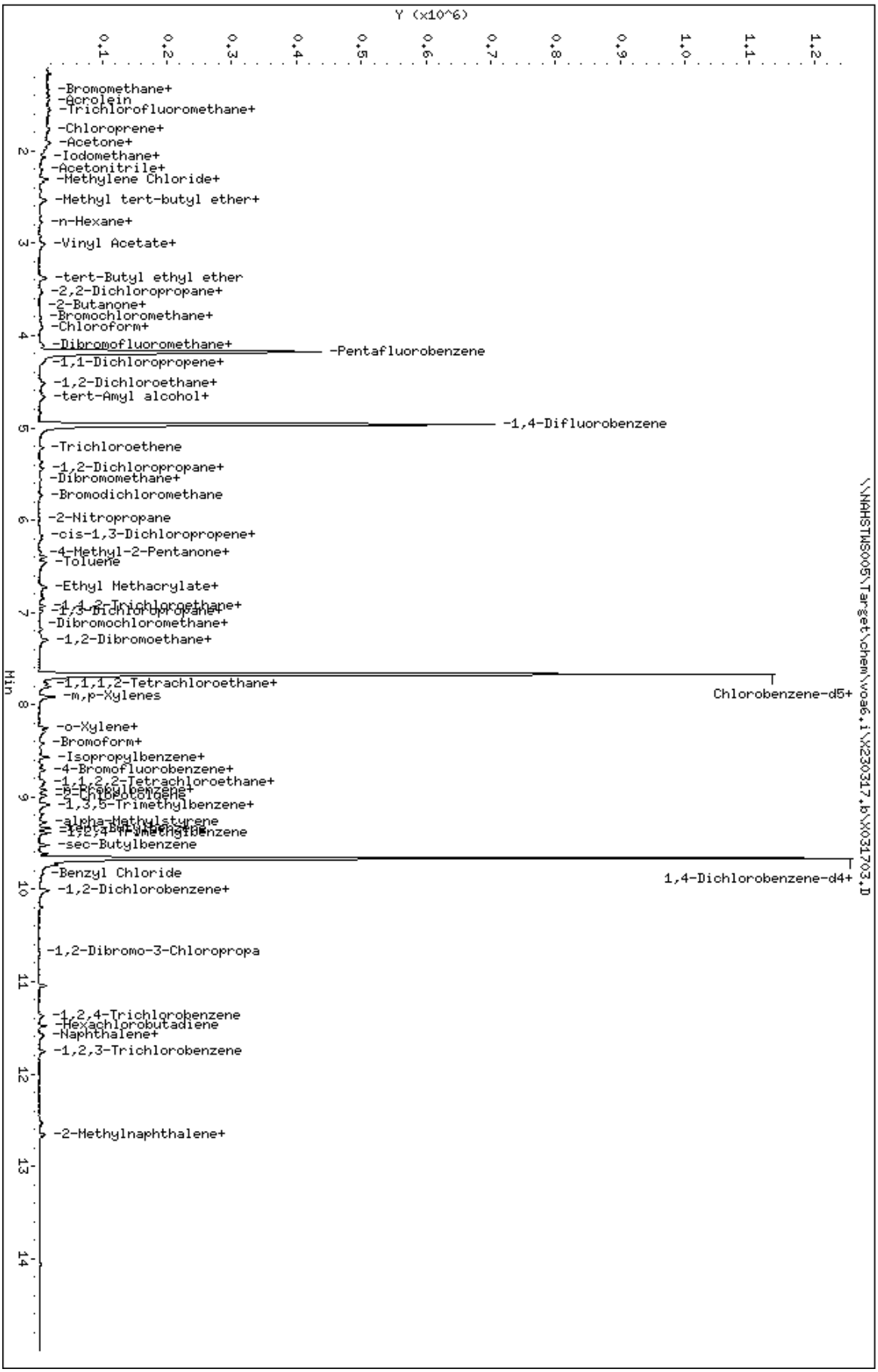
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	5378	0.50000	0.57(aM)
86	Benzyl Chloride	91	9.827	9.827	(1.282)	4324	0.50000	2.00(aM)
87	n-Butylbenzene	91	10.025	10.025	(1.038)	5143	0.50000	0.48(aM)
88	1,2-Dichlorobenzene	146	10.014	10.014	(1.036)	4957	0.50000	0.56(a)
89	1,2-Dibromo-3-Chloropropane	155	10.681	10.681	(1.106)	405	0.50000	1.86(aM)
90	1,2,4-Trichlorobenzene	180	11.367	11.367	(1.177)	3409	0.50000	0.53(a)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	1367	0.50000	2.35(aM)
92	Naphthalene	128	11.581	11.581	(1.199)	7876	0.50000	0.51(a)
93	1,2,3-Trichlorobenzene	180	11.761	11.761	(1.217)	3277	0.50000	0.53(aM)
146	Methyl acetate	43	2.258	2.258	(0.540)	1057	0.50000	0.49(aM)
138	Freon TF	101	1.917	1.917	(0.459)	1102	0.50000	1.75(aM)
141	Cyclohexane	56	4.125	4.125	(0.987)	2139	0.50000	2.30(aM)
142	Tetrahydrofuran	42	3.874	3.874	(0.926)	614	1.00000	1.02(aM)
147	Methylcyclohexane	55	5.370	5.370	(1.082)	4159	0.50000	0.50(aM)
135	1,4-Dioxane	88	5.628	5.628	(1.346)	500	10.0000	10.24(aM)
132	n-Butanol	56	5.373	5.373	(1.285)	783	10.0000	39.67(TaM)
131	Methyl Acrylate	55	3.780	3.780	(0.904)	1927	0.50000	0.50(TaM)
133	Ethyl Acrylate	55	5.370	5.370	(1.284)	3644	0.50000	0.45(aM)
136	n-Hexane	57	2.776	2.776	(0.664)	1555	0.50000	1.07(TaM)
139	Diethyl ether	59	1.767	1.767	(0.423)	1334	0.50000	0.54(TaM)
148	Tert-butyl alcohol	59	2.442	2.442	(0.584)	4322	10.0000	11.22
149	Isopropyl alcohol	45	2.105	2.105	(0.503)	1979	10.0000	9.61(TM)
156	Diisopropyl ether	45	3.000	3.000	(0.718)	5833	0.50000	0.51(TaM)
160	2-Methylnaphthalene	142	12.664	12.664	(1.311)	4839	0.50000	0.63(a)
166	1,2,3-Trimethylbenzene	105	9.740	9.740	(1.008)	8417	0.50000	0.55(a)
167	Ethanol	45	1.707	1.707	(0.408)	398	10.0000	12.06(M)
172	tert-Butyl formate	59	4.627	4.627	(1.107)	2676	1.00000	0.89(aM)
173	3,3-Dimethyl-1-butanol	57	7.300	7.300	(0.952)	4857	10.0000	10.96(M)
174	tert-Amyl methyl ether	73	4.669	4.669	(1.117)	7050	0.50000	0.53(aM)
175	tert-Butyl ethyl ether	59	3.379	3.379	(0.808)	6191	0.50000	0.51(aM)
176	tert-Amyl alcohol	59	4.627	4.627	(1.107)	3255	10.0000	10.34
151	4-Methyl-2-pentanol	45	6.727	6.727	(1.355)	8689	10.0000	9.89(M)
180	1-Methylnaphthalene	142	12.664	12.664	(1.311)	4839	0.50000	(a)
140	1,3-Butadiene	54	1.164	1.164	(0.278)	1361	0.50000	0.54(aM)
152	Amyl alcohol	42	6.985	6.985	(0.911)	1078	10.0000	10.40(M)
158	Dichlorofluoromethane	67	1.531	1.531	(0.366)	2337	0.50000	0.51(M)
159	Propylene oxide	43	1.808	1.808	(0.433)	209	1.00000	0.91(aM)
162	Butyl acrylate	55	8.297	8.297	(1.082)	4463	0.50000	0.52(aM)
182	Epichlorohydrin	57	6.127	6.127	(1.234)	641	2.00000	1.86(aM)
M 94	1,2-Dichloroethylene (total)	96				3848	1.00000	(a)
130	Ethyl Acetate	43	3.679	3.679	(0.880)	1988	0.50000	0.52(aM)
134	Cyclohexanone	55	8.653	8.653	(0.896)	2126	10.0000	11.36(aM)
185	Isoprene	39	1.748	1.748	(0.418)	361	0.50000	0.51(aM)
188	Isopropyl acetate	43	4.684	4.684	(0.943)	5705	0.50000	0.52(a)
187	n-Amyl acetate	43	8.500	8.500	(1.109)	3393	0.50000	0.47(aM)
189	n-Butyl acetate	43	7.244	7.244	(0.945)	3030	0.50000	0.49(aM)
150	Allyl alcohol	57	2.776	2.776	(0.664)	1223	10.0000	17.64(M)
195	Methyl Amyl Ketone	43	8.417	8.417	(1.098)	4445	0.50000	0.48(aM)
200	Dimethyl Disulfide	94	6.202	6.202	(0.809)	3700	0.50000	0.49(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Dichlorodifluoromethane (75-71-8)

Reason Code:

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30-Mar-2023
12:33
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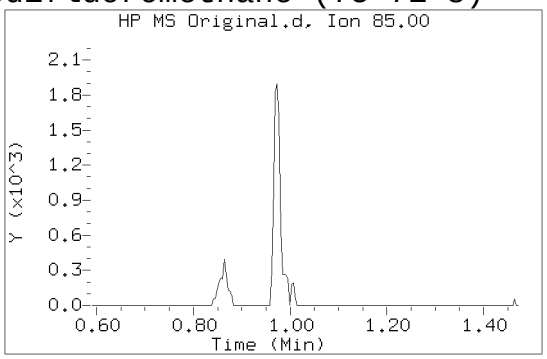

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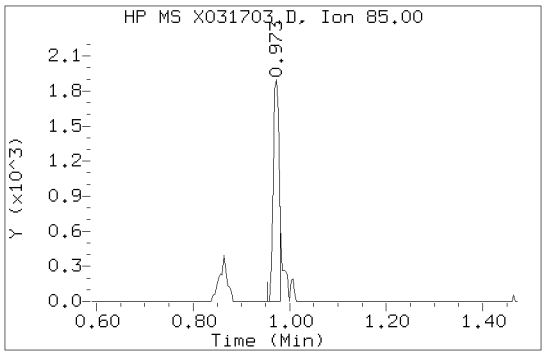

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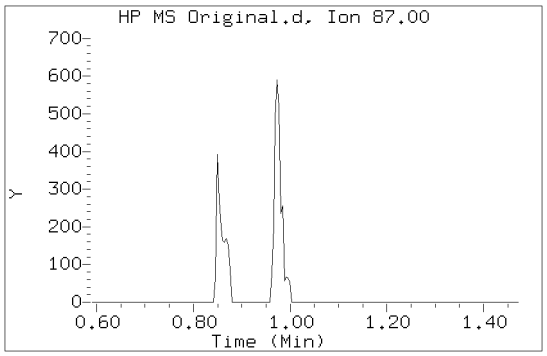

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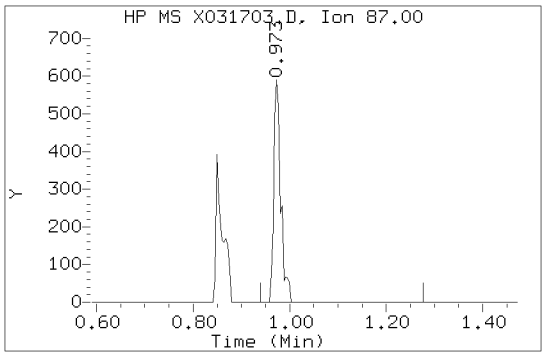

Chloromethane (74-87-3)

Reason Code:

BEFORE
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30-Mar-2023
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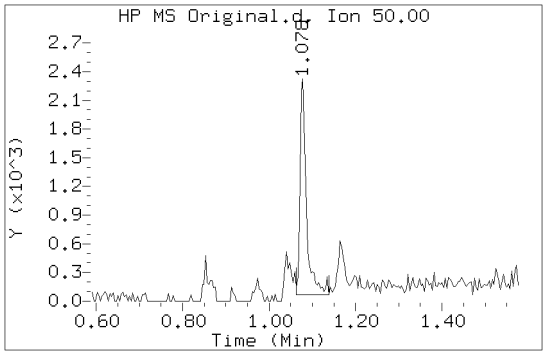

AFTER
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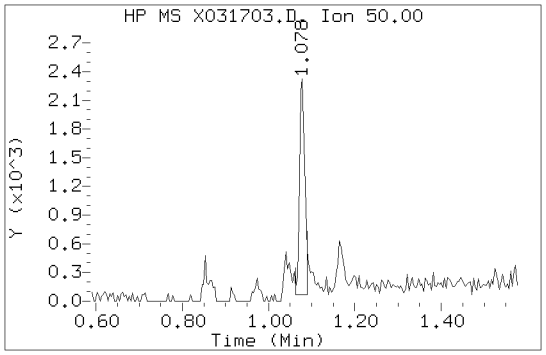

BEFORE
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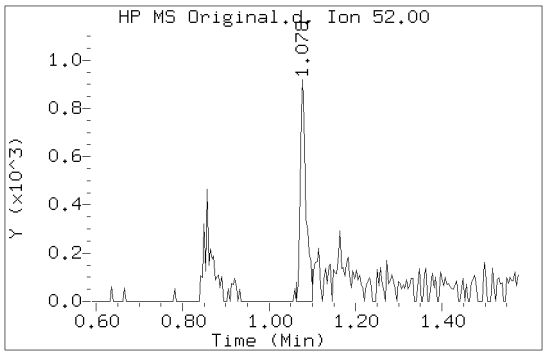
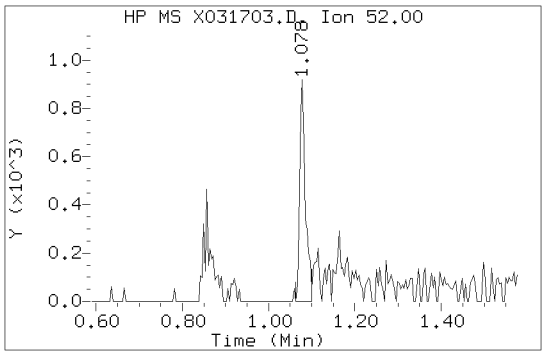
HEIGHT
919
30-Mar-2023
12:33
linh
pham



AFTER
MASS
52
AREA
852
HEIGHT
919
30-Mar-2023
12:41
linh
pham



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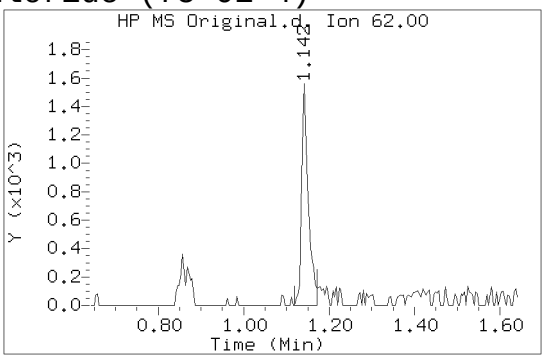
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Vinyl Chloride (75-01-4)

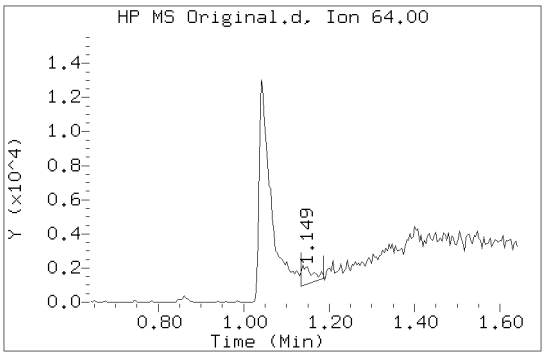
BEFORE

MASS
62
AREA
1767
HEIGHT
1561
30-Mar-2023
12:33
linh
pham



BEFORE

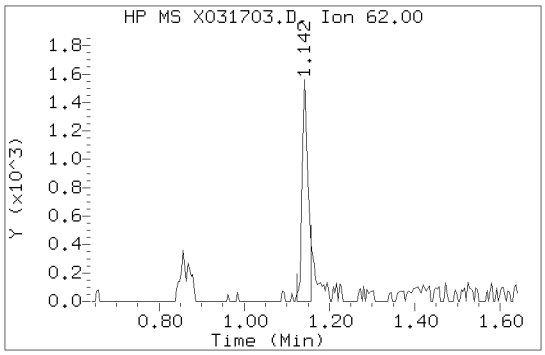
MASS
64
AREA
2020
HEIGHT
989
30-Mar-2023
12:33
linh
pham



Reason Code:

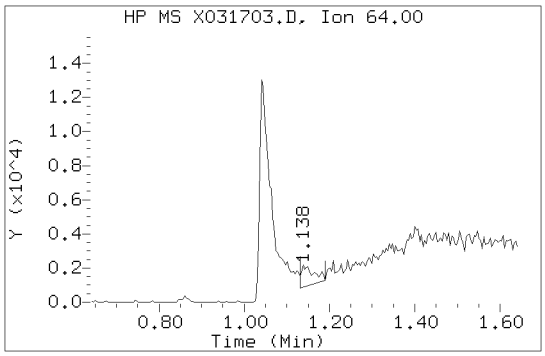
AFTER

MASS
62
AREA
1572
HEIGHT
1561
30-Mar-2023
12:41
linh
pham



AFTER

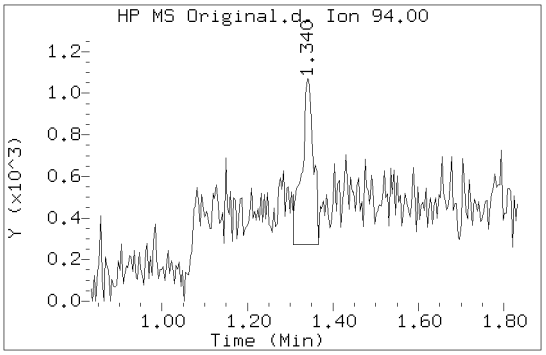
MASS
64
AREA
2509
HEIGHT
1287
30-Mar-2023
12:41
linh
pham



Bromomethane (74-83-9)

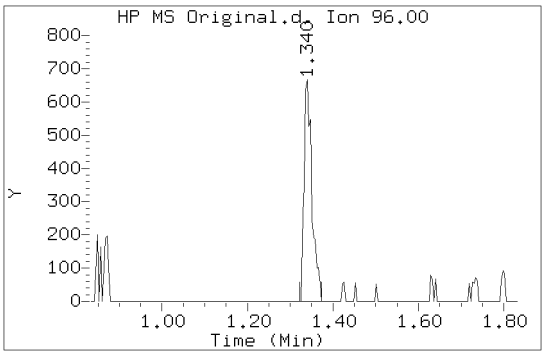
BEFORE

MASS
94
AREA
1545
HEIGHT
797
30-Mar-2023
12:33
linh
pham



BEFORE

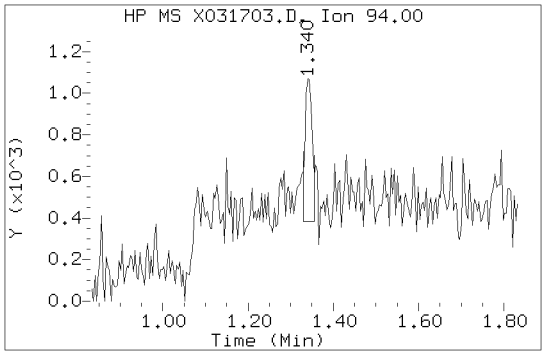
MASS
96
AREA
869
HEIGHT
667
30-Mar-2023
12:33
linh
pham



Reason Code:

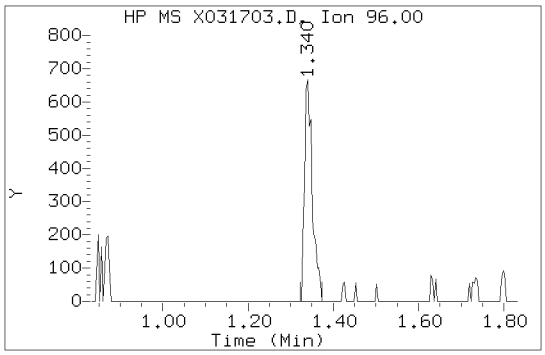
AFTER

MASS
94
AREA
833
HEIGHT
685
30-Mar-2023
12:41
linh
pham



AFTER

MASS
96
AREA
869
HEIGHT
667
30-Mar-2023
12:41
linh
pham



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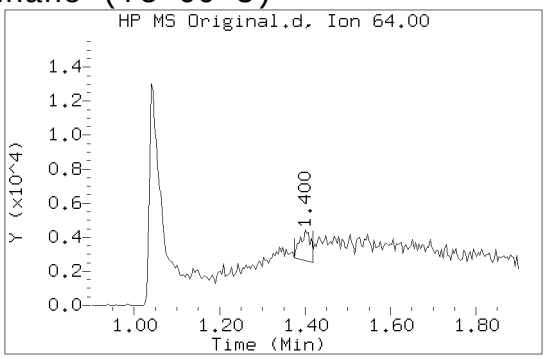
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

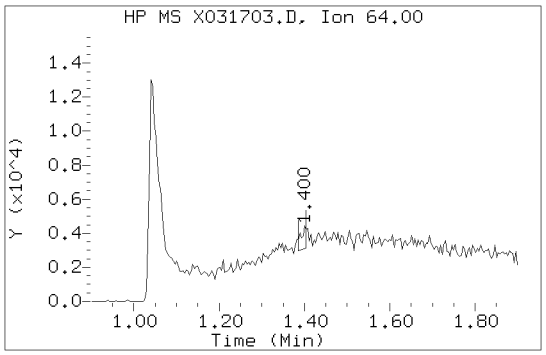
Chloroethane (75-00-3)

Reason Code:

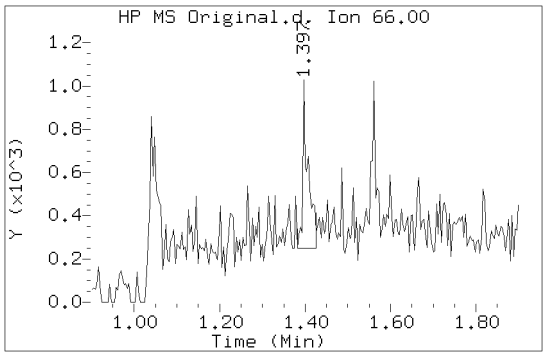
BEFORE
MASS
64
AREA
3174
HEIGHT
1811
30-Mar-2023
12:33
linh
pham



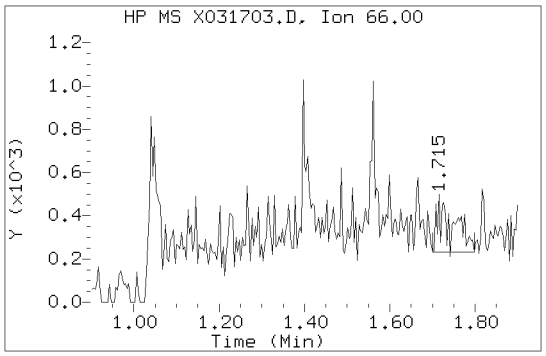
AFTER
MASS
64
AREA
1227
HEIGHT
1330
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
66
AREA
696
HEIGHT
778
30-Mar-2023
12:33
linh
pham



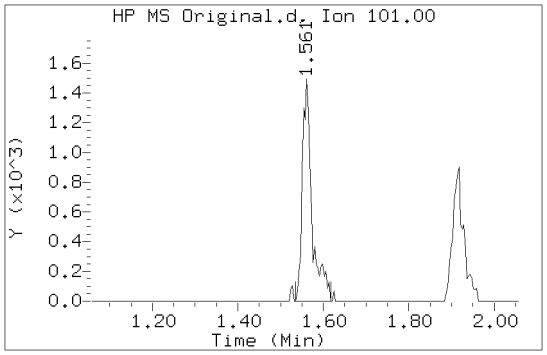
AFTER
MASS
66
AREA
666
HEIGHT
269
30-Mar-2023
12:41
linh
pham



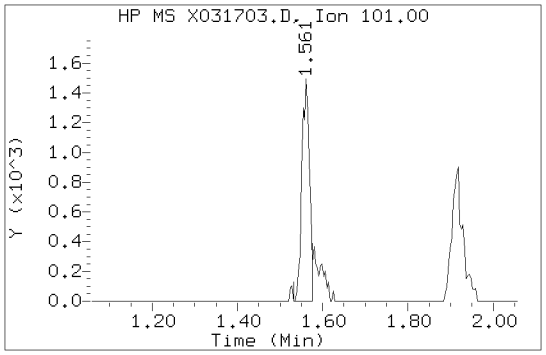
Trichlorofluoromethane (75-69-4)

Reason Code:

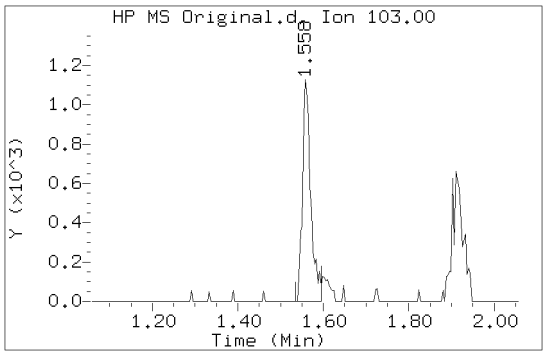
BEFORE
MASS
101
AREA
2389
HEIGHT
1494
30-Mar-2023
12:33
linh
pham



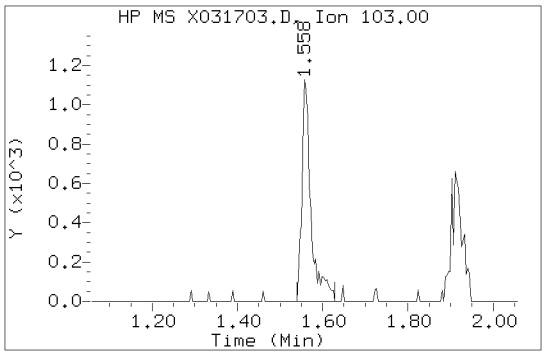
AFTER
MASS
101
AREA
1920
HEIGHT
1494
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
103
AREA
1567
HEIGHT
1128
30-Mar-2023
12:33
linh
pham



AFTER
MASS
103
AREA
1729
HEIGHT
1128
30-Mar-2023
12:41
linh
pham



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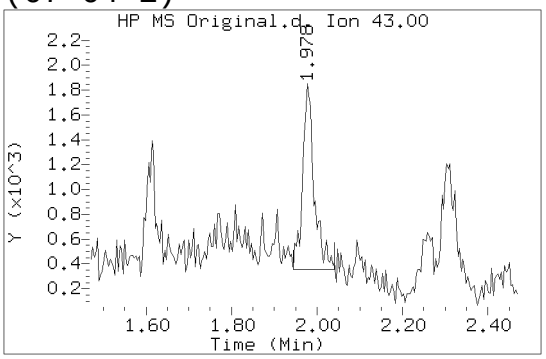
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

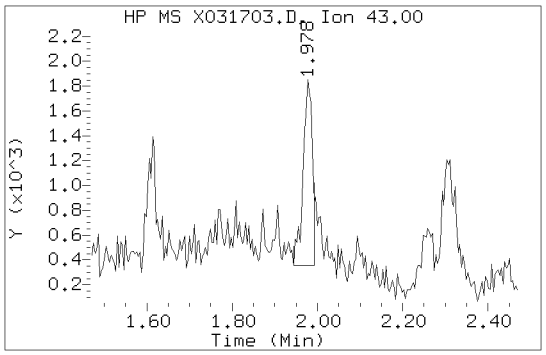
Acetone (67-64-1)

Reason Code:

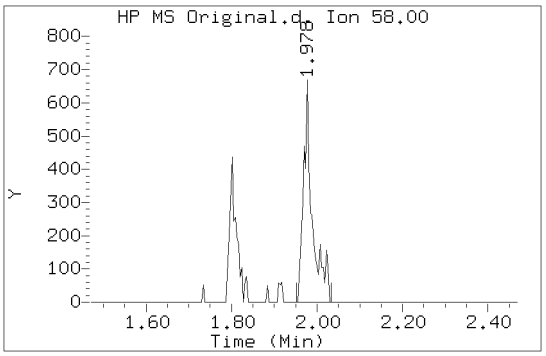
BEFORE
MASS
43
AREA
2850
HEIGHT
1495
30-Mar-2023
12:33
linh
pham



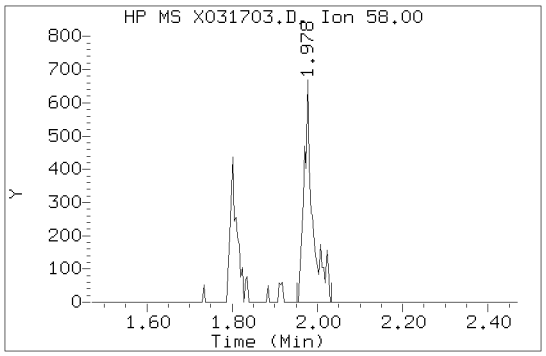
AFTER
MASS
43
AREA
2266
HEIGHT
1495
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
58
AREA
967
HEIGHT
669
30-Mar-2023
12:33
linh
pham



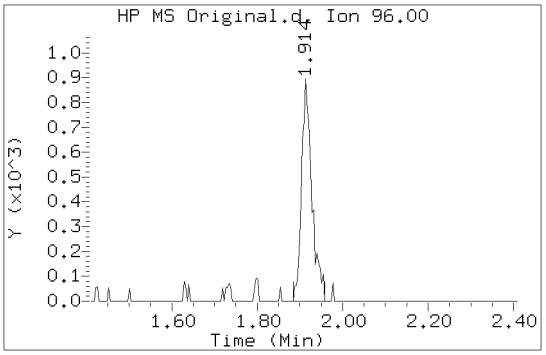
AFTER
MASS
58
AREA
967
HEIGHT
669
30-Mar-2023
12:41
linh
pham



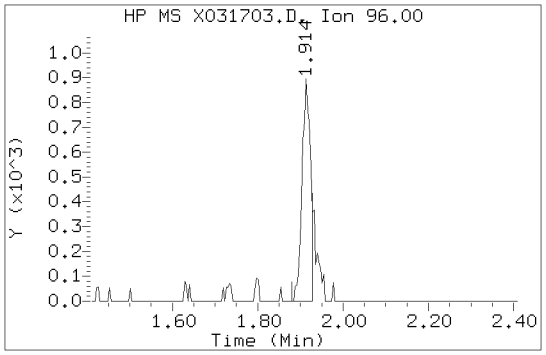
1,1-Dichloroethene (75-35-4)

Reason Code:

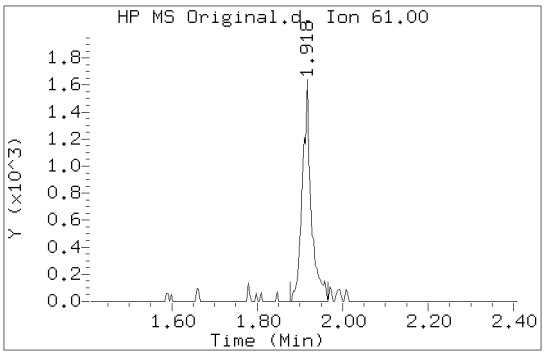
BEFORE
MASS
96
AREA
1510
HEIGHT
895
30-Mar-2023
12:33
linh
pham



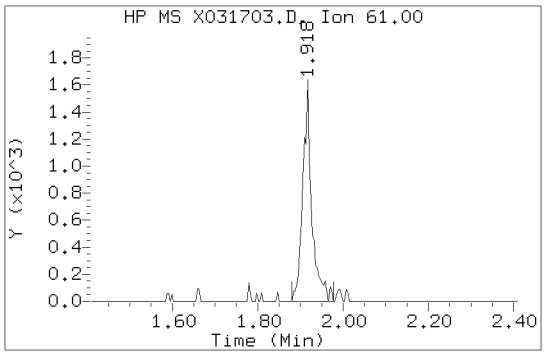
AFTER
MASS
96
AREA
1244
HEIGHT
895
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
61
AREA
2357
HEIGHT
1639
30-Mar-2023
12:33
linh
pham



AFTER
MASS
61
AREA
2400
HEIGHT
1639
30-Mar-2023
12:41
linh
pham



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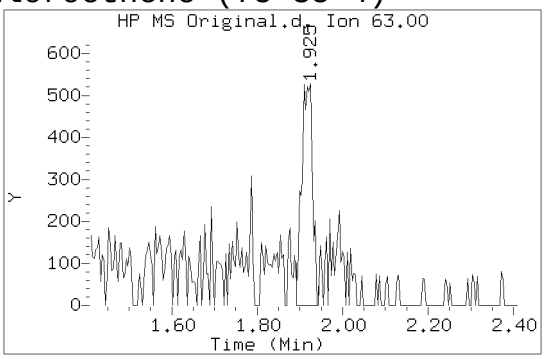
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,1-Dichloroethene (75-35-4)

Reason Code:

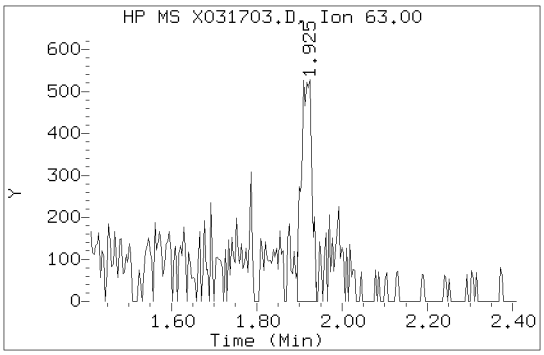
BEFORE

MASS
63
AREA
946
HEIGHT
528
30-Mar-2023
12:33
linh
pham



AFTER

MASS
63
AREA
934
HEIGHT
528
30-Mar-2023
12:41
linh
pham

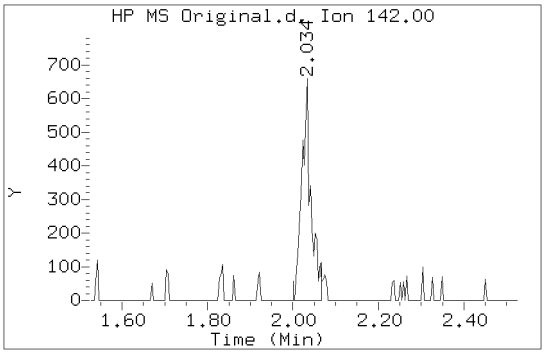


Iodomethane (74-88-4)

Reason Code:

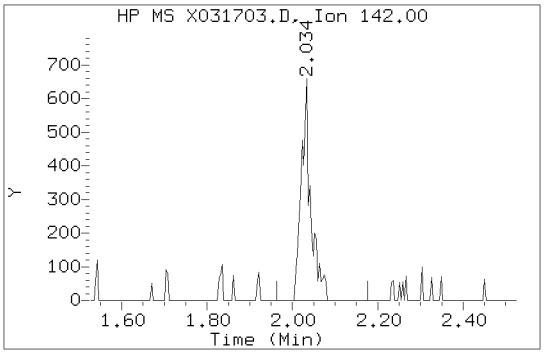
BEFORE

MASS
142
AREA
993
HEIGHT
659
30-Mar-2023
12:33
linh
pham



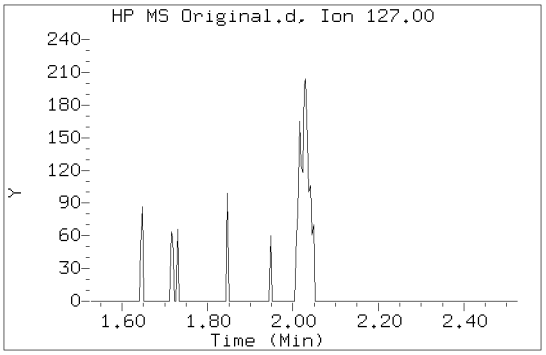
AFTER

MASS
142
AREA
1037
HEIGHT
659
30-Mar-2023
12:41
linh
pham



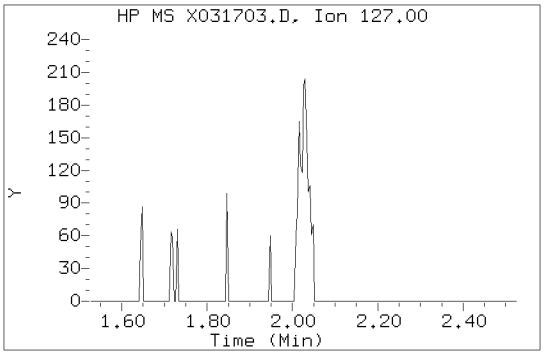
BEFORE

MASS
127
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



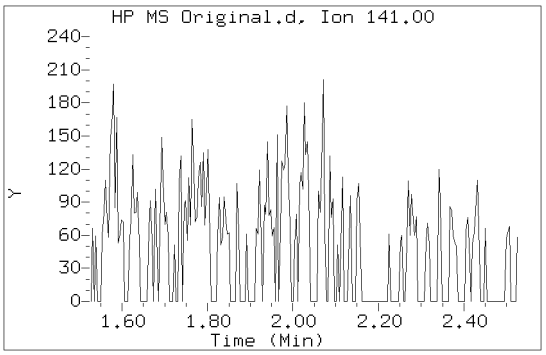
AFTER

MASS
127
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



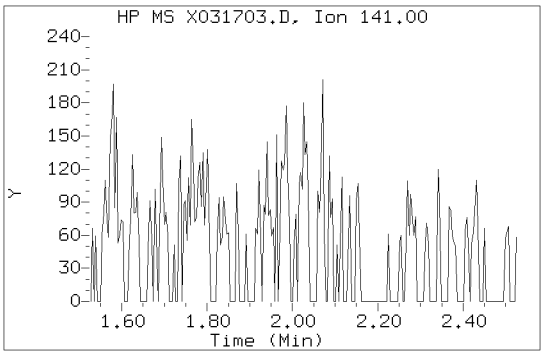
BEFORE

MASS
141
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
141
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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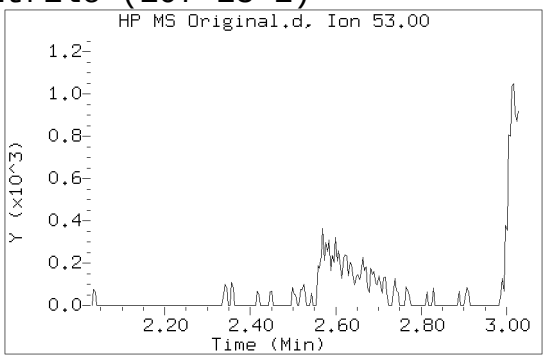
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

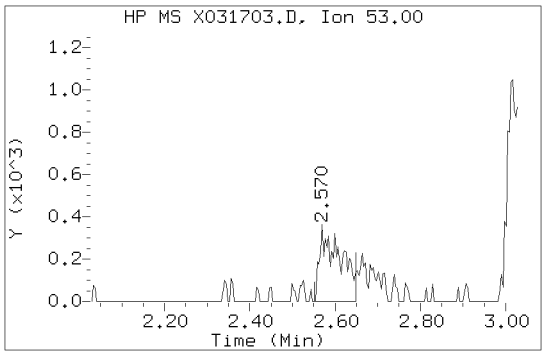
Acrylonitrile (107-13-1)

Reason Code:

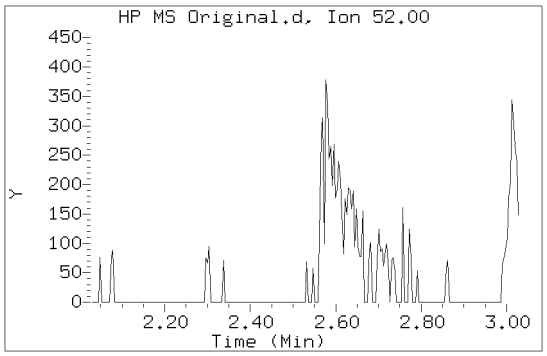
BEFORE
MASS
53
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



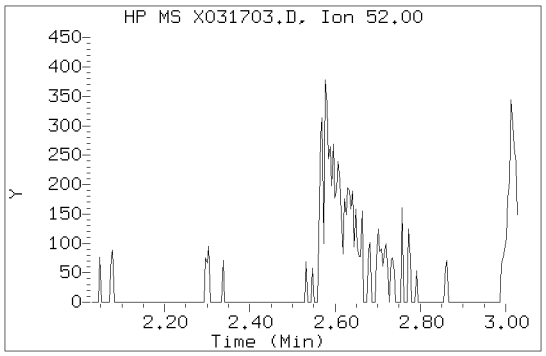
AFTER
MASS
53
AREA
1196
HEIGHT
364
30-Mar-2023
12:41
linh
pham



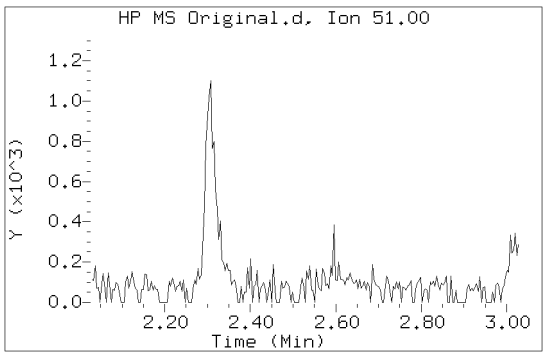
BEFORE
MASS
52
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



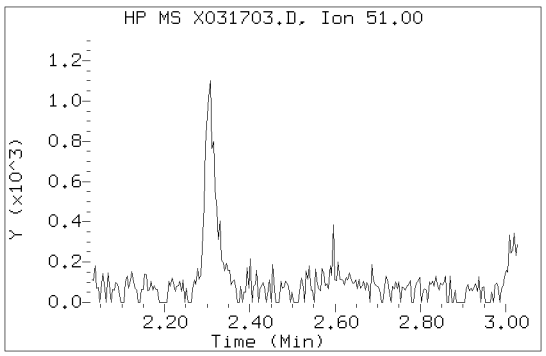
AFTER
MASS
52
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
51
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



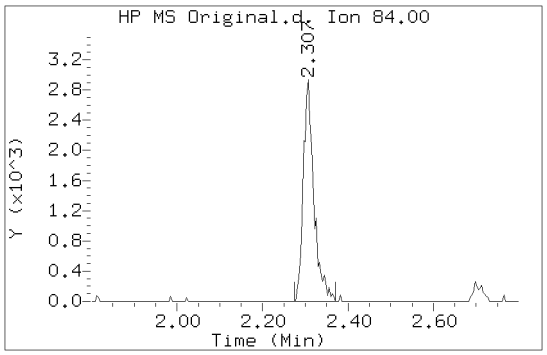
AFTER
MASS
51
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



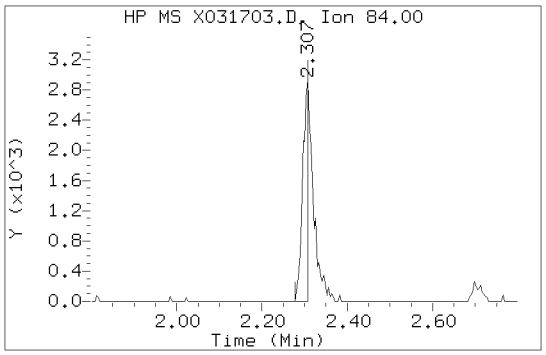
Methylene Chloride (75-09-2)

Reason Code:

BEFORE
MASS
84
AREA
5152
HEIGHT
2937
30-Mar-2023
12:33
linh
pham



AFTER
MASS
84
AREA
2729
HEIGHT
2937
30-Mar-2023
12:41
linh
pham



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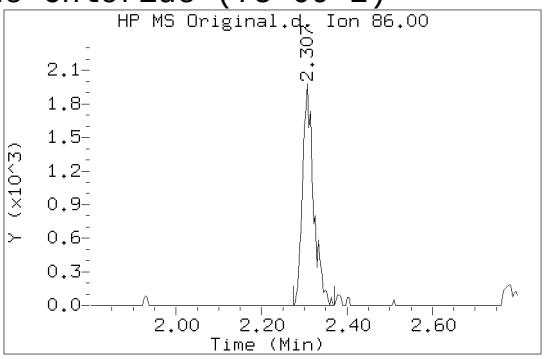
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Methylene Chloride (75-09-2)

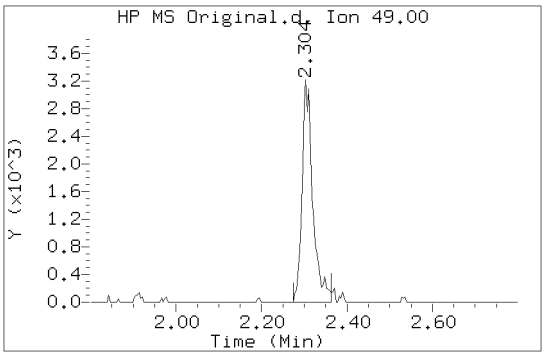
BEFORE

MASS
86
AREA
3619
HEIGHT
1981
30-Mar-2023
12:33
linh
pham



BEFORE

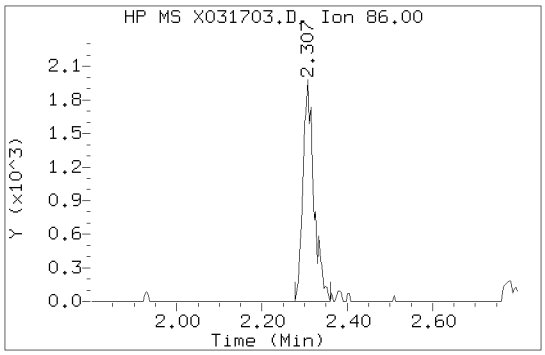
MASS
49
AREA
5693
HEIGHT
3215
30-Mar-2023
12:33
linh
pham



Reason Code:

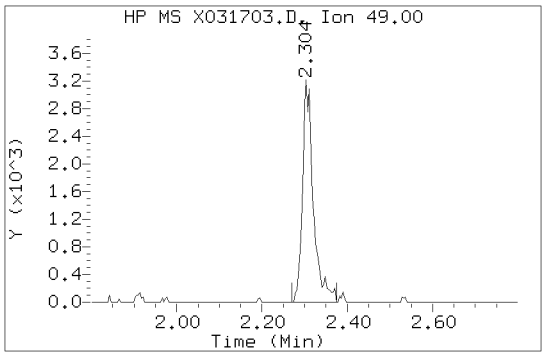
AFTER

MASS
86
AREA
3603
HEIGHT
1981
30-Mar-2023
12:41
linh
pham



AFTER

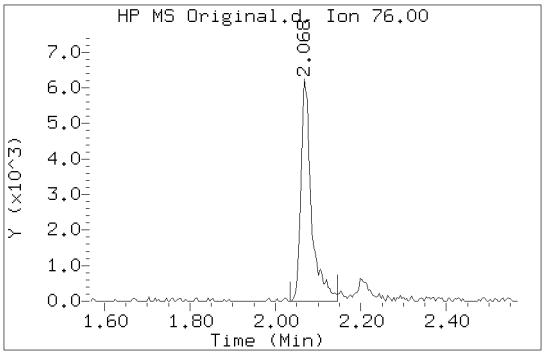
MASS
49
AREA
5772
HEIGHT
3215
30-Mar-2023
12:41
linh
pham



Carbon Disulfide (75-15-0)

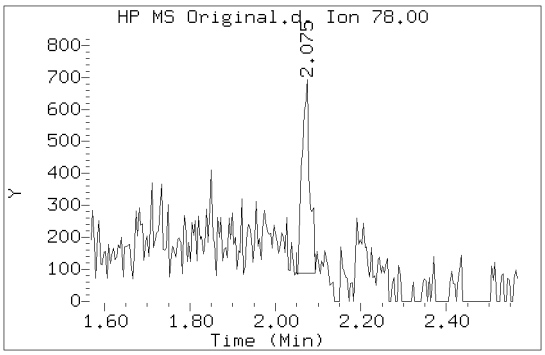
BEFORE

MASS
76
AREA
11053
HEIGHT
6252
30-Mar-2023
12:33
linh
pham



BEFORE

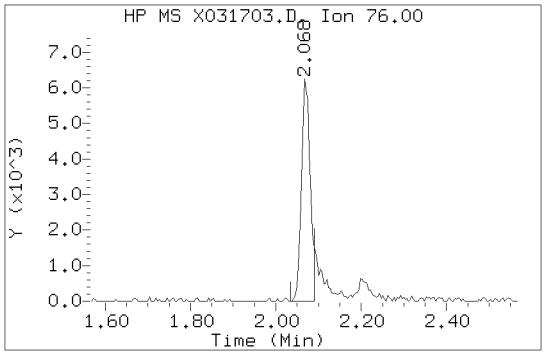
MASS
78
AREA
773
HEIGHT
605
30-Mar-2023
12:33
linh
pham



Reason Code:

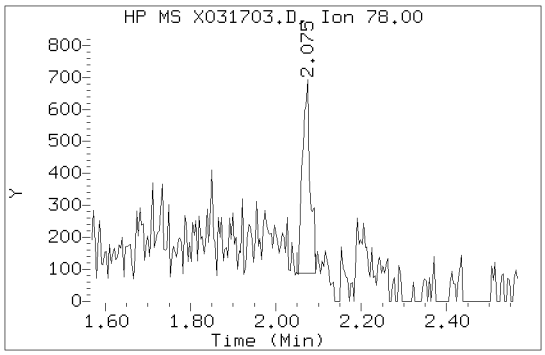
AFTER

MASS
76
AREA
9182
HEIGHT
6252
30-Mar-2023
12:41
linh
pham



AFTER

MASS
78
AREA
773
HEIGHT
605
30-Mar-2023
12:41
linh
pham



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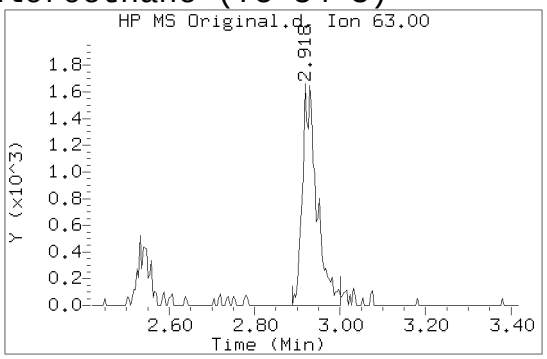
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,1-Dichloroethane (75-34-3)

Reason Code:

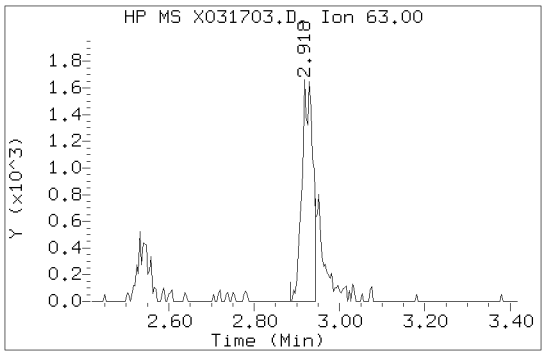
BEFORE

MASS
63
AREA
3888
HEIGHT
1662
30-Mar-2023
12:33
linh
pham



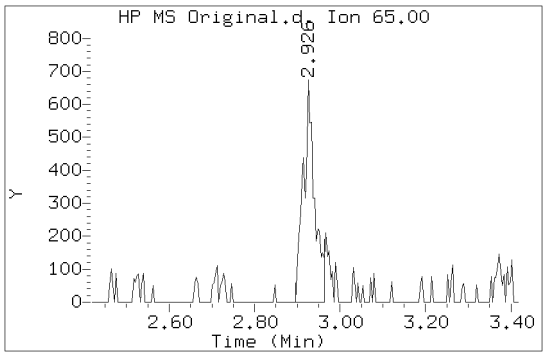
AFTER

MASS
63
AREA
2973
HEIGHT
1662
30-Mar-2023
12:41
linh
pham



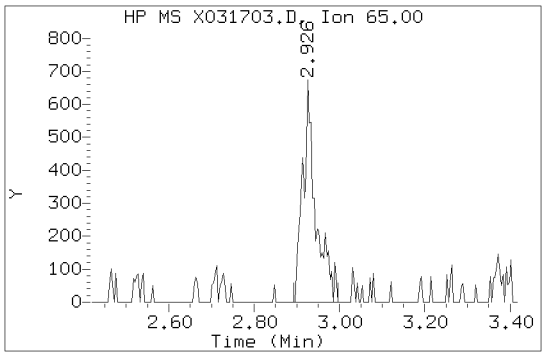
BEFORE

MASS
65
AREA
1248
HEIGHT
674
30-Mar-2023
12:33
linh
pham



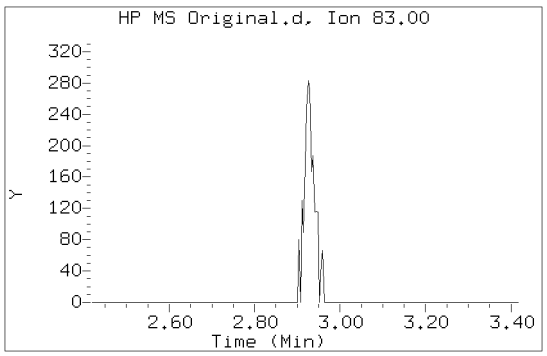
AFTER

MASS
65
AREA
1438
HEIGHT
674
30-Mar-2023
12:41
linh
pham



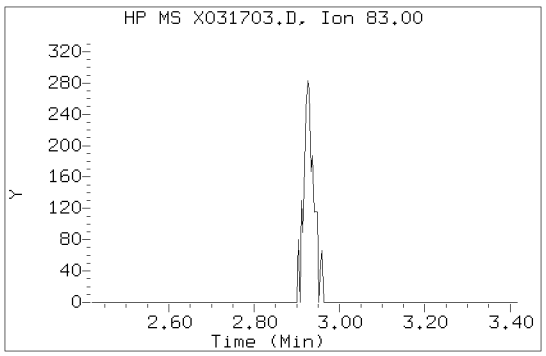
BEFORE

MASS
83
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
83
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

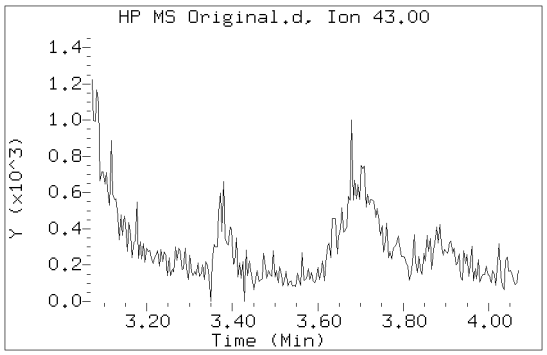


2-Butanone (78-93-3)

Reason Code:

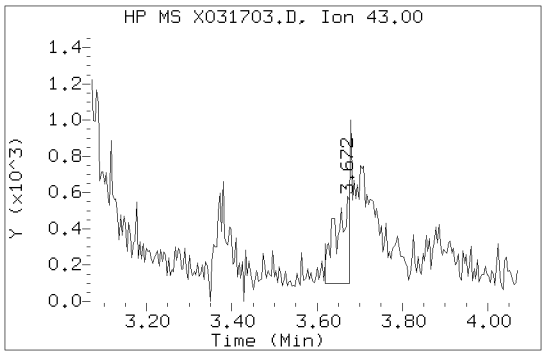
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
AREA
1066
HEIGHT
481
30-Mar-2023
12:41
linh
pham



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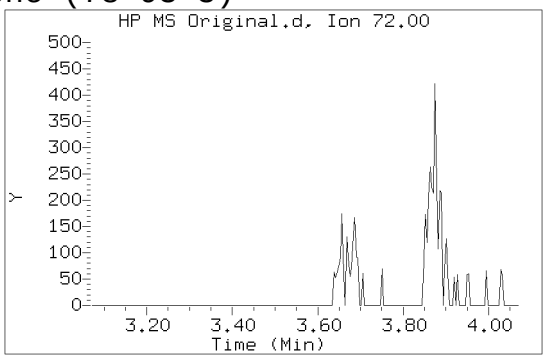
InstruID : voa6.i
LabSampID : VSTD000.5

2-Butanone (78-93-3)

Reason Code:

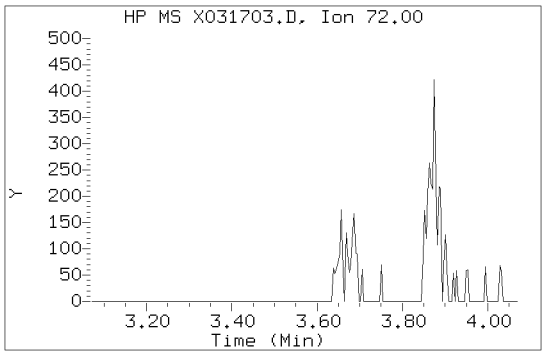
BEFORE

MASS
72
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
72
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

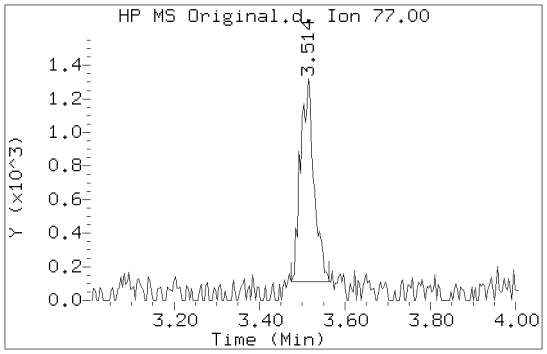


2,2-Dichloropropane (594-20-7)

Reason Code:

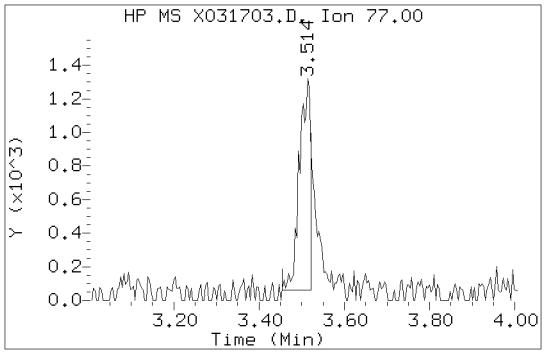
BEFORE

MASS
77
AREA
2693
HEIGHT
1211
30-Mar-2023
12:33
linh
pham



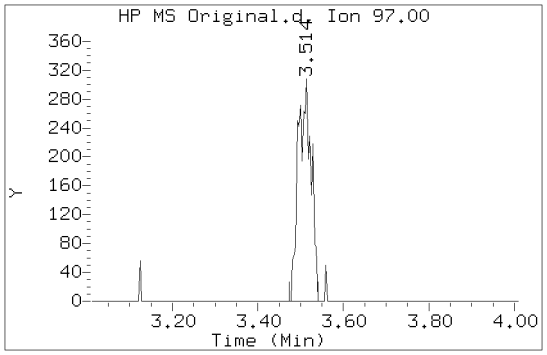
AFTER

MASS
77
AREA
2270
HEIGHT
1258
30-Mar-2023
12:41
linh
pham



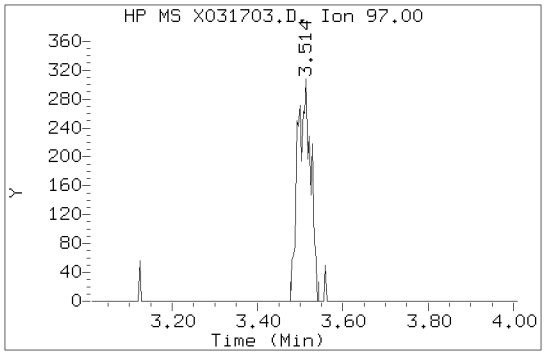
BEFORE

MASS
97
AREA
659
HEIGHT
308
30-Mar-2023
12:33
linh
pham



AFTER

MASS
97
AREA
659
HEIGHT
308
30-Mar-2023
12:41
linh
pham

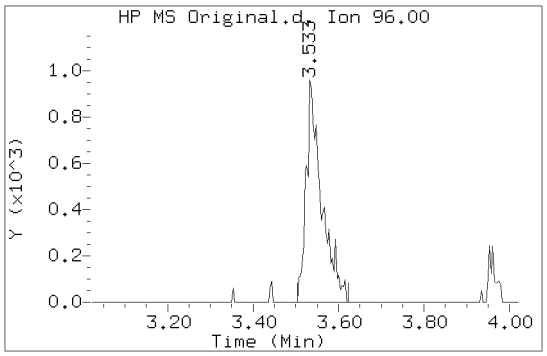


cis-1,2-Dichloroethene (156-59-2)

Reason Code:

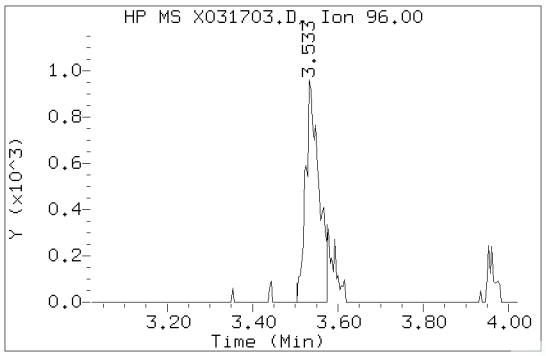
BEFORE

MASS
96
AREA
2438
HEIGHT
961
30-Mar-2023
12:33
linh
pham



AFTER

MASS
96
AREA
2082
HEIGHT
961
30-Mar-2023
12:41
linh
pham



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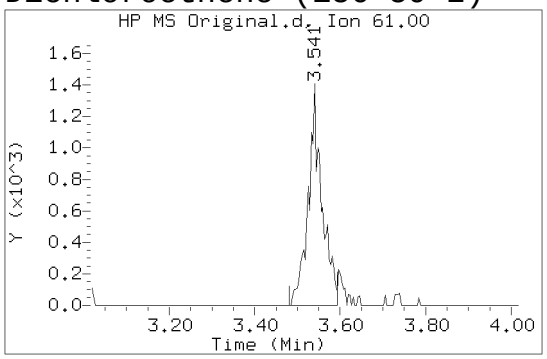
InstruID : voa6.i
LabSampID : VSTD000.5

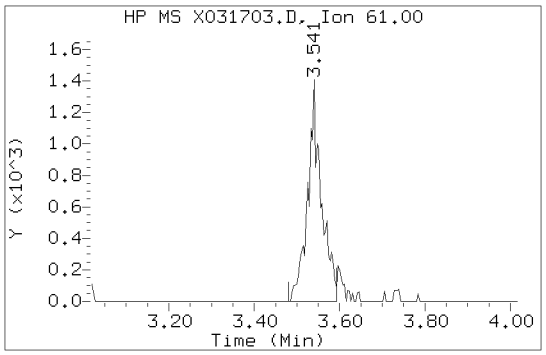
cis-1,2-Dichloroethene (156-59-2)

Reason Code:

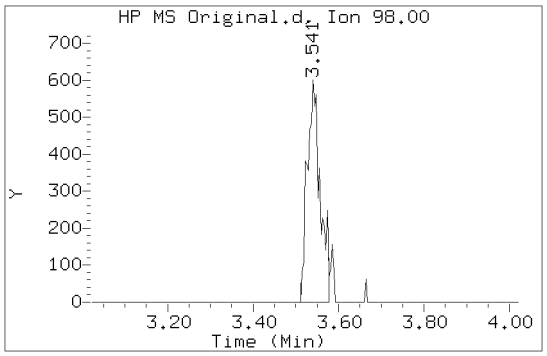
BEFORE
MASS
61
AREA
3124
HEIGHT
1408
30-Mar-2023
12:33
linh
pham



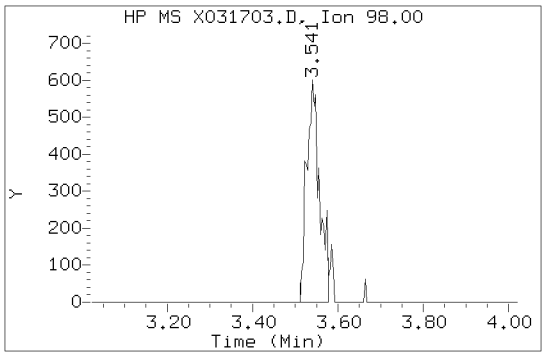
AFTER
MASS
61
AREA
3124
HEIGHT
1408
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
98
AREA
1273
HEIGHT
601
30-Mar-2023
12:33
linh
pham



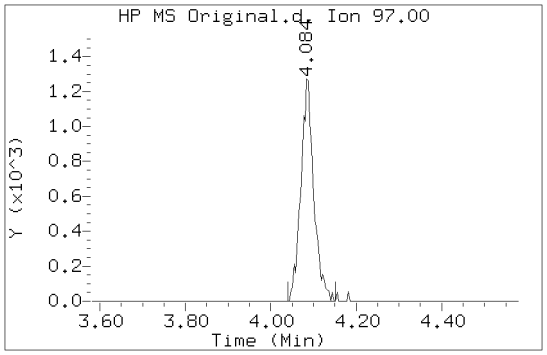
AFTER
MASS
98
AREA
1273
HEIGHT
601
30-Mar-2023
12:41
linh
pham



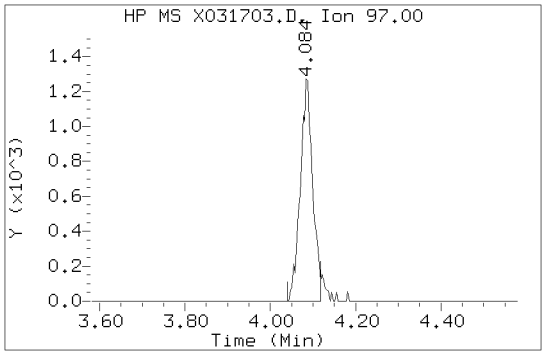
1,1,1-Trichloroethane (71-55-6)

Reason Code:

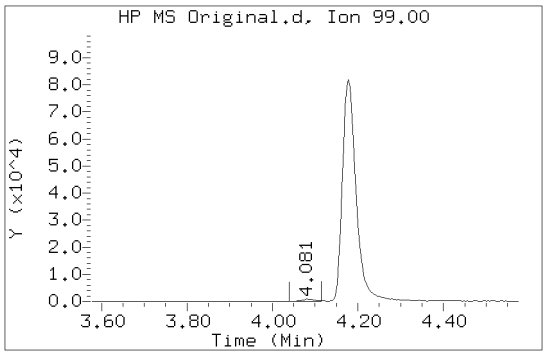
BEFORE
MASS
97
AREA
2725
HEIGHT
1272
30-Mar-2023
12:33
linh
pham



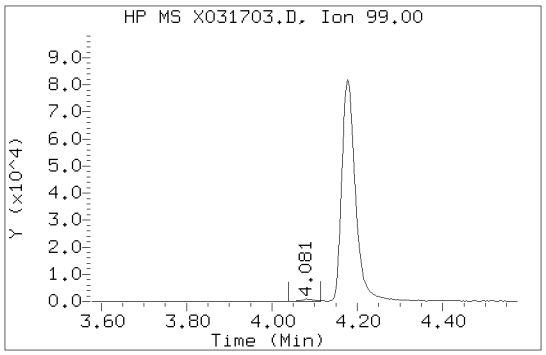
AFTER
MASS
97
AREA
2607
HEIGHT
1272
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
99
AREA
1800
HEIGHT
872
30-Mar-2023
12:33
linh
pham



AFTER
MASS
99
AREA
1800
HEIGHT
872
30-Mar-2023
12:41
linh
pham



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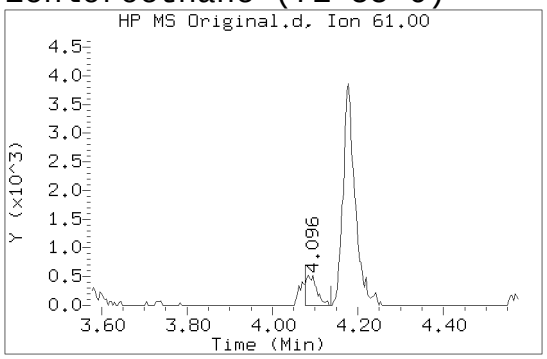
InstruID : voa6.i
LabSampID : VSTD000.5

1,1,1-Trichloroethane (71-55-6)

Reason Code:

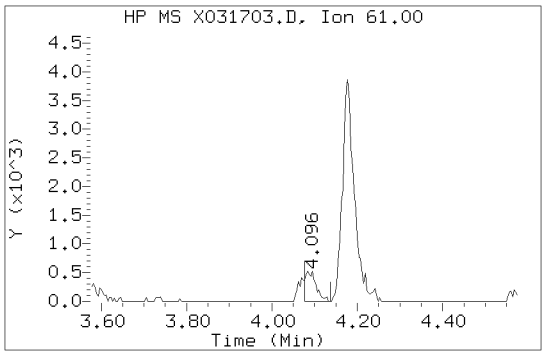
BEFORE

MASS
61
AREA
940
HEIGHT
530
30-Mar-2023
12:33
linh
pham



AFTER

MASS
61
AREA
940
HEIGHT
530
30-Mar-2023
12:41
linh
pham

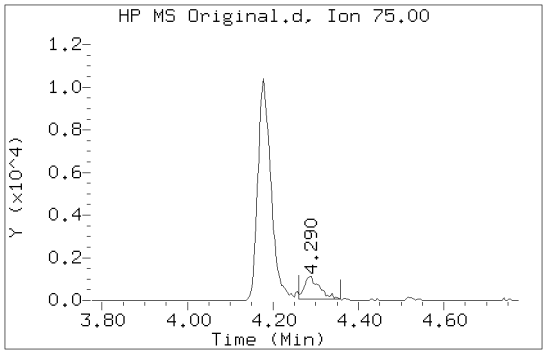


1,1-Dichloropropene (563-58-6)

Reason Code:

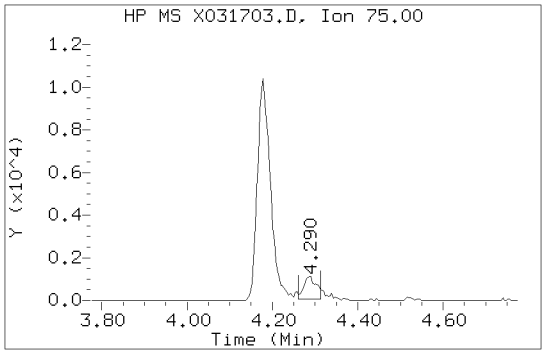
BEFORE

MASS
75
AREA
2621
HEIGHT
1062
30-Mar-2023
12:33
linh
pham



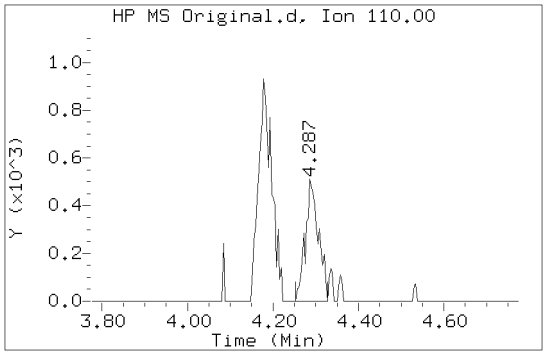
AFTER

MASS
75
AREA
2227
HEIGHT
1062
30-Mar-2023
12:41
linh
pham



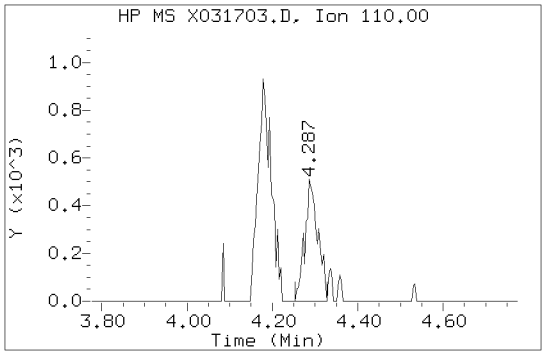
BEFORE

MASS
110
AREA
1088
HEIGHT
511
30-Mar-2023
12:33
linh
pham



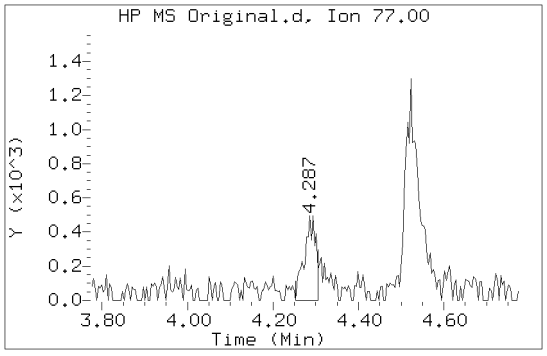
AFTER

MASS
110
AREA
1088
HEIGHT
511
30-Mar-2023
12:41
linh
pham



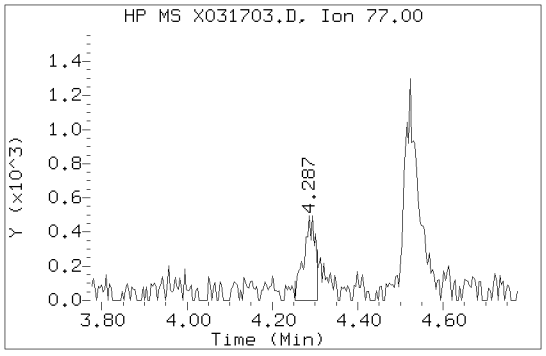
BEFORE

MASS
77
AREA
921
HEIGHT
494
30-Mar-2023
12:33
linh
pham



AFTER

MASS
77
AREA
921
HEIGHT
494
30-Mar-2023
12:41
linh
pham



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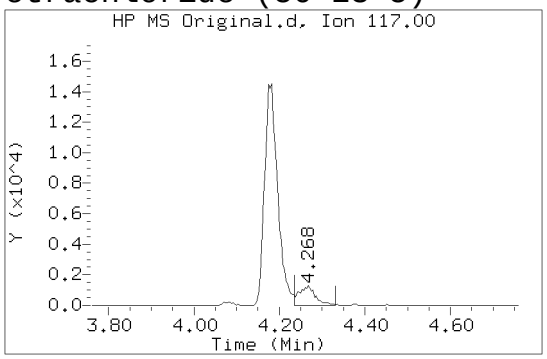
InstruID : voa6.i
LabSampID : VSTD000.5

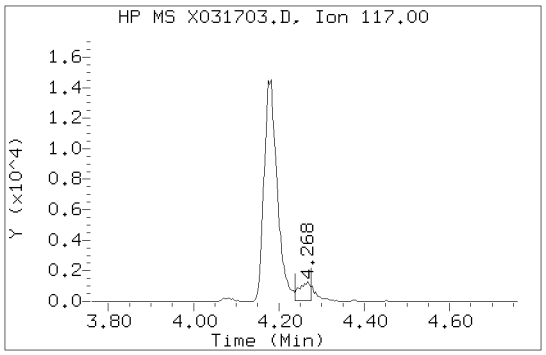
Carbon Tetrachloride (56-23-5)

Reason Code:

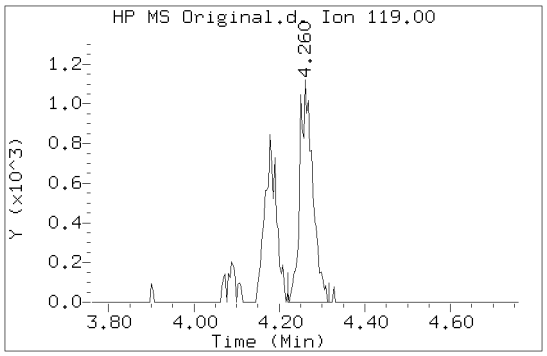
BEFORE
MASS
117
AREA
3507
HEIGHT
1289
30-Mar-2023
12:33
linh
pham



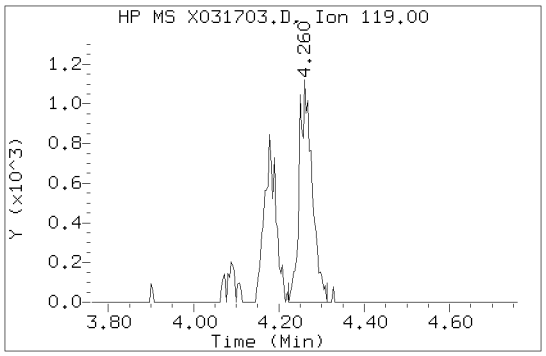
AFTER
MASS
117
AREA
2318
HEIGHT
1241
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
119
AREA
2388
HEIGHT
1121
30-Mar-2023
12:33
linh
pham



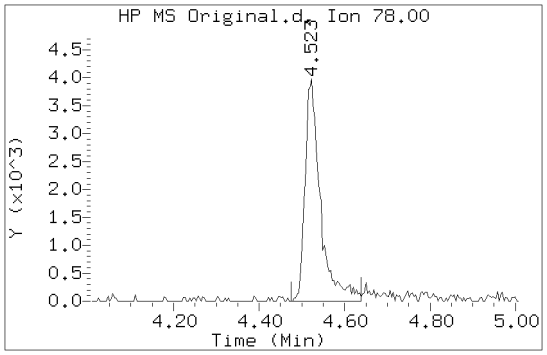
AFTER
MASS
119
AREA
2377
HEIGHT
1121
30-Mar-2023
12:41
linh
pham



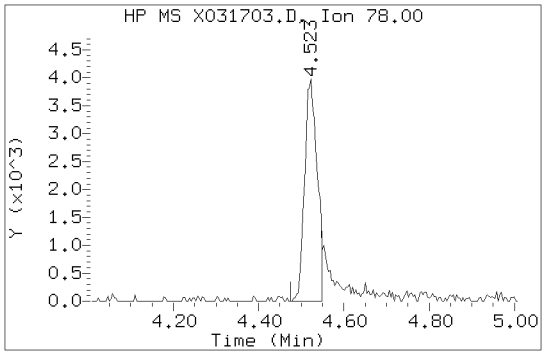
Benzene (71-43-2)

Reason Code:

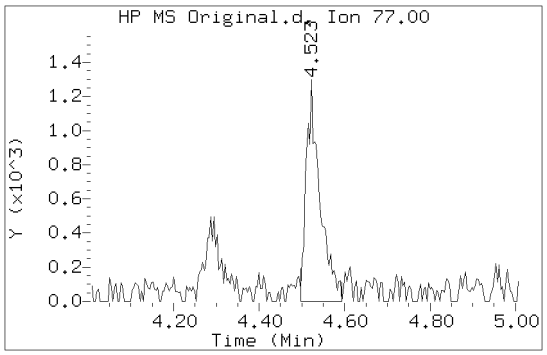
BEFORE
MASS
78
AREA
10052
HEIGHT
3980
30-Mar-2023
12:33
linh
pham



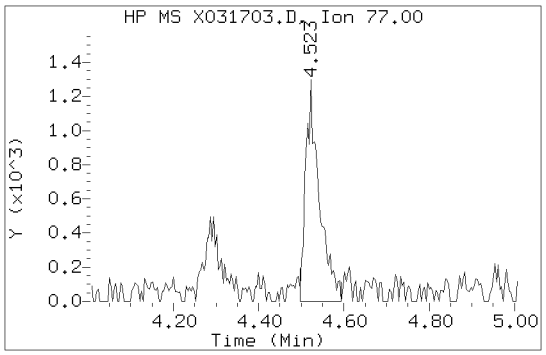
AFTER
MASS
78
AREA
8236
HEIGHT
3980
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
77
AREA
2911
HEIGHT
1298
30-Mar-2023
12:33
linh
pham



AFTER
MASS
77
AREA
2911
HEIGHT
1298
30-Mar-2023
12:41
linh
pham



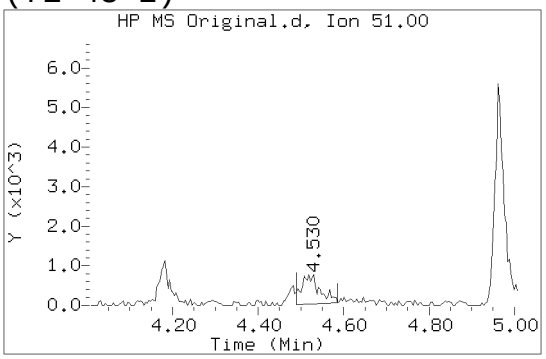
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Benzene (71-43-2)

Reason Code:

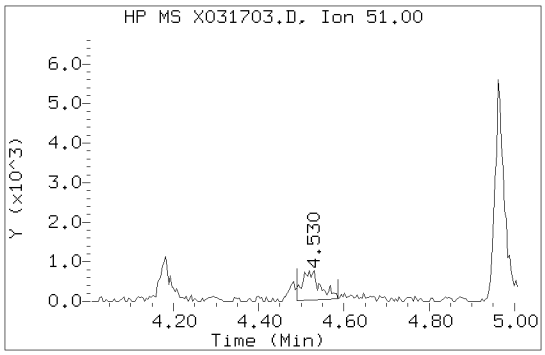
BEFORE

MASS
51
AREA
2203
HEIGHT
738
30-Mar-2023
12:33
linh
pham



AFTER

MASS
51
AREA
2203
HEIGHT
738
30-Mar-2023
12:41
linh
pham

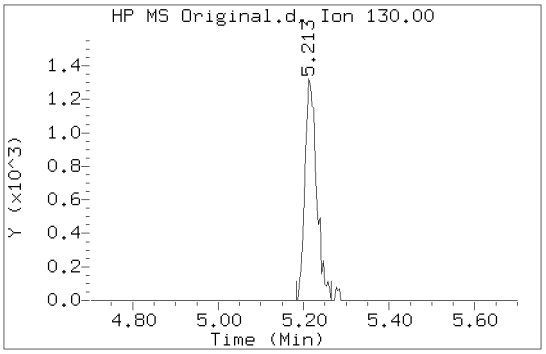


Trichloroethene (79-01-6)

Reason Code:

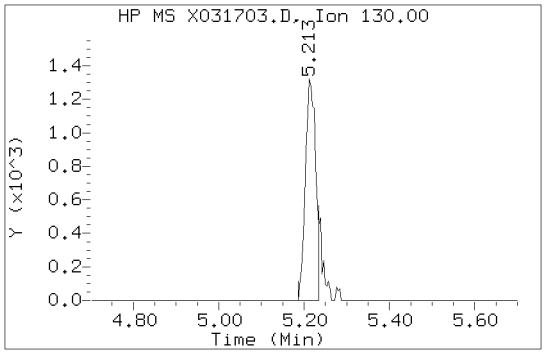
BEFORE

MASS
130
AREA
2536
HEIGHT
1323
30-Mar-2023
12:33
linh
pham



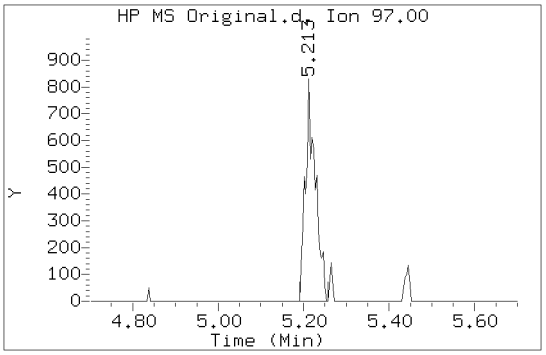
AFTER

MASS
130
AREA
2257
HEIGHT
1323
30-Mar-2023
12:41
linh
pham



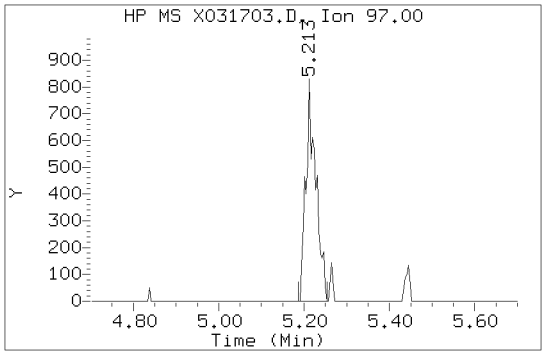
BEFORE

MASS
97
AREA
1364
HEIGHT
830
30-Mar-2023
12:33
linh
pham



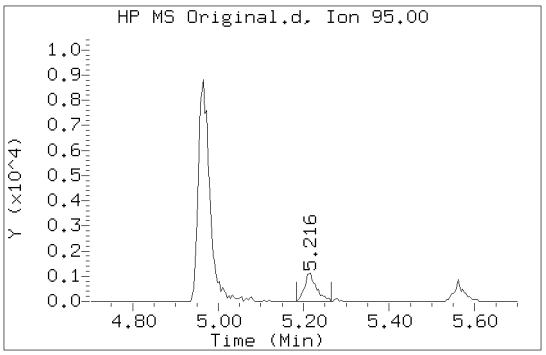
AFTER

MASS
97
AREA
1364
HEIGHT
830
30-Mar-2023
12:41
linh
pham



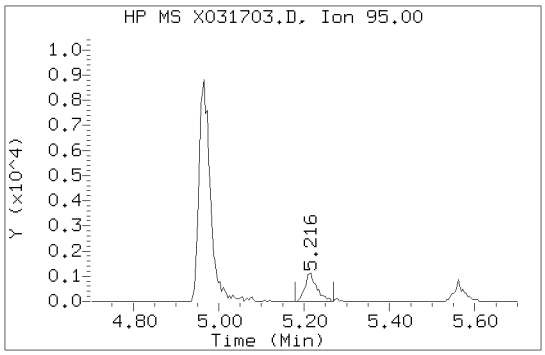
BEFORE

MASS
95
AREA
2169
HEIGHT
1117
30-Mar-2023
12:33
linh
pham



AFTER

MASS
95
AREA
2169
HEIGHT
1117
30-Mar-2023
12:41
linh
pham



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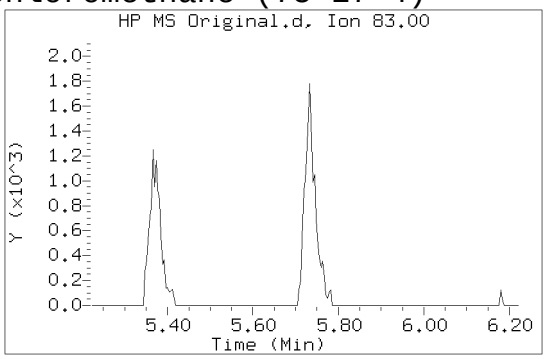
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

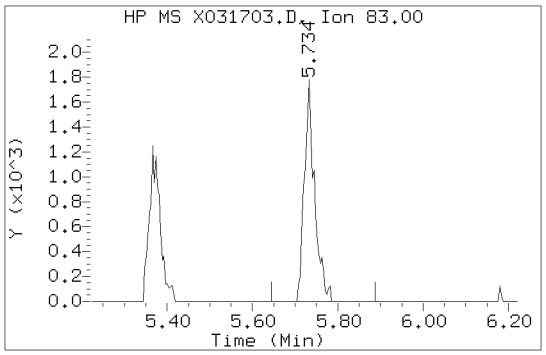
Bromodichloromethane (75-27-4)

Reason Code:

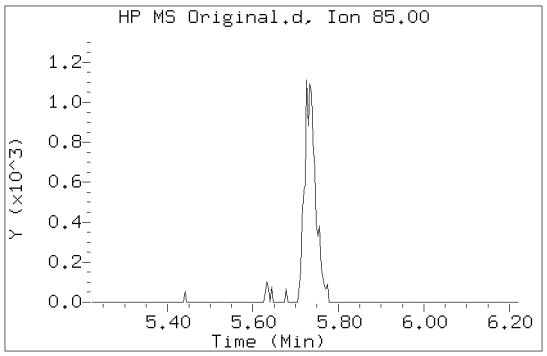
BEFORE
MASS
83
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



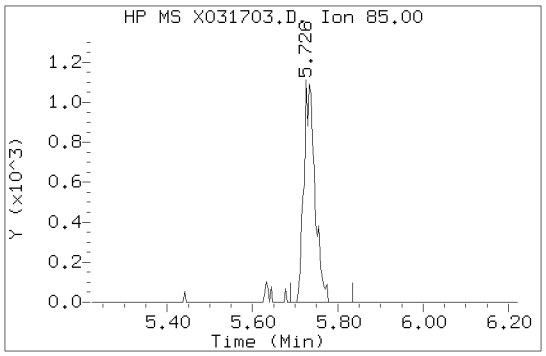
AFTER
MASS
83
AREA
3021
HEIGHT
1780
30-Mar-2023
12:41
linh
pham



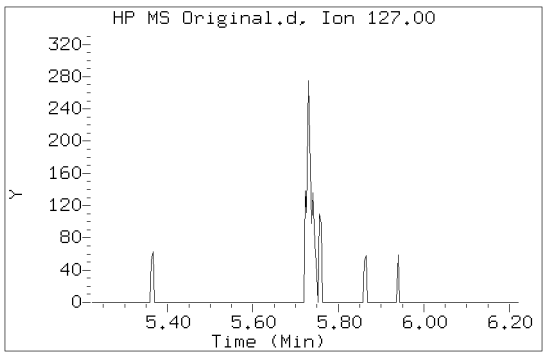
BEFORE
MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



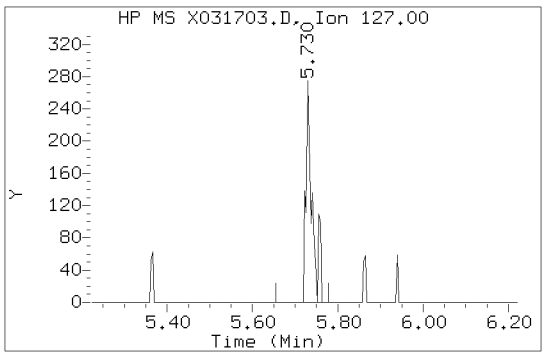
AFTER
MASS
85
AREA
2028
HEIGHT
1112
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
127
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



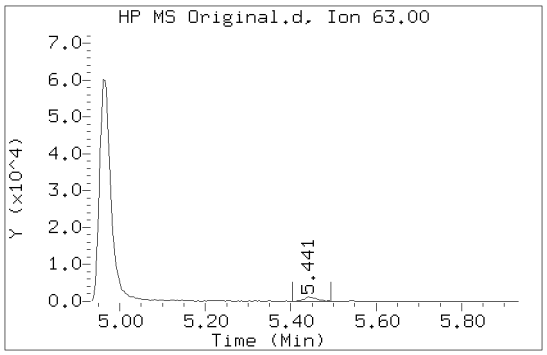
AFTER
MASS
127
AREA
290
HEIGHT
275
30-Mar-2023
12:41
linh
pham



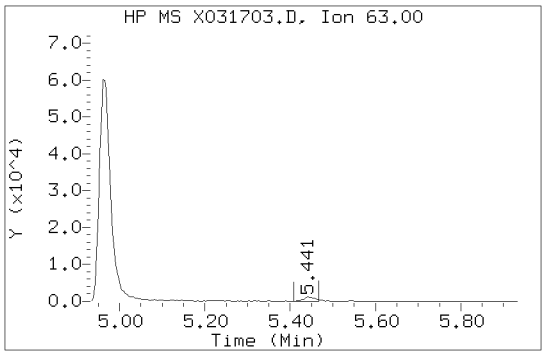
1,2-Dichloropropane (78-87-5)

Reason Code:

BEFORE
MASS
63
AREA
2510
HEIGHT
1296
30-Mar-2023
12:33
linh
pham



AFTER
MASS
63
AREA
2264
HEIGHT
1296
30-Mar-2023
12:41
linh
pham



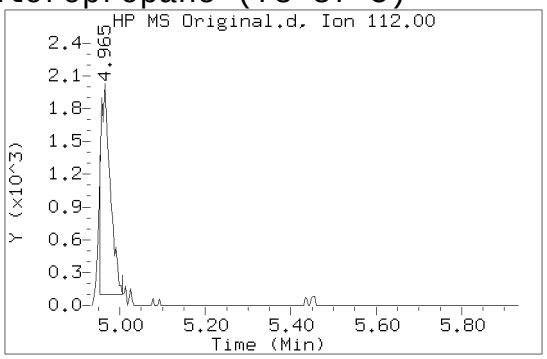
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,2-Dichloropropane (78-87-5)

Reason Code:

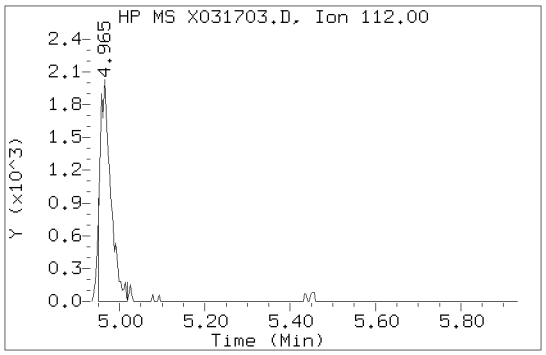
BEFORE

MASS
112
AREA
2946
HEIGHT
1928
30-Mar-2023
12:33
linh
pham



AFTER

MASS
112
AREA
3522
HEIGHT
2028
30-Mar-2023
12:41
linh
pham

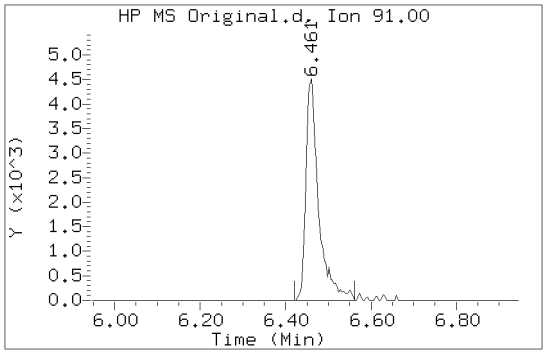


Toluene (108-88-3)

Reason Code:

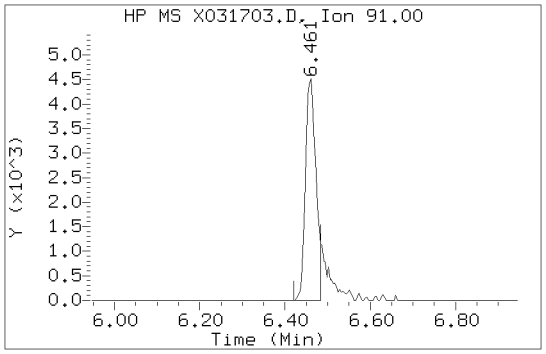
BEFORE

MASS
91
AREA
9464
HEIGHT
4516
30-Mar-2023
12:33
linh
pham



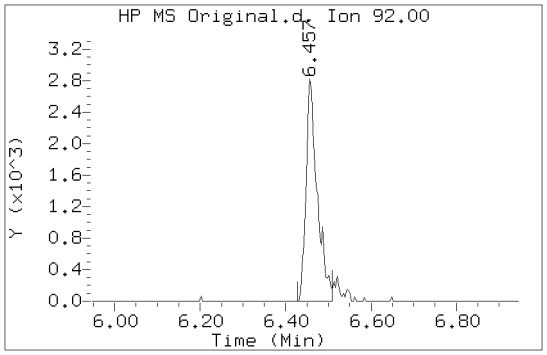
AFTER

MASS
91
AREA
7835
HEIGHT
4516
30-Mar-2023
12:41
linh
pham



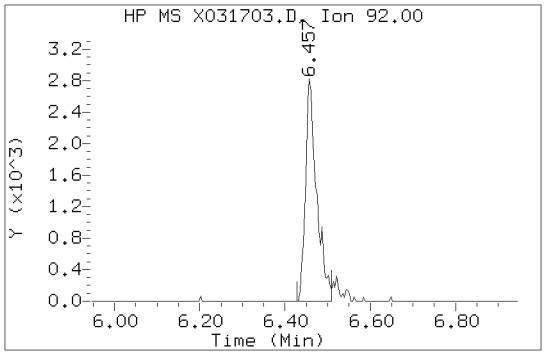
BEFORE

MASS
92
AREA
5186
HEIGHT
2823
30-Mar-2023
12:33
linh
pham



AFTER

MASS
92
AREA
5186
HEIGHT
2823
30-Mar-2023
12:41
linh
pham

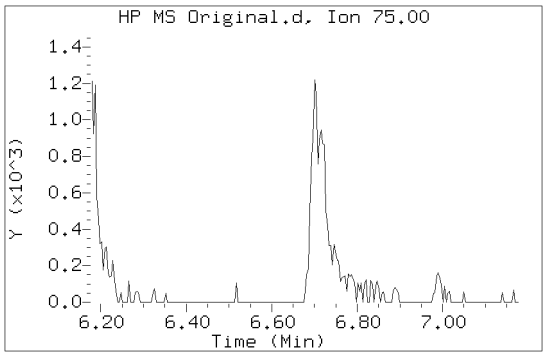


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

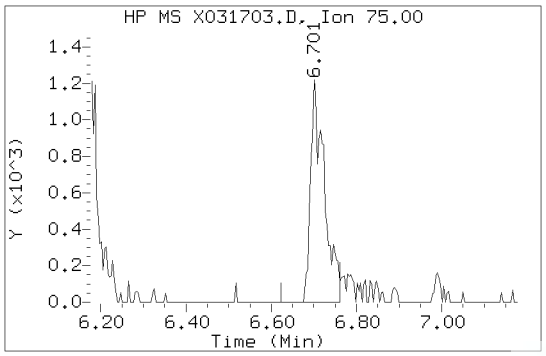
BEFORE

MASS
75
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
75
AREA
2740
HEIGHT
1219
30-Mar-2023
12:41
linh
pham



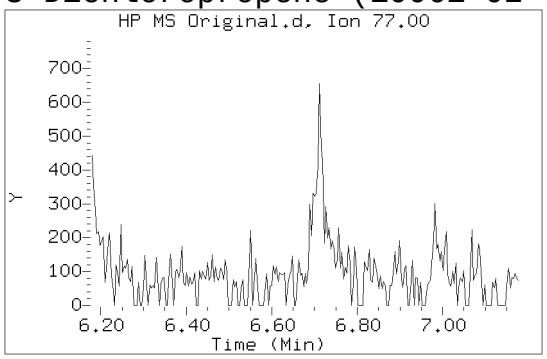
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

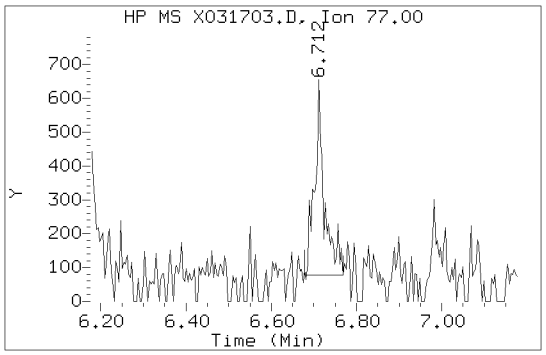
BEFORE

MASS
77
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



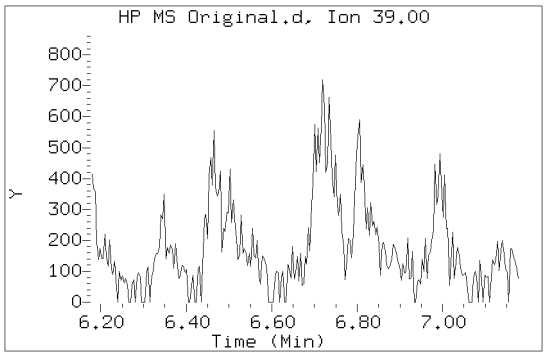
AFTER

MASS
77
AREA
910
HEIGHT
578
30-Mar-2023
12:41
linh
pham



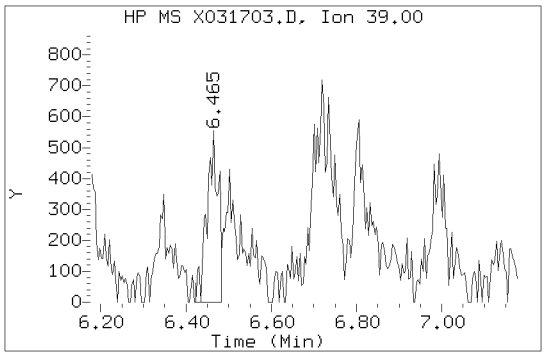
BEFORE

MASS
39
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
39
AREA
1026
HEIGHT
555
30-Mar-2023
12:41
linh
pham

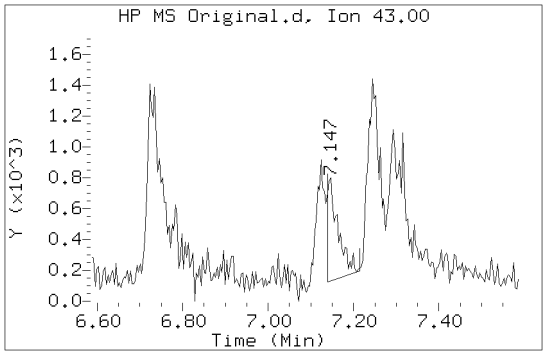


2-Hexanone (591-78-6)

Reason Code:

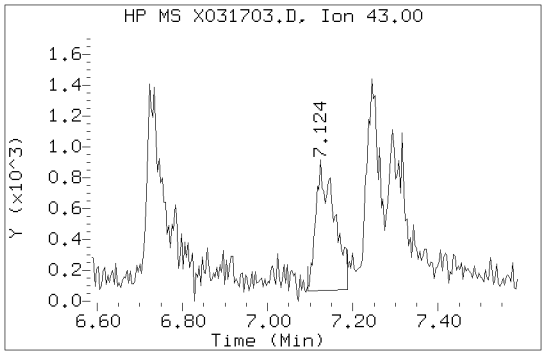
BEFORE

MASS
43
AREA
1168
HEIGHT
670
30-Mar-2023
12:33
linh
pham



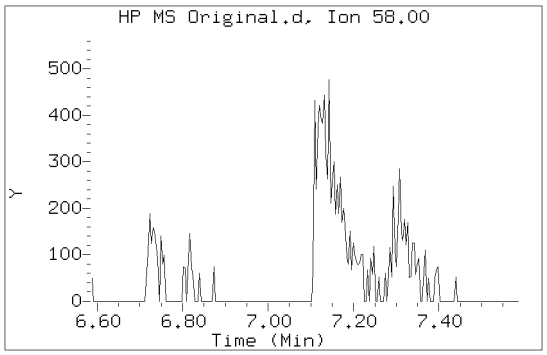
AFTER

MASS
43
AREA
2519
HEIGHT
845
30-Mar-2023
12:41
linh
pham



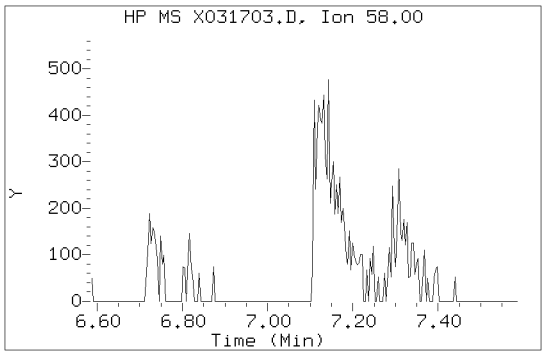
BEFORE

MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



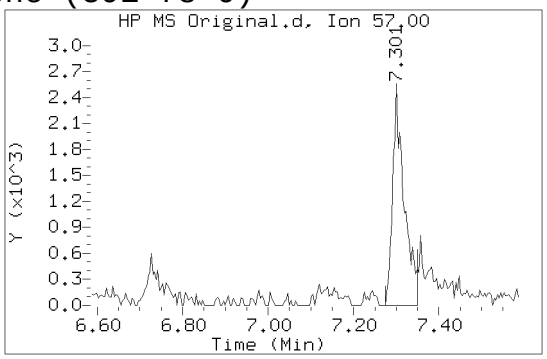
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

2-Hexanone (591-78-6)

Reason Code:

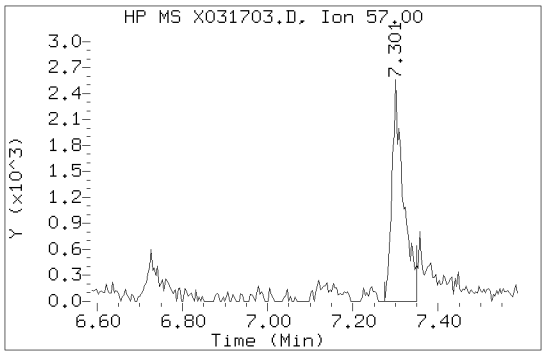
BEFORE

MASS
57
AREA
4771
HEIGHT
2561
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
4771
HEIGHT
2561
30-Mar-2023
12:41
linh
pham

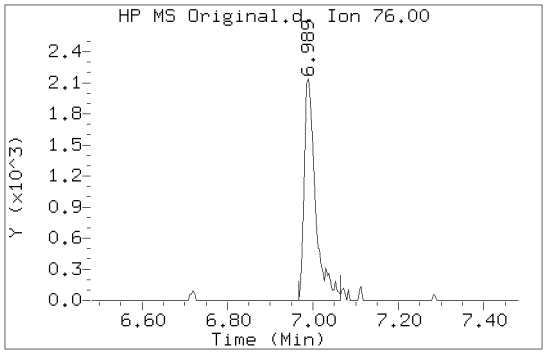


1,3-Dichloropropane (142-28-9)

Reason Code:

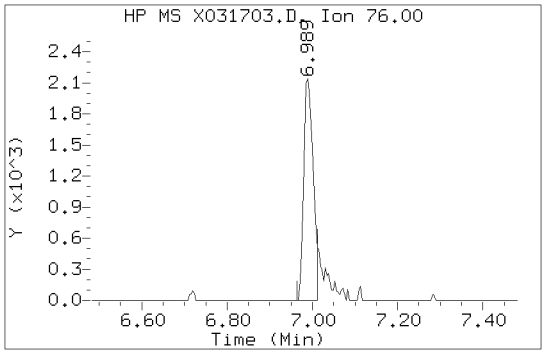
BEFORE

MASS
76
AREA
4020
HEIGHT
2140
30-Mar-2023
12:33
linh
pham



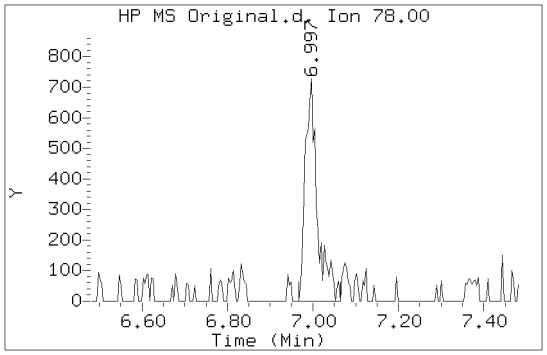
AFTER

MASS
76
AREA
3374
HEIGHT
2140
30-Mar-2023
12:41
linh
pham



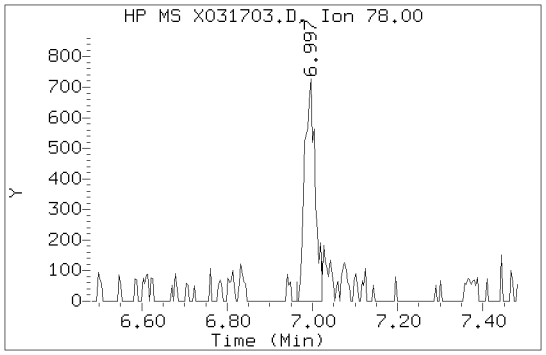
BEFORE

MASS
78
AREA
1457
HEIGHT
727
30-Mar-2023
12:33
linh
pham



AFTER

MASS
78
AREA
1252
HEIGHT
727
30-Mar-2023
12:41
linh
pham

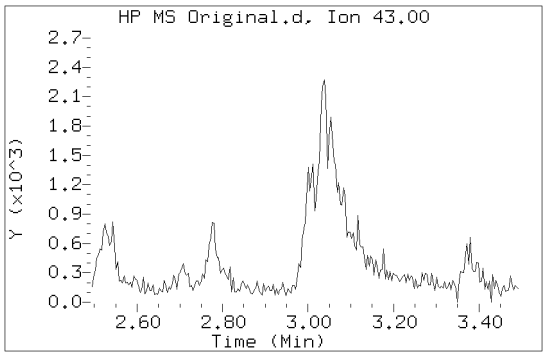


Vinyl Acetate (108-05-4)

Reason Code:

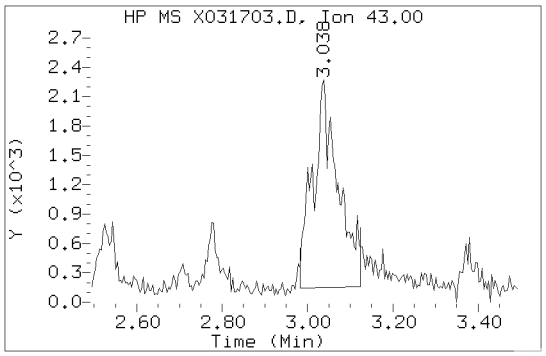
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
AREA
8761
HEIGHT
2120
30-Mar-2023
12:41
linh
pham



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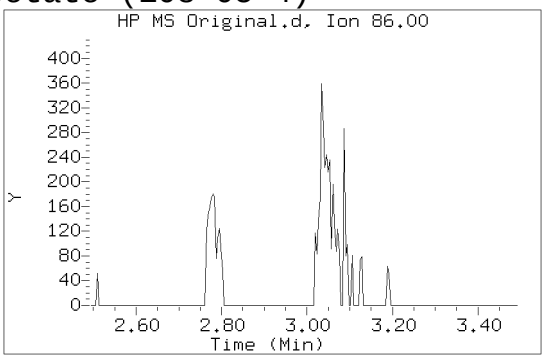
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Vinyl Acetate (108-05-4)

Reason Code:

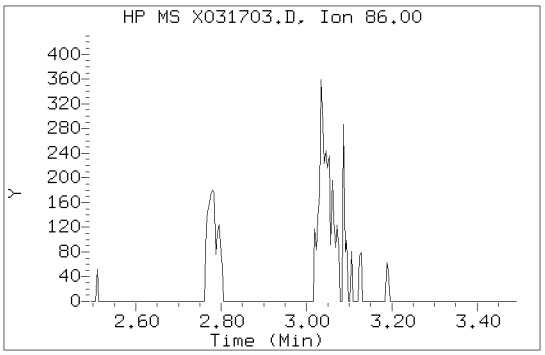
BEFORE

MASS
86
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
86
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

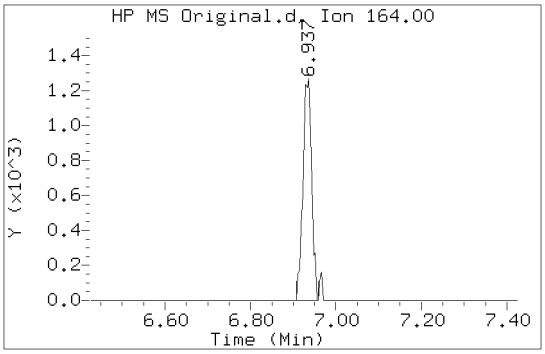


Tetrachloroethene (127-18-4)

Reason Code:

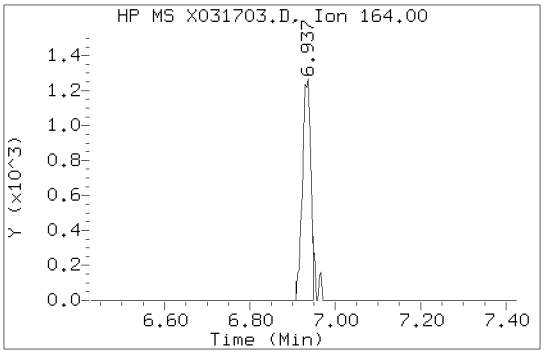
BEFORE

MASS
164
AREA
1838
HEIGHT
1268
30-Mar-2023
12:33
linh
pham



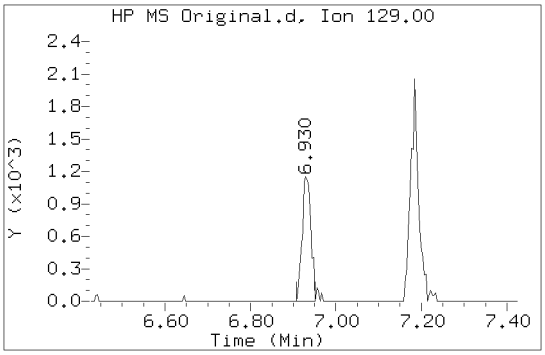
AFTER

MASS
164
AREA
1777
HEIGHT
1268
30-Mar-2023
12:41
linh
pham



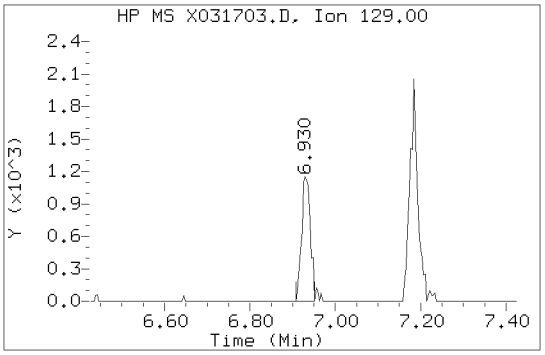
BEFORE

MASS
129
AREA
1687
HEIGHT
1152
30-Mar-2023
12:33
linh
pham



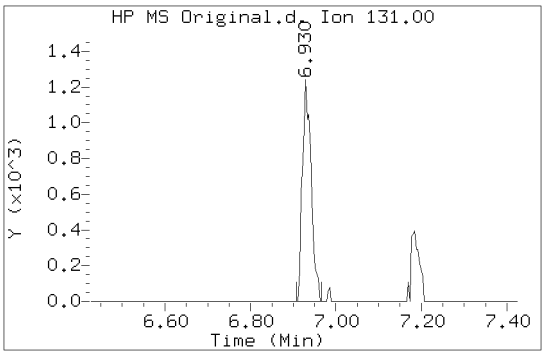
AFTER

MASS
129
AREA
1687
HEIGHT
1152
30-Mar-2023
12:41
linh
pham



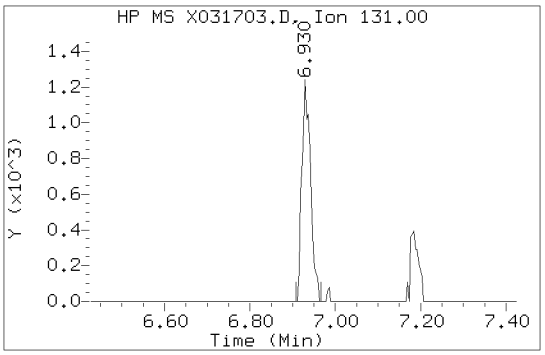
BEFORE

MASS
131
AREA
1803
HEIGHT
1241
30-Mar-2023
12:33
linh
pham



AFTER

MASS
131
AREA
1803
HEIGHT
1241
30-Mar-2023
12:41
linh
pham



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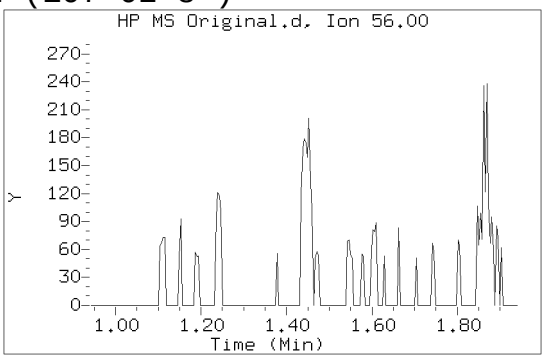
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

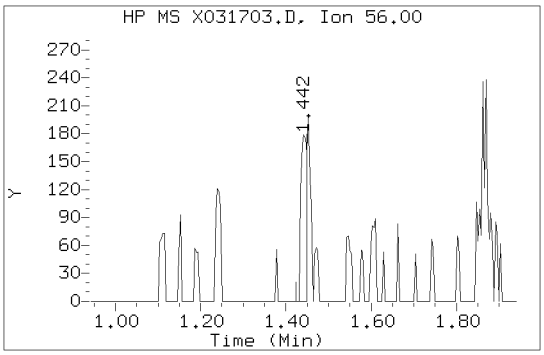
Acrolein (107-02-8)

Reason Code:

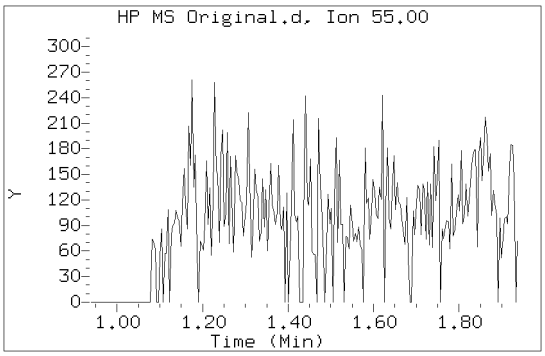
BEFORE
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



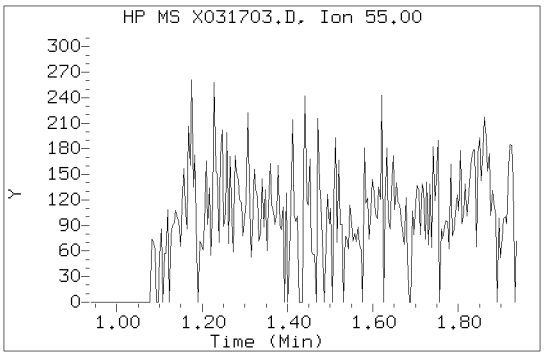
AFTER
MASS
56
AREA
179
HEIGHT
179
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



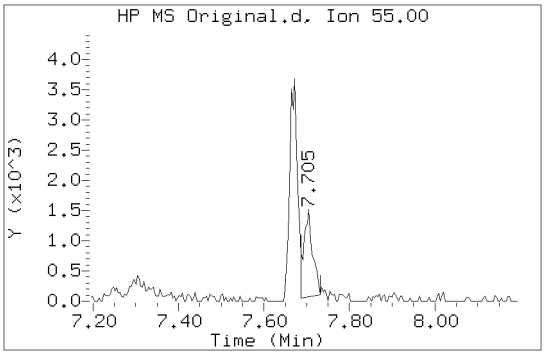
AFTER
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



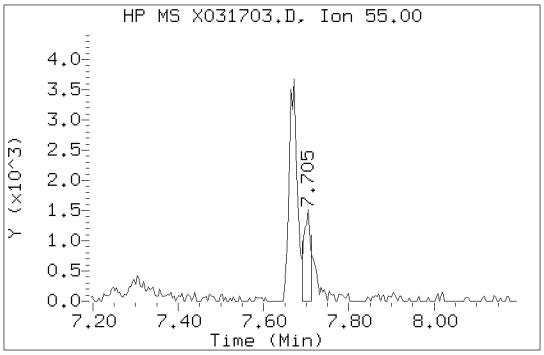
1-Chlorohexane (544-10-5)

Reason Code:

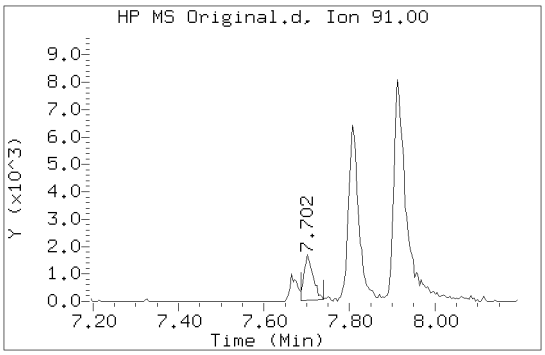
BEFORE
MASS
55
AREA
2152
HEIGHT
1452
30-Mar-2023
12:33
linh
pham



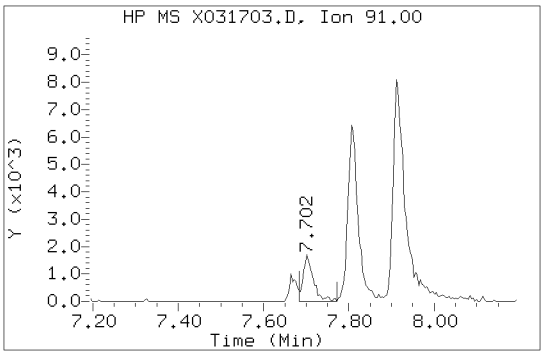
AFTER
MASS
55
AREA
1701
HEIGHT
1525
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
91
AREA
2461
HEIGHT
1668
30-Mar-2023
12:33
linh
pham



AFTER
MASS
91
AREA
2906
HEIGHT
1713
30-Mar-2023
12:41
linh
pham



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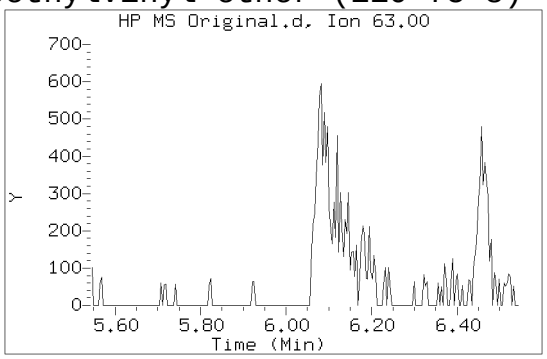
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

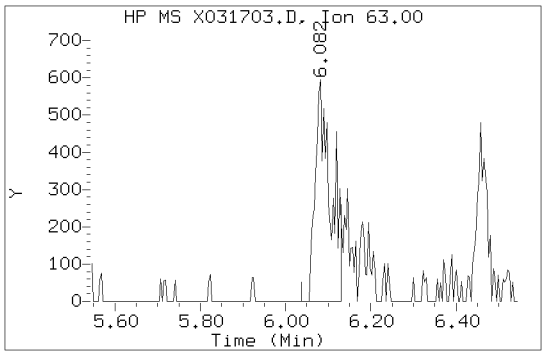
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

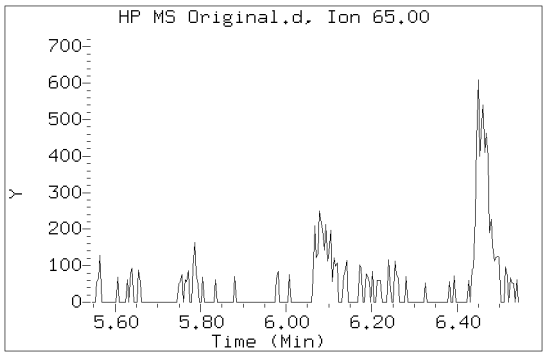
BEFORE
MASS
63
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



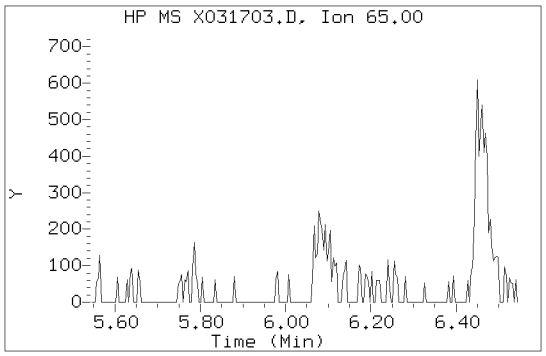
AFTER
MASS
63
AREA
1463
HEIGHT
595
30-Mar-2023
12:41
linh
pham



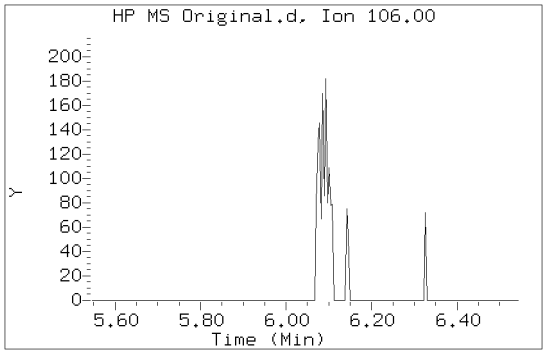
BEFORE
MASS
65
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



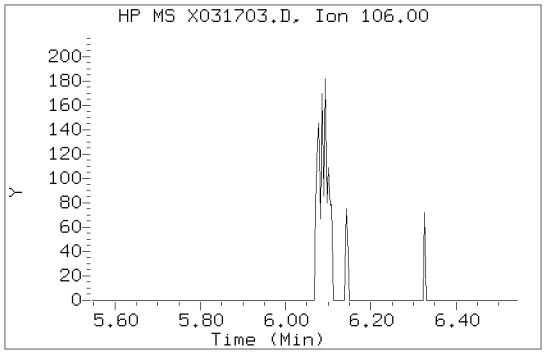
AFTER
MASS
65
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
106
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



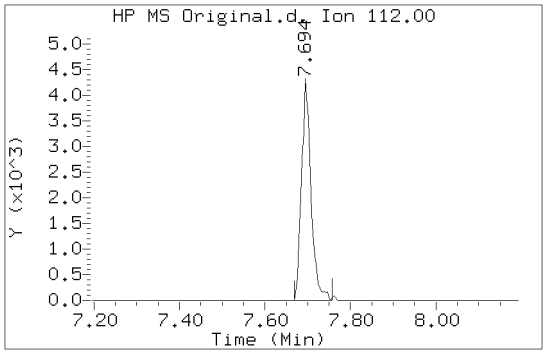
AFTER
MASS
106
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



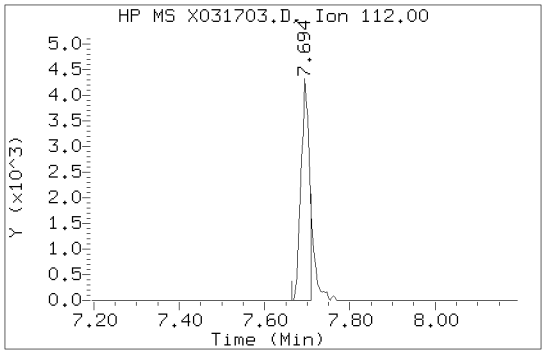
Chlorobenzene (108-90-7)

Reason Code:

BEFORE
MASS
112
AREA
6857
HEIGHT
4318
30-Mar-2023
12:33
linh
pham



AFTER
MASS
112
AREA
5868
HEIGHT
4318
30-Mar-2023
12:41
linh
pham



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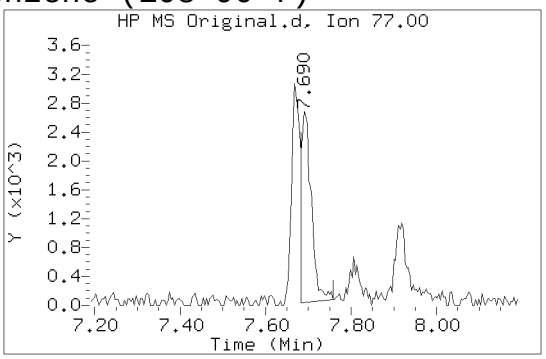
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Chlorobenzene (108-90-7)

Reason Code:

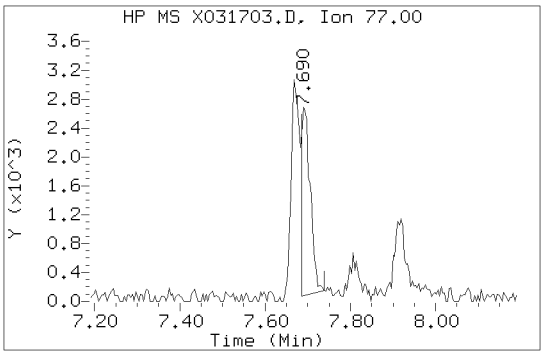
BEFORE

MASS
77
AREA
4396
HEIGHT
2653
30-Mar-2023
12:33
linh
pham



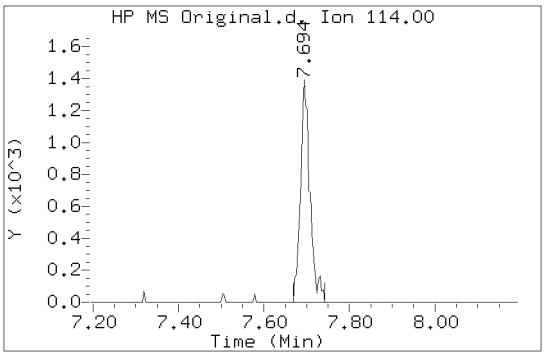
AFTER

MASS
77
AREA
3627
HEIGHT
2613
30-Mar-2023
12:41
linh
pham



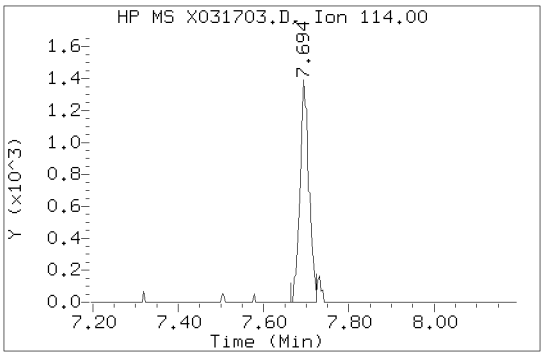
BEFORE

MASS
114
AREA
2201
HEIGHT
1392
30-Mar-2023
12:33
linh
pham



AFTER

MASS
114
AREA
2102
HEIGHT
1392
30-Mar-2023
12:41
linh
pham

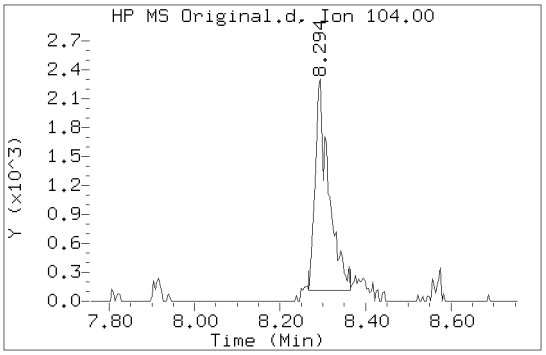


Styrene (100-42-5)

Reason Code:

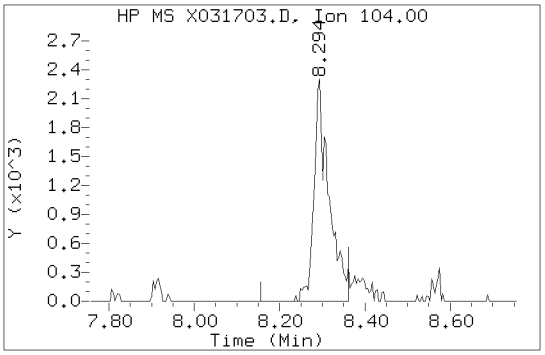
BEFORE

MASS
104
AREA
4816
HEIGHT
2195
30-Mar-2023
12:33
linh
pham



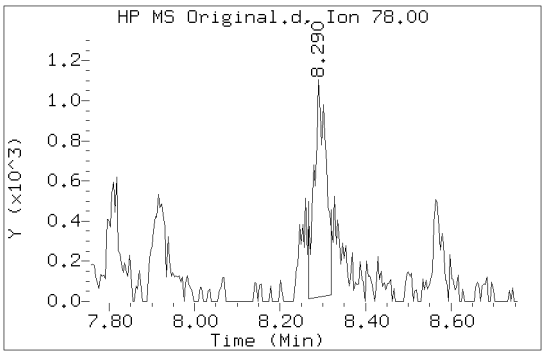
AFTER

MASS
104
AREA
5629
HEIGHT
2306
30-Mar-2023
12:41
linh
pham



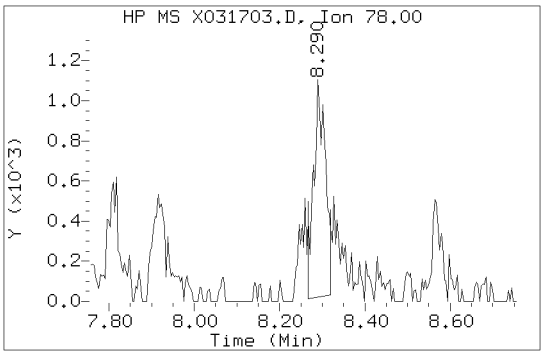
BEFORE

MASS
78
AREA
2108
HEIGHT
1083
30-Mar-2023
12:33
linh
pham



AFTER

MASS
78
AREA
2108
HEIGHT
1083
30-Mar-2023
12:41
linh
pham



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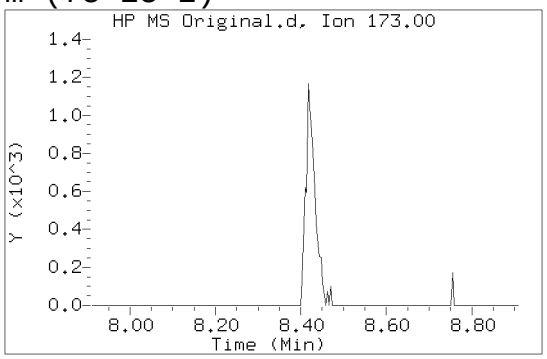
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Bromoform (75-25-2)

Reason Code:

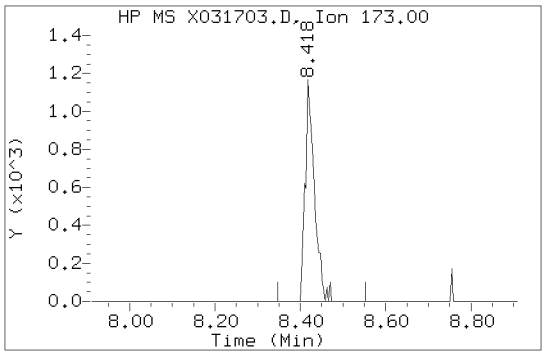
BEFORE

MASS
173
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



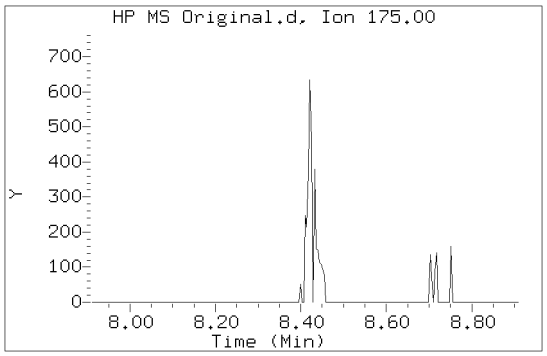
AFTER

MASS
173
AREA
1781
HEIGHT
1167
30-Mar-2023
12:41
linh
pham



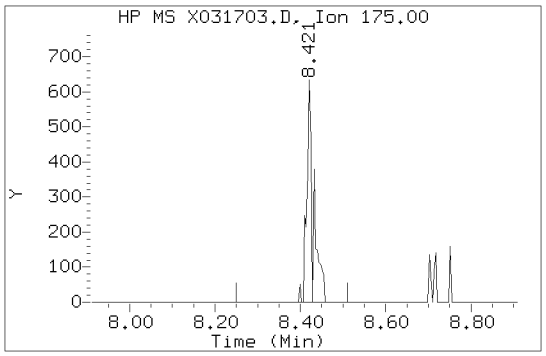
BEFORE

MASS
175
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



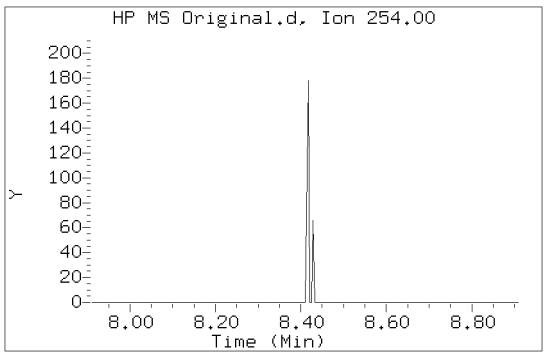
AFTER

MASS
175
AREA
685
HEIGHT
634
30-Mar-2023
12:41
linh
pham



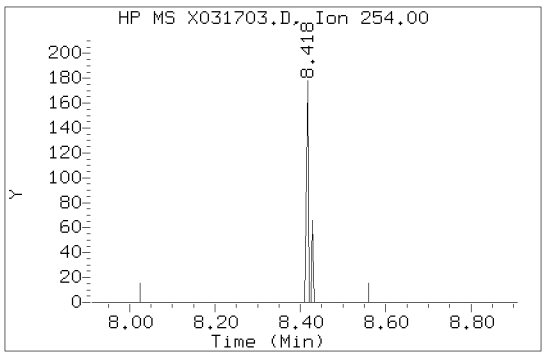
BEFORE

MASS
254
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
254
AREA
70
HEIGHT
178
30-Mar-2023
12:41
linh
pham

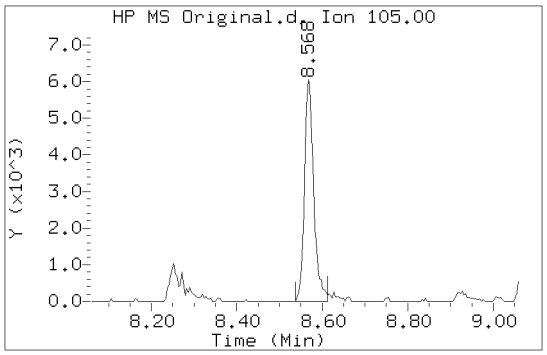


Isopropylbenzene (98-82-8)

Reason Code:

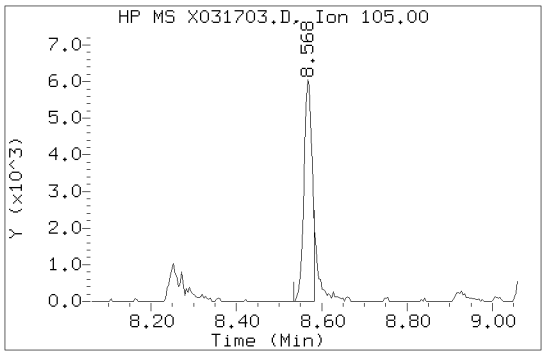
BEFORE

MASS
105
AREA
9286
HEIGHT
6052
30-Mar-2023
12:33
linh
pham



AFTER

MASS
105
AREA
8191
HEIGHT
6052
30-Mar-2023
12:41
linh
pham



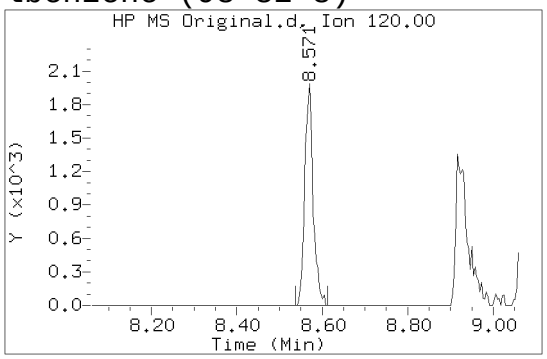
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Isopropylbenzene (98-82-8)

Reason Code:

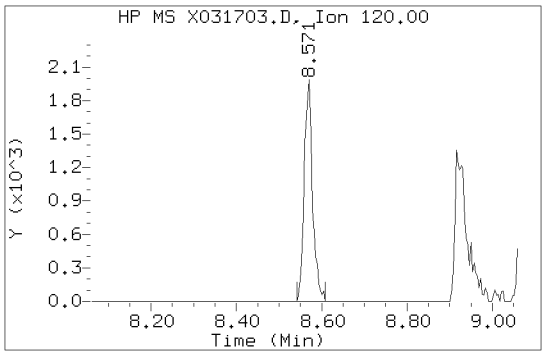
BEFORE

MASS
120
AREA
2761
HEIGHT
1988
30-Mar-2023
12:33
linh
pham



AFTER

MASS
120
AREA
2761
HEIGHT
1988
30-Mar-2023
12:41
linh
pham

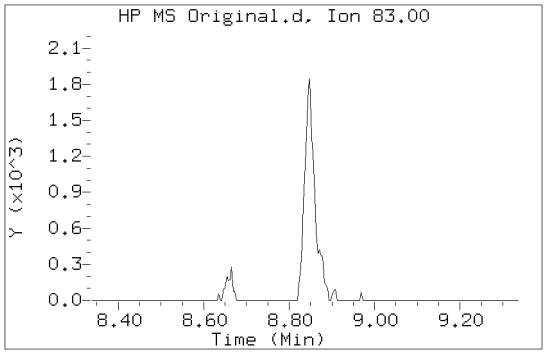


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

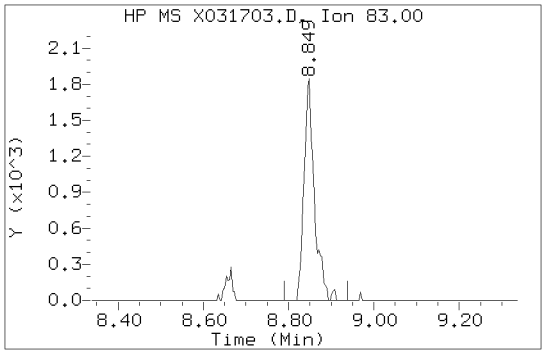
BEFORE

MASS
83
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



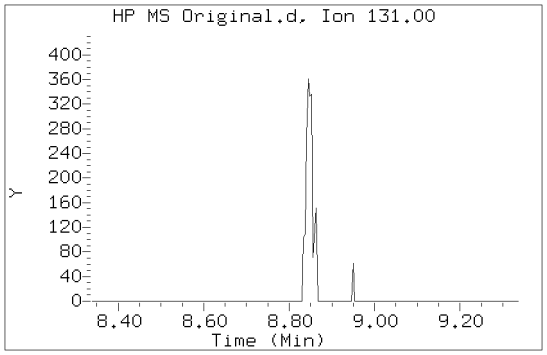
AFTER

MASS
83
AREA
3141
HEIGHT
1846
30-Mar-2023
12:41
linh
pham



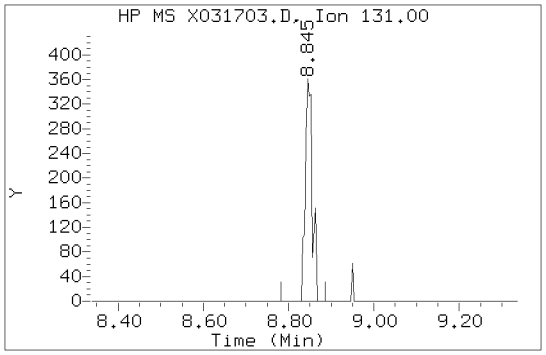
BEFORE

MASS
131
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



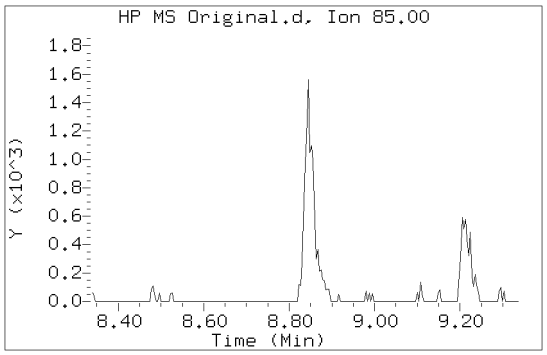
AFTER

MASS
131
AREA
415
HEIGHT
361
30-Mar-2023
12:41
linh
pham



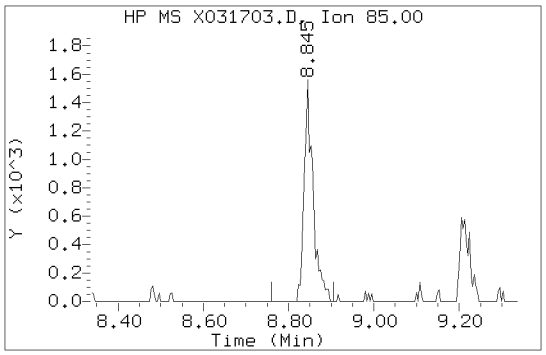
BEFORE

MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
85
AREA
2273
HEIGHT
1562
30-Mar-2023
12:41
linh
pham



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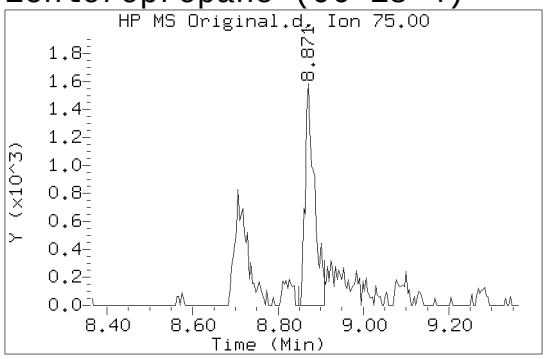
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,2,3-Trichloropropane (96-18-4)

Reason Code:

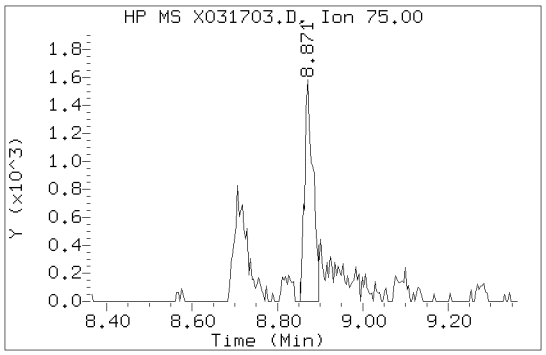
BEFORE

MASS
75
AREA
2415
HEIGHT
1584
30-Mar-2023
12:33
linh
pham



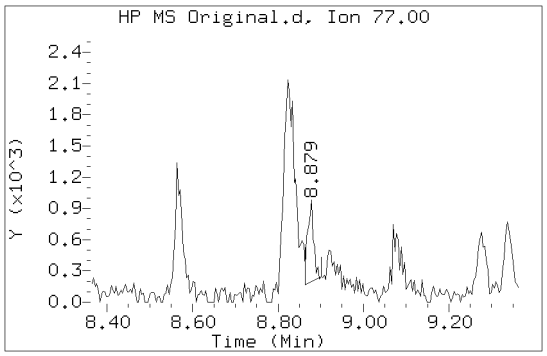
AFTER

MASS
75
AREA
2211
HEIGHT
1584
30-Mar-2023
12:41
linh
pham



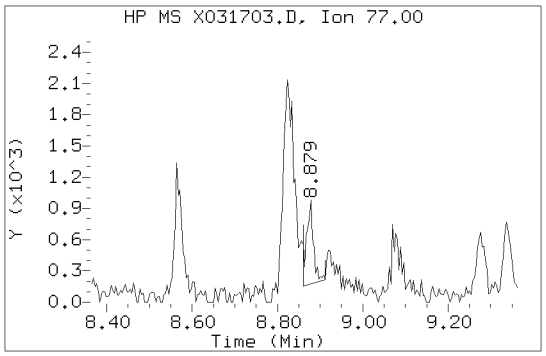
BEFORE

MASS
77
AREA
763
HEIGHT
780
30-Mar-2023
12:33
linh
pham



AFTER

MASS
77
AREA
945
HEIGHT
806
30-Mar-2023
12:41
linh
pham

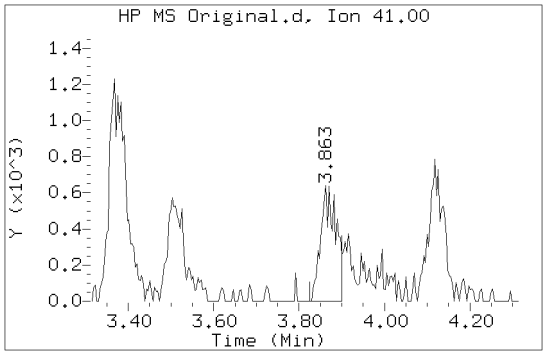


Methacrylonitrile (126-98-7)

Reason Code:

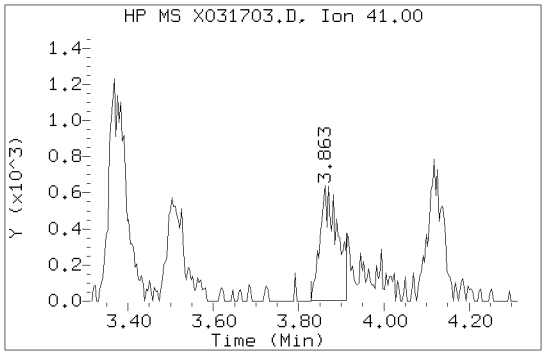
BEFORE

MASS
41
AREA
1593
HEIGHT
639
30-Mar-2023
12:33
linh
pham



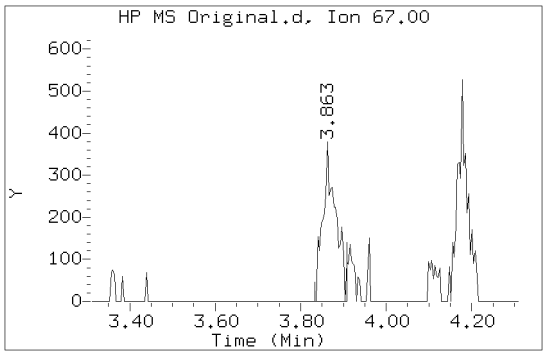
AFTER

MASS
41
AREA
1764
HEIGHT
634
30-Mar-2023
12:41
linh
pham



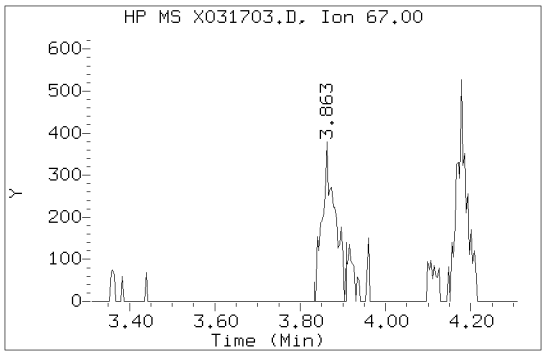
BEFORE

MASS
67
AREA
804
HEIGHT
379
30-Mar-2023
12:33
linh
pham



AFTER

MASS
67
AREA
804
HEIGHT
379
30-Mar-2023
12:41
linh
pham



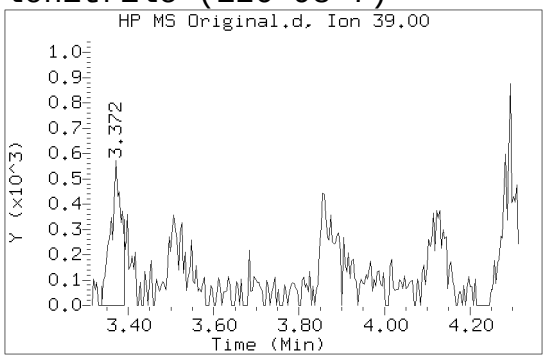
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Methacrylonitrile (126-98-7)

Reason Code:

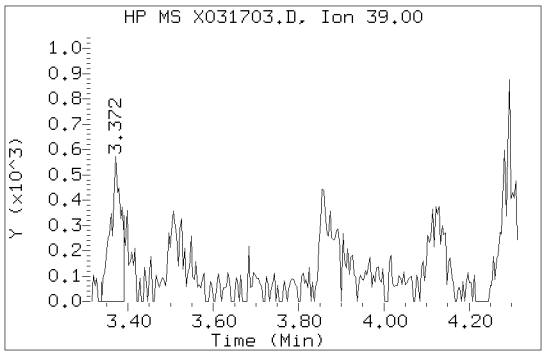
BEFORE

MASS
39
AREA
985
HEIGHT
573
30-Mar-2023
12:33
linh
pham



AFTER

MASS
39
AREA
985
HEIGHT
573
30-Mar-2023
12:41
linh
pham

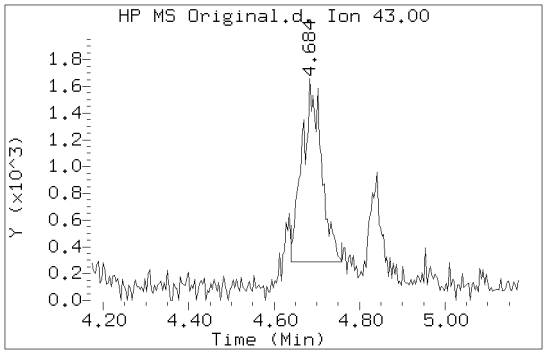


Isobutyl Alcohol (78-83-1)

Reason Code:

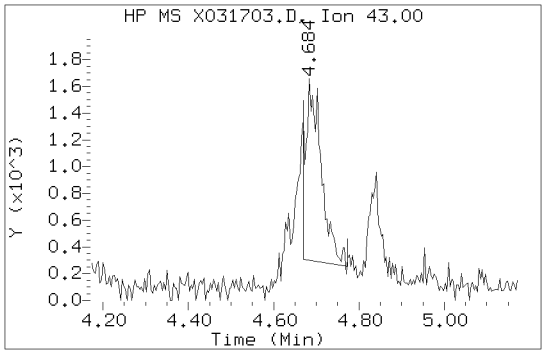
BEFORE

MASS
43
AREA
4301
HEIGHT
1369
30-Mar-2023
12:33
linh
pham



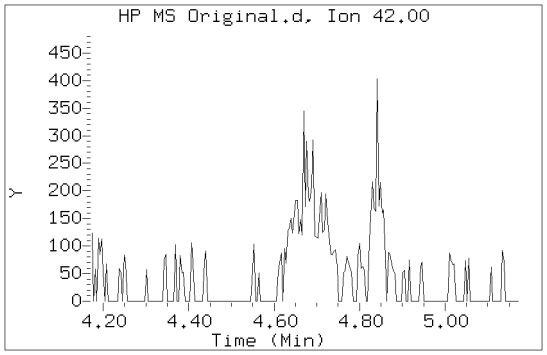
AFTER

MASS
43
AREA
3536
HEIGHT
1356
30-Mar-2023
12:41
linh
pham



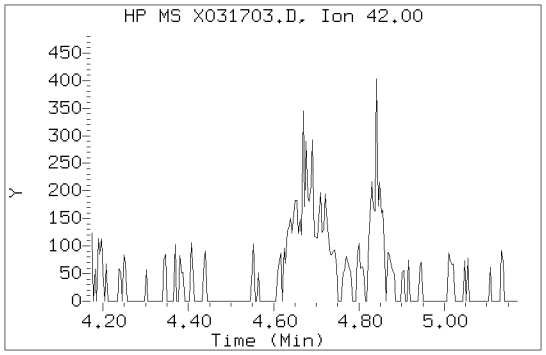
BEFORE

MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



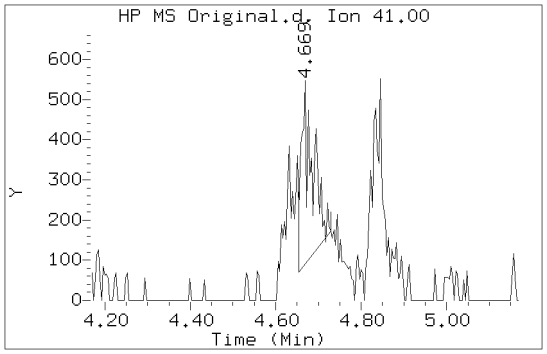
AFTER

MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



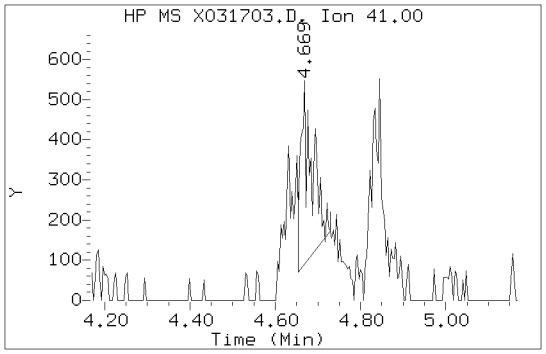
BEFORE

MASS
41
AREA
854
HEIGHT
456
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
854
HEIGHT
456
30-Mar-2023
12:41
linh
pham



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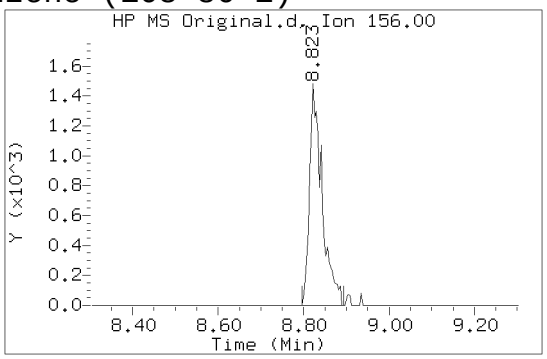
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

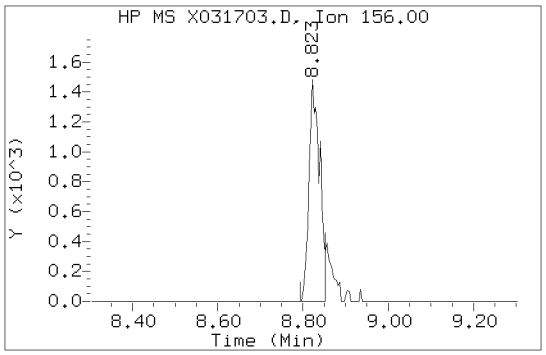
Bromobenzene (108-86-1)

Reason Code:

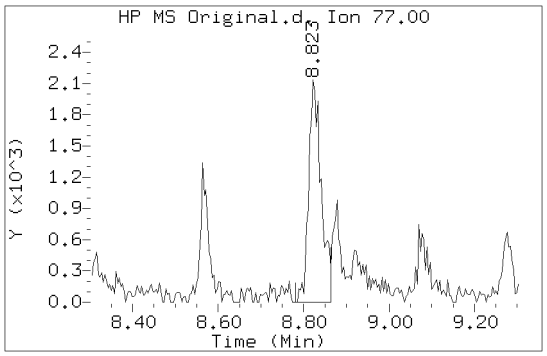
BEFORE
MASS
156
AREA
3020
HEIGHT
1482
30-Mar-2023
12:33
linh
pham



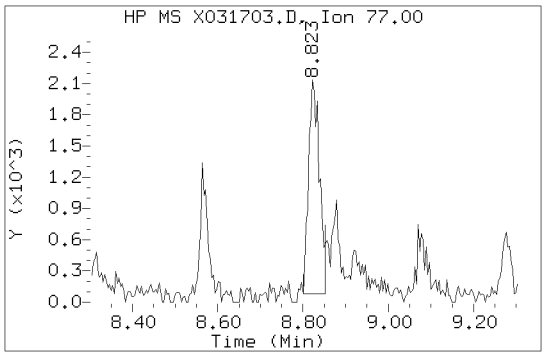
AFTER
MASS
156
AREA
2604
HEIGHT
1482
30-Mar-2023
12:41
linh
pham



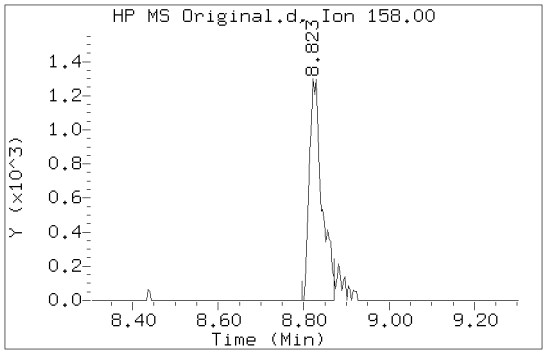
BEFORE
MASS
77
AREA
4369
HEIGHT
2135
30-Mar-2023
12:33
linh
pham



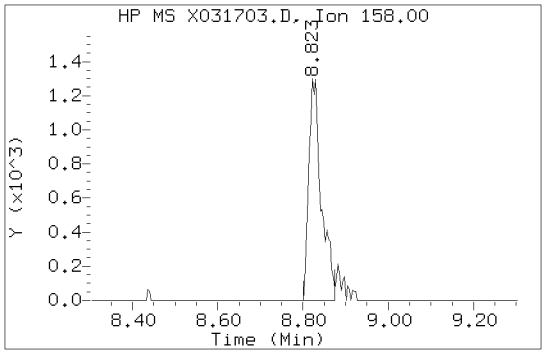
AFTER
MASS
77
AREA
3655
HEIGHT
2052
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
158
AREA
2647
HEIGHT
1300
30-Mar-2023
12:33
linh
pham



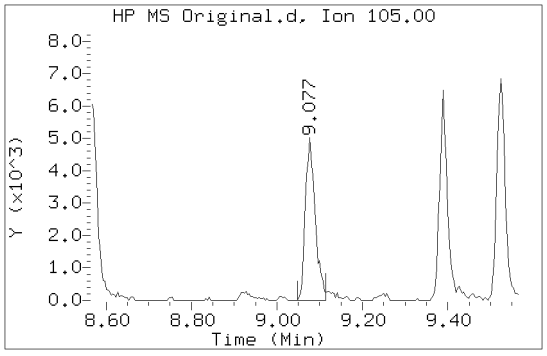
AFTER
MASS
158
AREA
2662
HEIGHT
1300
30-Mar-2023
12:41
linh
pham



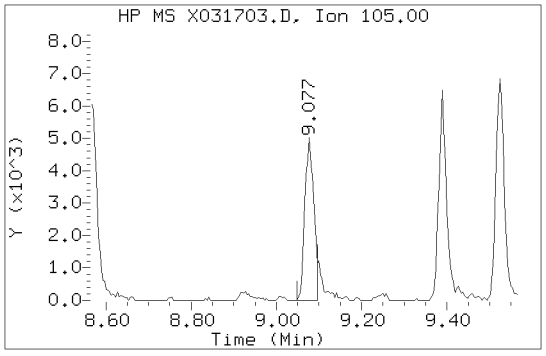
1,3,5-Trimethylbenzene (108-67-8)

Reason Code:

BEFORE
MASS
105
AREA
8079
HEIGHT
5018
30-Mar-2023
12:33
linh
pham



AFTER
MASS
105
AREA
7357
HEIGHT
5018
30-Mar-2023
12:41
linh
pham



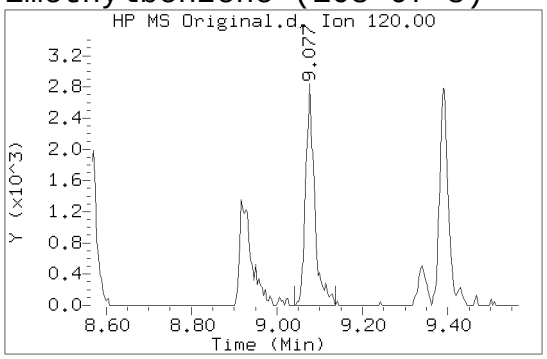
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,3,5-Trimethylbenzene (108-67-8)

Reason Code:

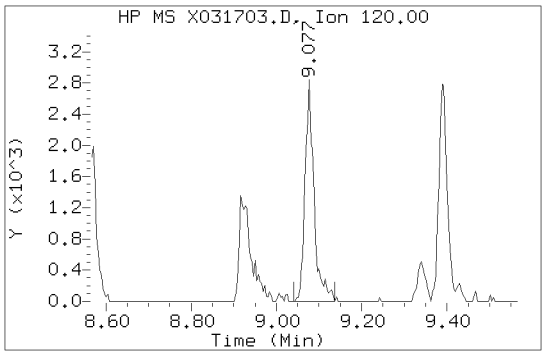
BEFORE

MASS
120
AREA
4167
HEIGHT
2842
30-Mar-2023
12:33
linh
pham



AFTER

MASS
120
AREA
4167
HEIGHT
2842
30-Mar-2023
12:41
linh
pham

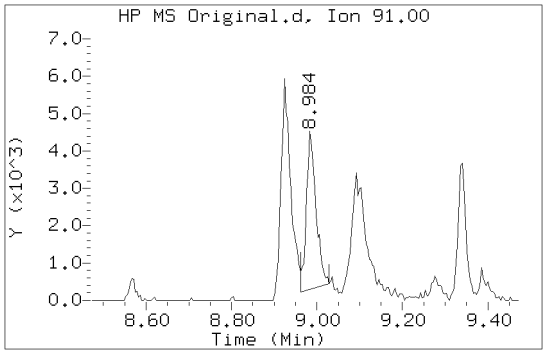


2-Chlorotoluene (95-49-8)

Reason Code:

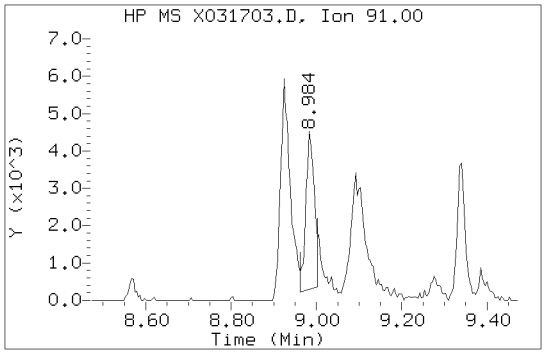
BEFORE

MASS
91
AREA
6692
HEIGHT
4231
30-Mar-2023
12:33
linh
pham



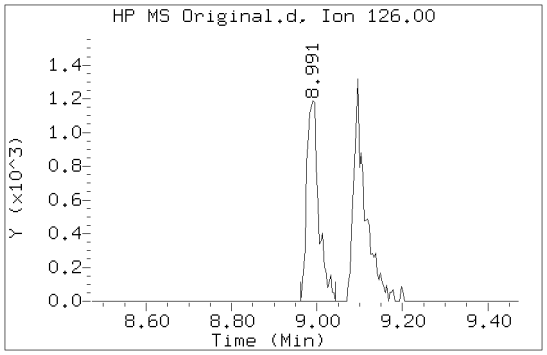
AFTER

MASS
91
AREA
5959
HEIGHT
4231
30-Mar-2023
12:41
linh
pham



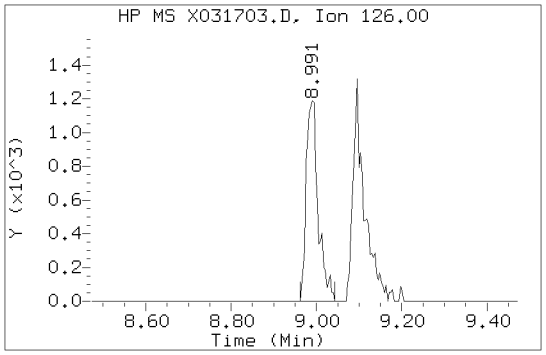
BEFORE

MASS
126
AREA
2327
HEIGHT
1189
30-Mar-2023
12:33
linh
pham



AFTER

MASS
126
AREA
2327
HEIGHT
1189
30-Mar-2023
12:41
linh
pham

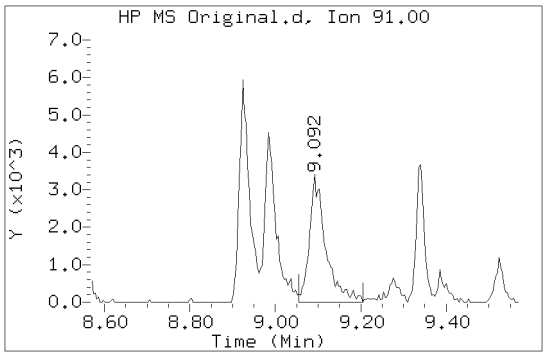


4-Chlorotoluene (106-43-4)

Reason Code:

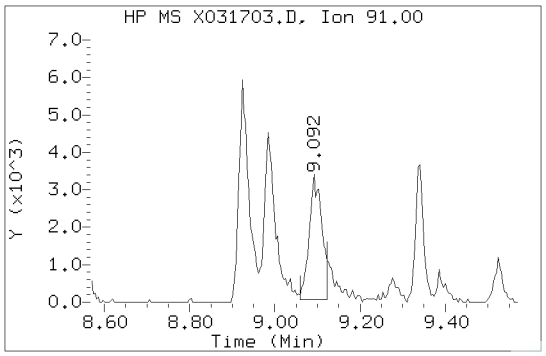
BEFORE

MASS
91
AREA
9062
HEIGHT
3419
30-Mar-2023
12:33
linh
pham



AFTER

MASS
91
AREA
6930
HEIGHT
3355
30-Mar-2023
12:41
linh
pham



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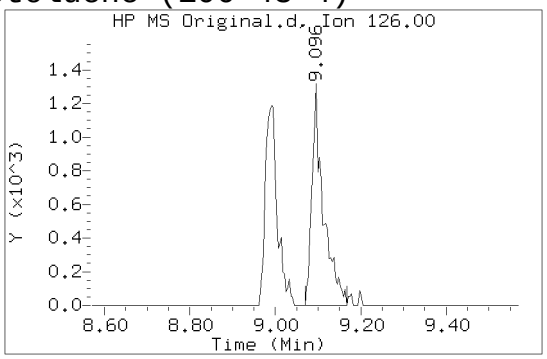
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

4-Chlorotoluene (106-43-4)

Reason Code:

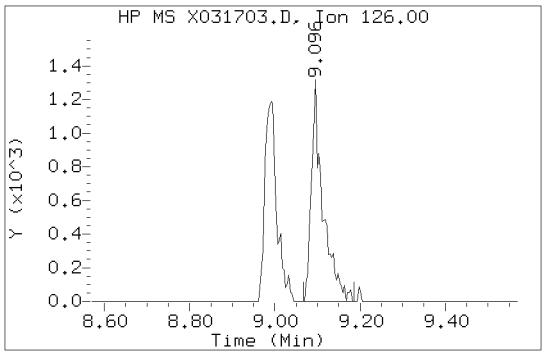
BEFORE

MASS
126
AREA
2441
HEIGHT
1318
30-Mar-2023
12:33
linh
pham



AFTER

MASS
126
AREA
2481
HEIGHT
1318
30-Mar-2023
12:41
linh
pham

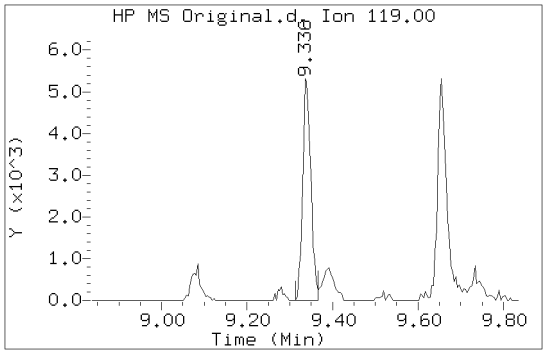


tert-Butylbenzene (98-06-6)

Reason Code:

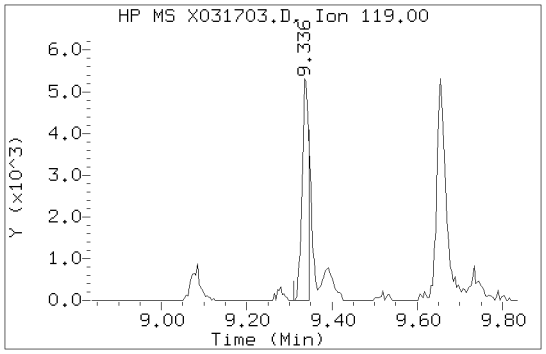
BEFORE

MASS
119
AREA
7255
HEIGHT
5313
30-Mar-2023
12:33
linh
pham



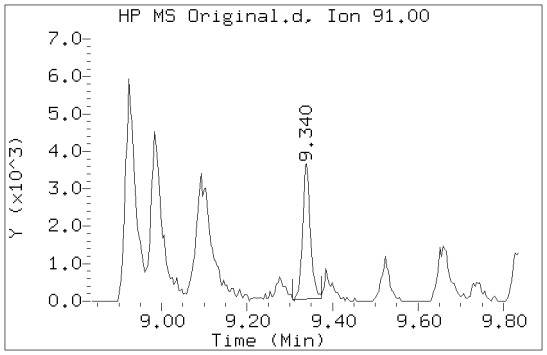
AFTER

MASS
119
AREA
5974
HEIGHT
5313
30-Mar-2023
12:41
linh
pham



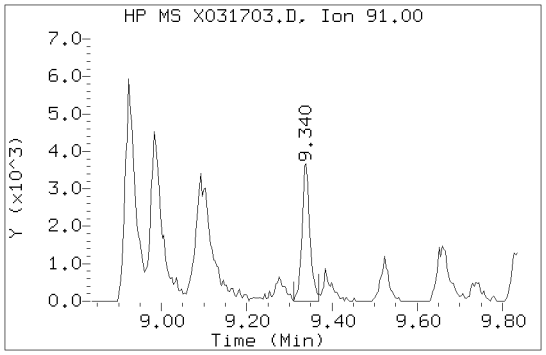
BEFORE

MASS
91
AREA
4684
HEIGHT
3604
30-Mar-2023
12:33
linh
pham



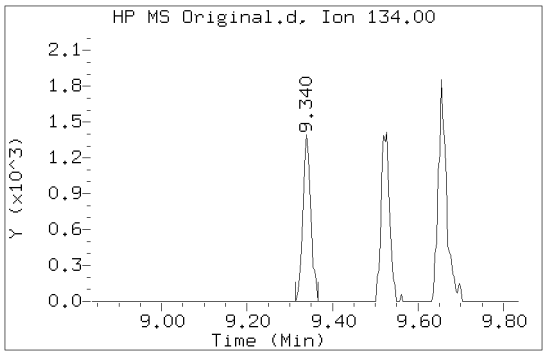
AFTER

MASS
91
AREA
4890
HEIGHT
3664
30-Mar-2023
12:41
linh
pham



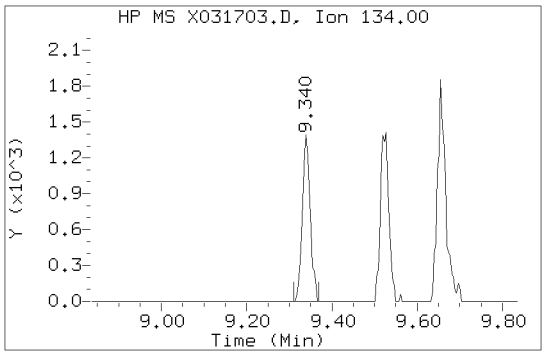
BEFORE

MASS
134
AREA
1839
HEIGHT
1394
30-Mar-2023
12:33
linh
pham



AFTER

MASS
134
AREA
1839
HEIGHT
1394
30-Mar-2023
12:41
linh
pham



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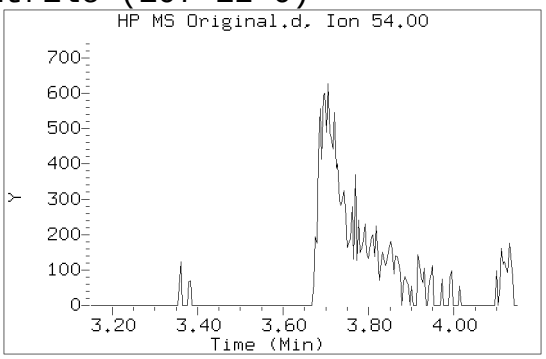
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Propionitrile (107-12-0)

Reason Code:

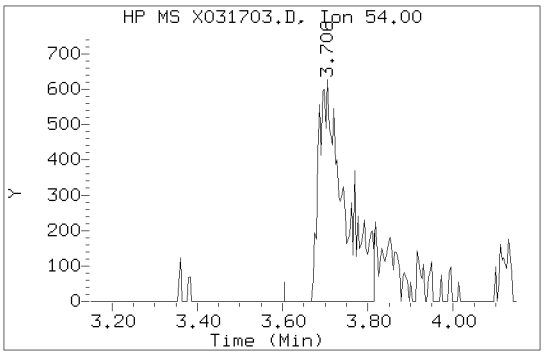
BEFORE

MASS
54
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



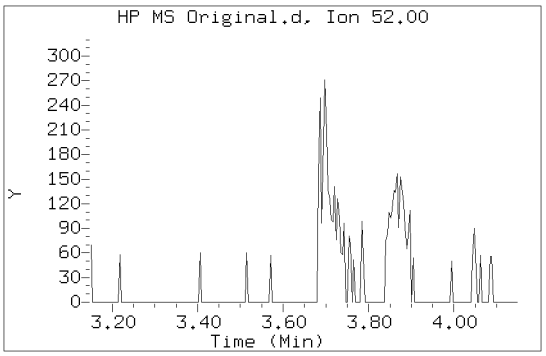
AFTER

MASS
54
AREA
2634
HEIGHT
627
30-Mar-2023
12:41
linh
pham



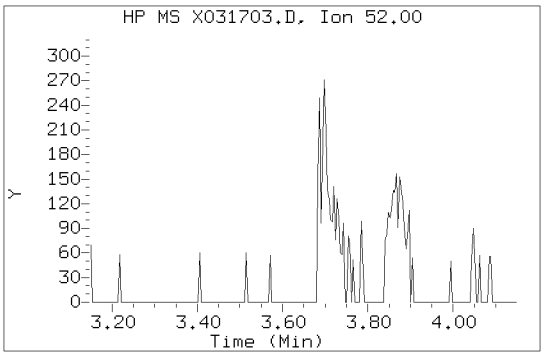
BEFORE

MASS
52
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



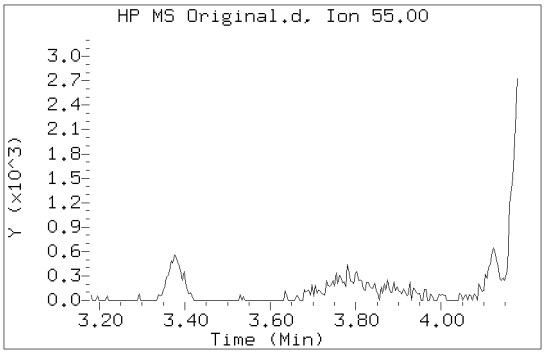
AFTER

MASS
52
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



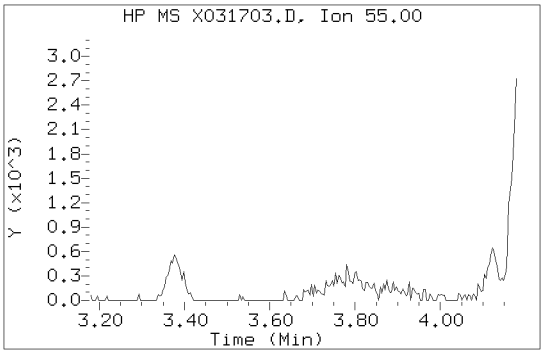
BEFORE

MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

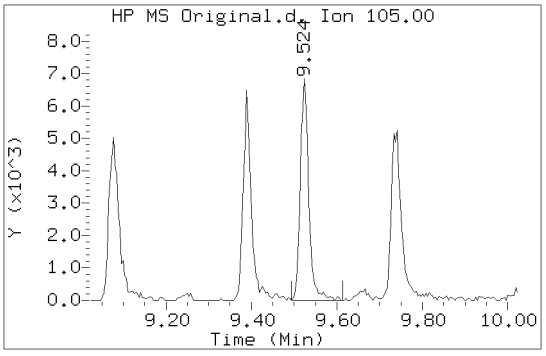


sec-Butylbenzene (135-98-8)

Reason Code:

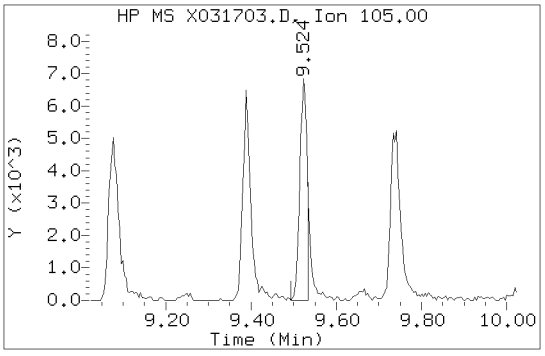
BEFORE

MASS
105
AREA
9751
HEIGHT
6842
30-Mar-2023
12:33
linh
pham



AFTER

MASS
105
AREA
8361
HEIGHT
6842
30-Mar-2023
12:41
linh
pham



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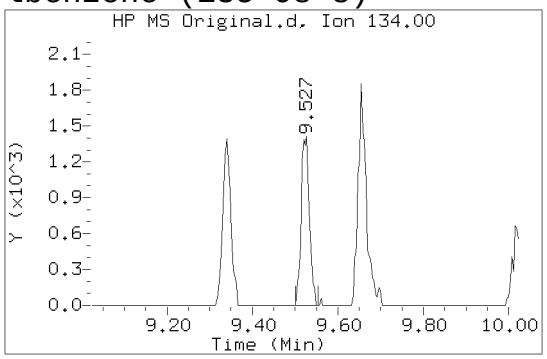
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

sec-Butylbenzene (135-98-8)

Reason Code:

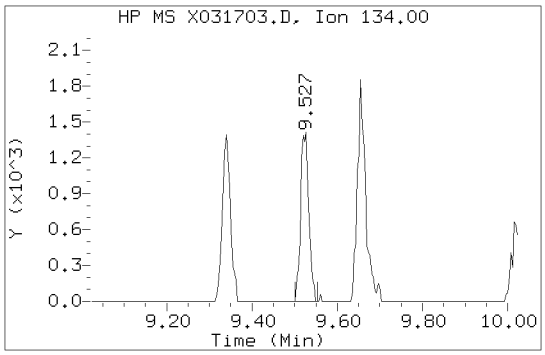
BEFORE

MASS
134
AREA
1938
HEIGHT
1416
30-Mar-2023
12:33
linh
pham



AFTER

MASS
134
AREA
1938
HEIGHT
1416
30-Mar-2023
12:41
linh
pham

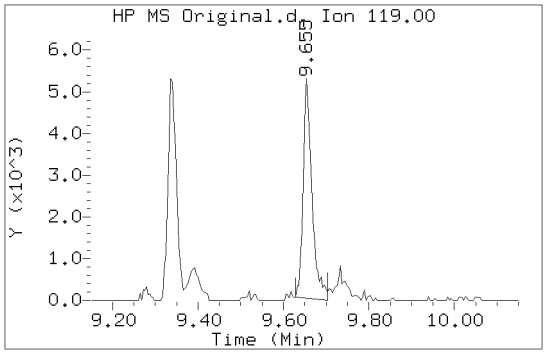


p-Isopropyltoluene (99-87-6)

Reason Code:

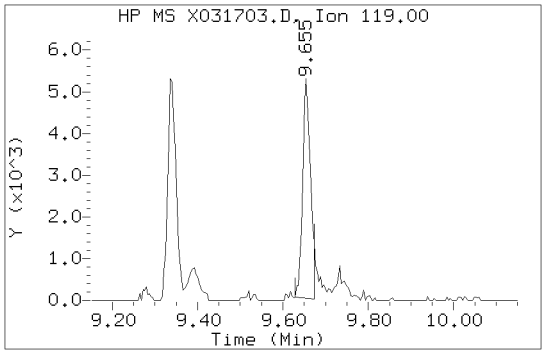
BEFORE

MASS
119
AREA
7728
HEIGHT
5256
30-Mar-2023
12:33
linh
pham



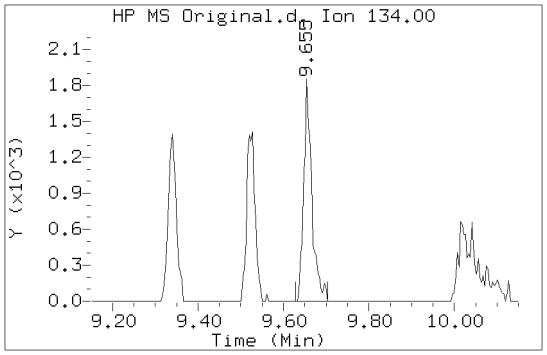
AFTER

MASS
119
AREA
6920
HEIGHT
5256
30-Mar-2023
12:41
linh
pham



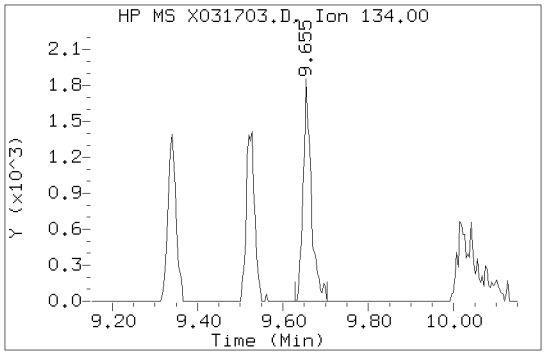
BEFORE

MASS
134
AREA
2501
HEIGHT
1854
30-Mar-2023
12:33
linh
pham



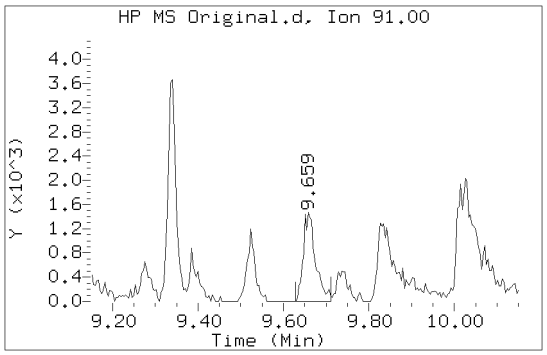
AFTER

MASS
134
AREA
2501
HEIGHT
1854
30-Mar-2023
12:41
linh
pham



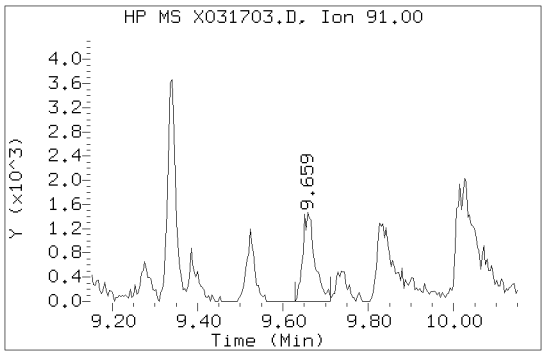
BEFORE

MASS
91
AREA
2967
HEIGHT
1473
30-Mar-2023
12:33
linh
pham



AFTER

MASS
91
AREA
2967
HEIGHT
1473
30-Mar-2023
12:41
linh
pham



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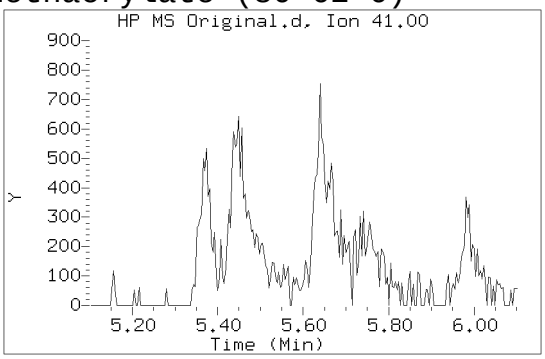
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

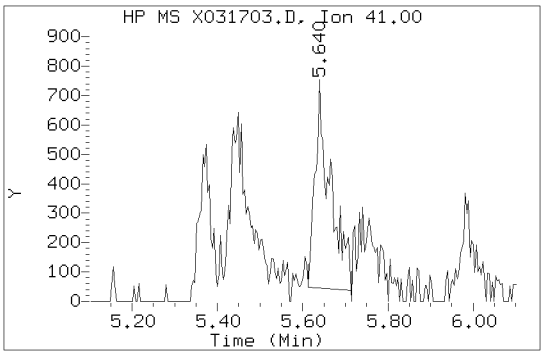
Methyl Methacrylate (80-62-6)

Reason Code:

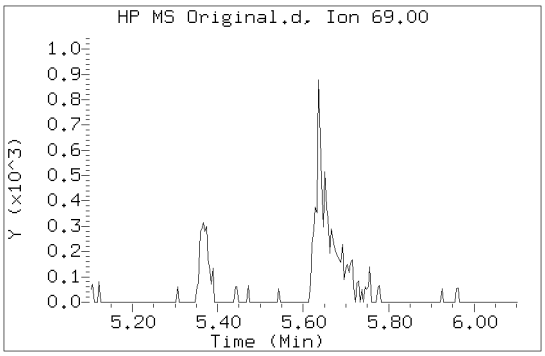
BEFORE
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



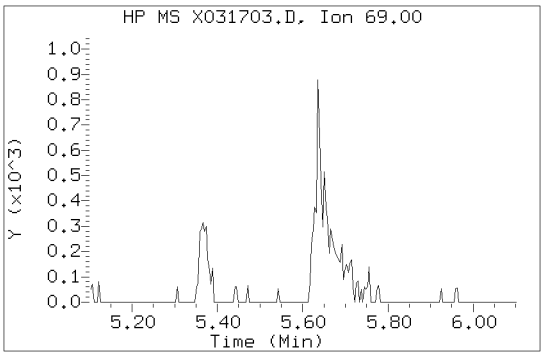
AFTER
MASS
41
AREA
1737
HEIGHT
709
30-Mar-2023
12:41
linh
pham



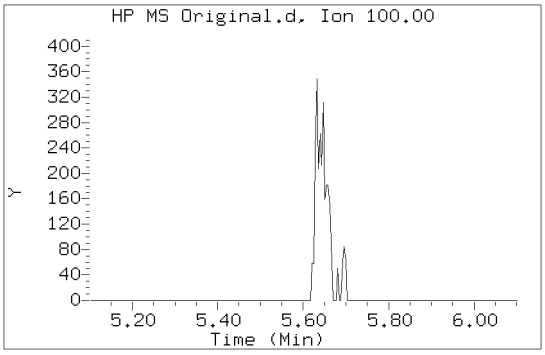
BEFORE
MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



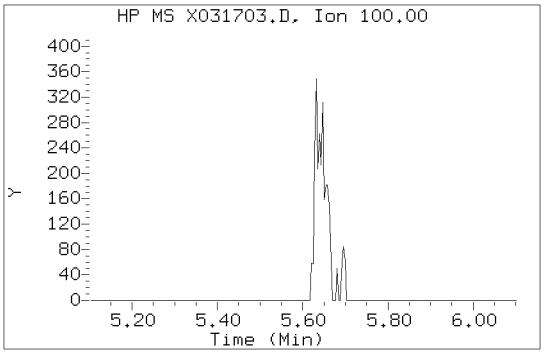
AFTER
MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
100
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



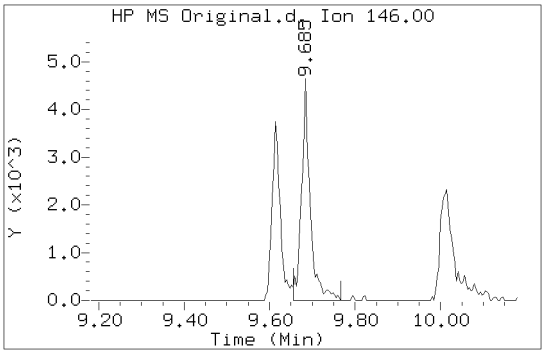
AFTER
MASS
100
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



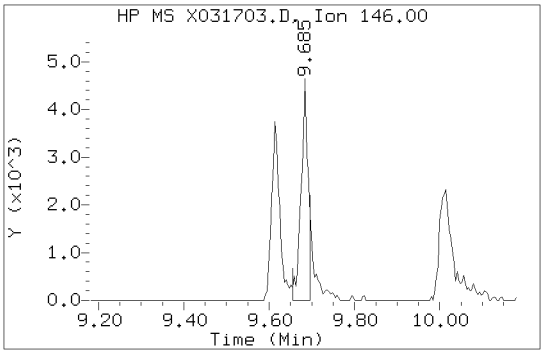
1,4-Dichlorobenzene (106-46-7)

Reason Code:

BEFORE
MASS
146
AREA
6662
HEIGHT
4645
30-Mar-2023
12:33
linh
pham



AFTER
MASS
146
AREA
5378
HEIGHT
4645
30-Mar-2023
12:41
linh
pham



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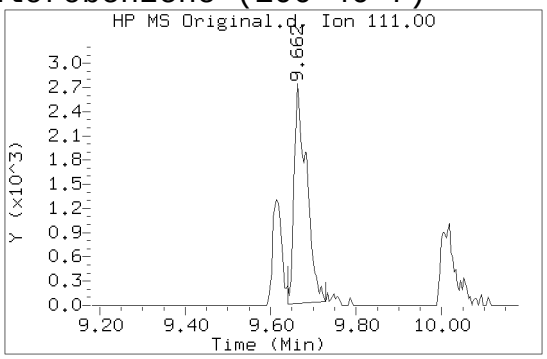
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

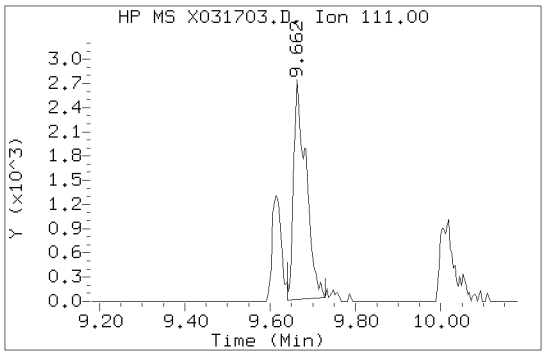
1,4-Dichlorobenzene (106-46-7)

Reason Code:

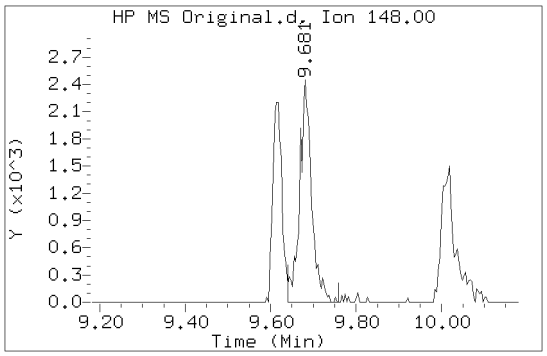
BEFORE
MASS
111
AREA
5585
HEIGHT
2720
30-Mar-2023
12:33
linh
pham



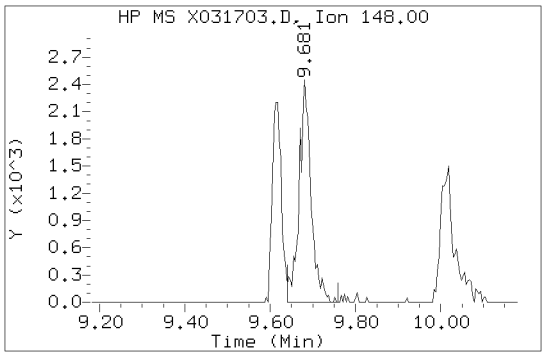
AFTER
MASS
111
AREA
5585
HEIGHT
2720
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
148
AREA
4886
HEIGHT
2449
30-Mar-2023
12:33
linh
pham



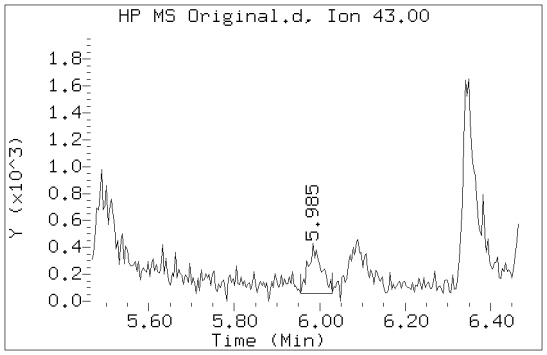
AFTER
MASS
148
AREA
4886
HEIGHT
2449
30-Mar-2023
12:41
linh
pham



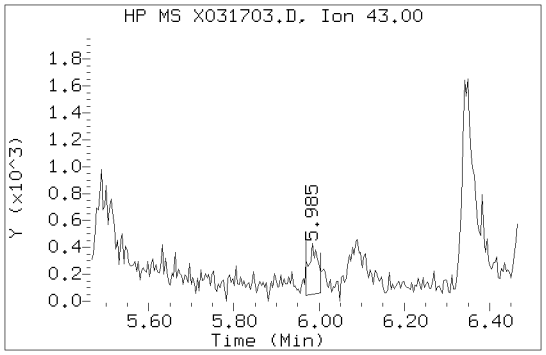
2-Nitropropane (79-46-9)

Reason Code:

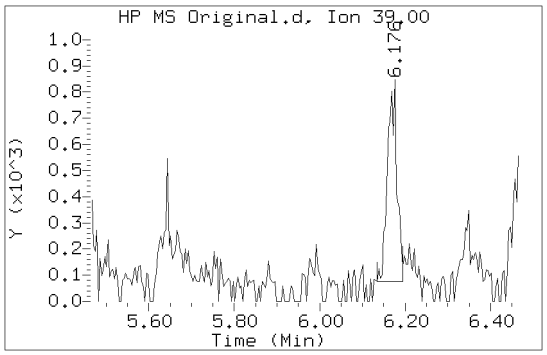
BEFORE
MASS
43
AREA
770
HEIGHT
369
30-Mar-2023
12:33
linh
pham



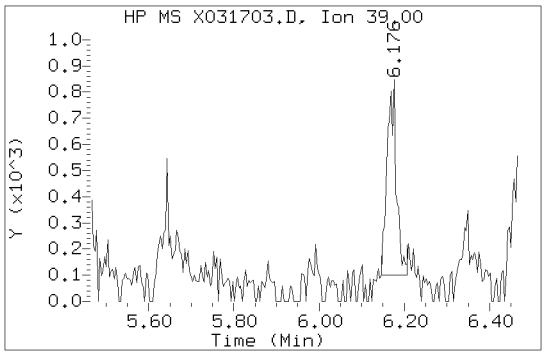
AFTER
MASS
43
AREA
573
HEIGHT
377
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
39
AREA
1169
HEIGHT
771
30-Mar-2023
12:33
linh
pham



AFTER
MASS
39
AREA
1112
HEIGHT
746
30-Mar-2023
12:41
linh
pham



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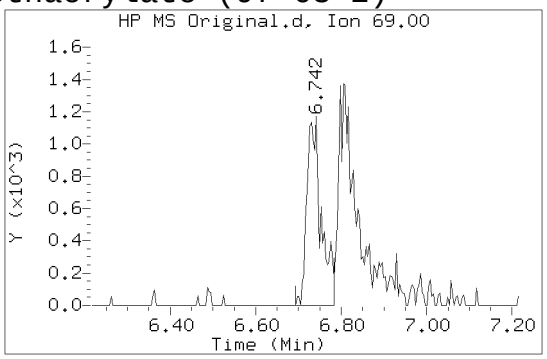
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Ethyl Methacrylate (97-63-2)

Reason Code:

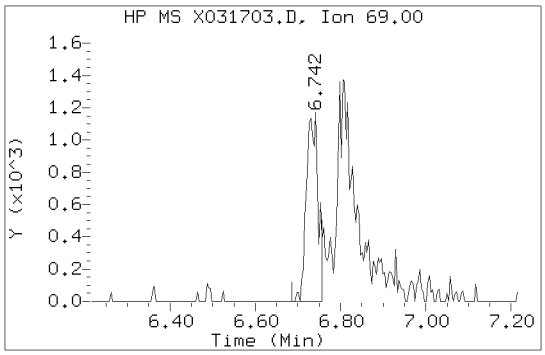
BEFORE

MASS
69
AREA
2745
HEIGHT
1173
30-Mar-2023
12:33
linh
pham



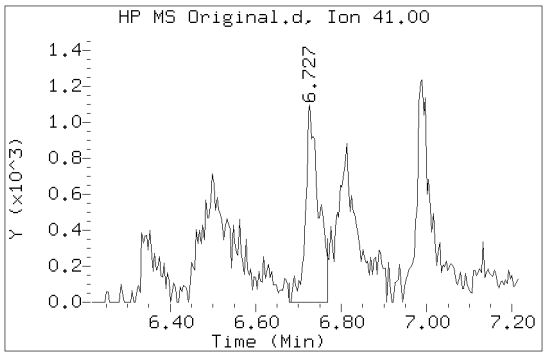
AFTER

MASS
69
AREA
2259
HEIGHT
1173
30-Mar-2023
12:41
linh
pham



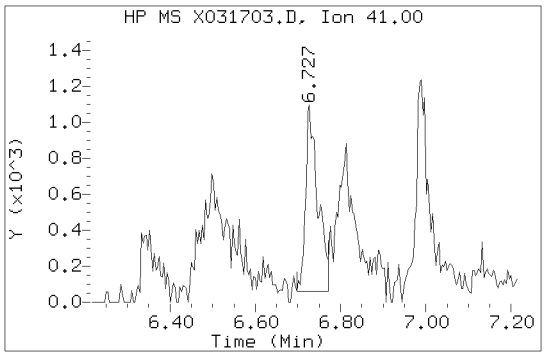
BEFORE

MASS
41
AREA
2398
HEIGHT
1097
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
2098
HEIGHT
1037
30-Mar-2023
12:41
linh
pham

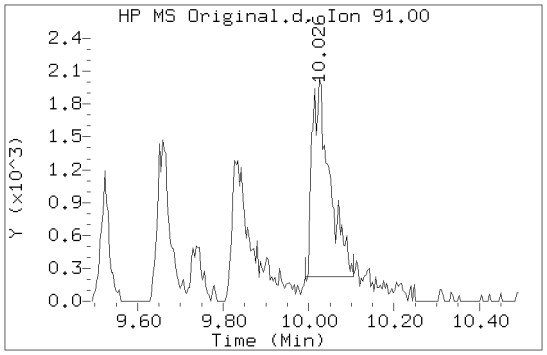


n-Butylbenzene (104-51-8)

Reason Code:

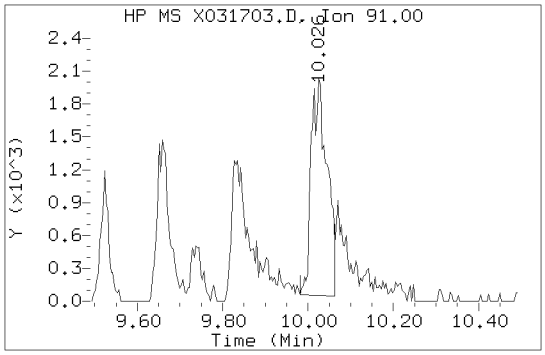
BEFORE

MASS
91
AREA
5090
HEIGHT
1805
30-Mar-2023
12:33
linh
pham



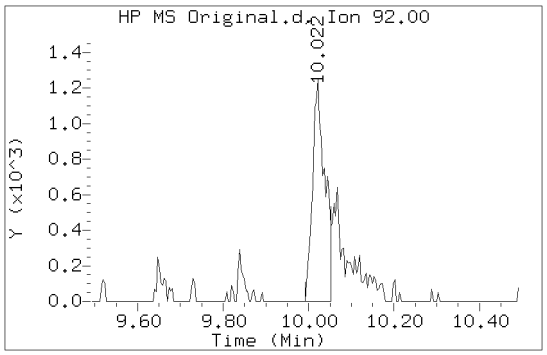
AFTER

MASS
91
AREA
5143
HEIGHT
1977
30-Mar-2023
12:41
linh
pham



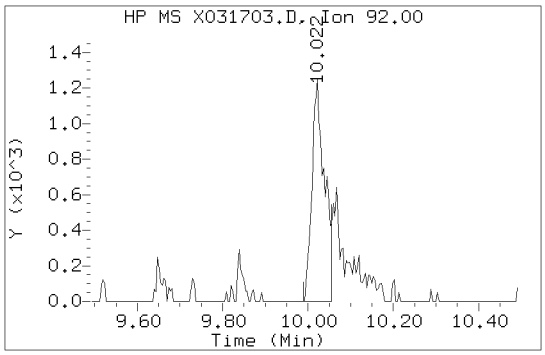
BEFORE

MASS
92
AREA
2483
HEIGHT
1247
30-Mar-2023
12:33
linh
pham



AFTER

MASS
92
AREA
2581
HEIGHT
1247
30-Mar-2023
12:41
linh
pham



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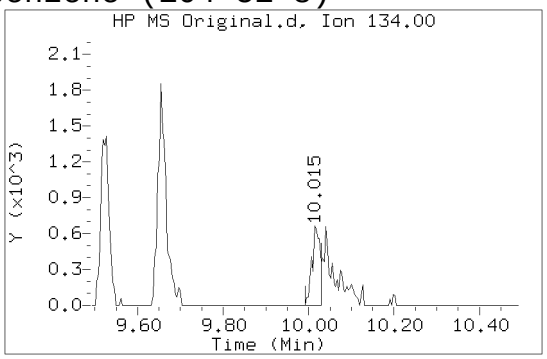
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

n-Butylbenzene (104-51-8)

Reason Code:

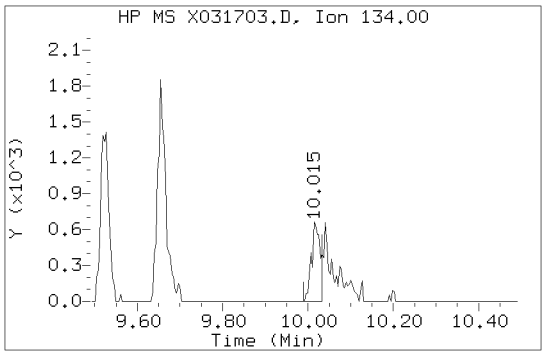
BEFORE

MASS
134
AREA
860
HEIGHT
663
30-Mar-2023
12:33
linh
pham



AFTER

MASS
134
AREA
950
HEIGHT
663
30-Mar-2023
12:41
linh
pham

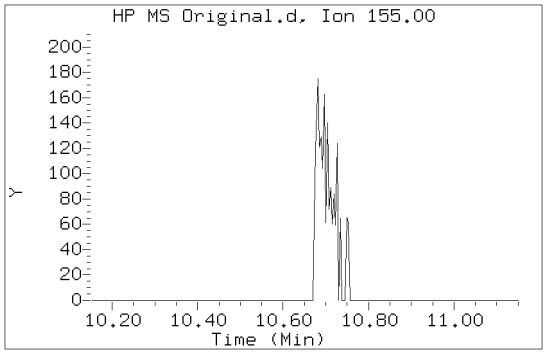


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

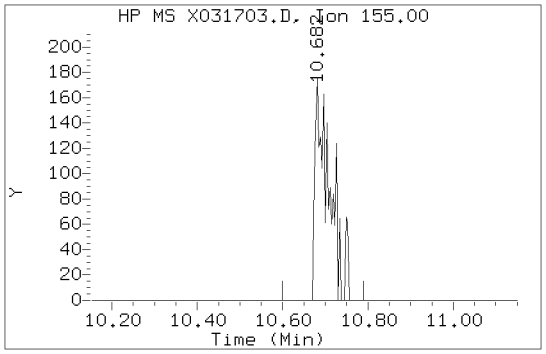
BEFORE

MASS
155
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



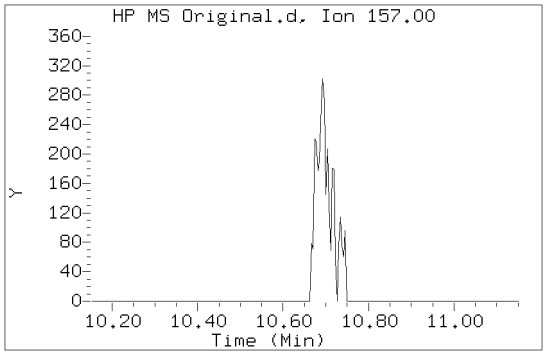
AFTER

MASS
155
AREA
405
HEIGHT
175
30-Mar-2023
12:41
linh
pham



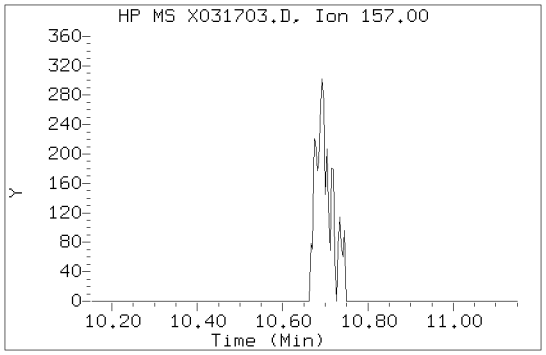
BEFORE

MASS
157
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



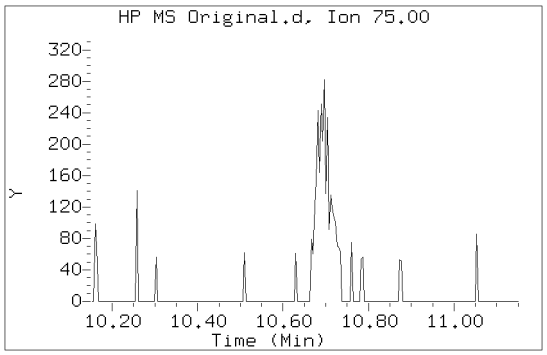
AFTER

MASS
157
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



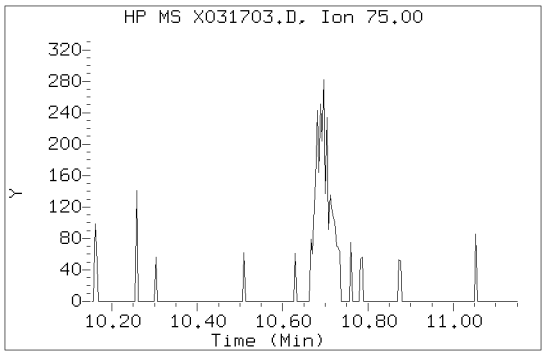
BEFORE

MASS
75
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
75
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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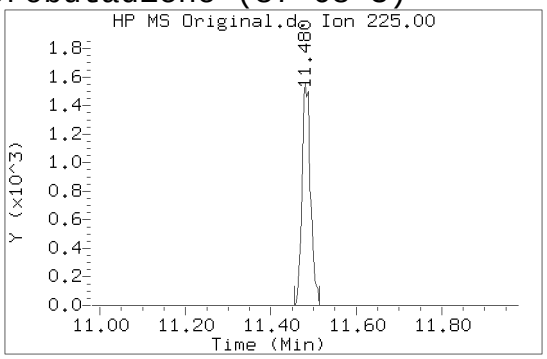
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

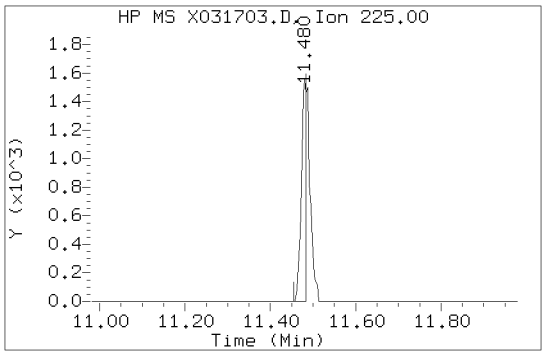
Hexachlorobutadiene (87-68-3)

Reason Code:

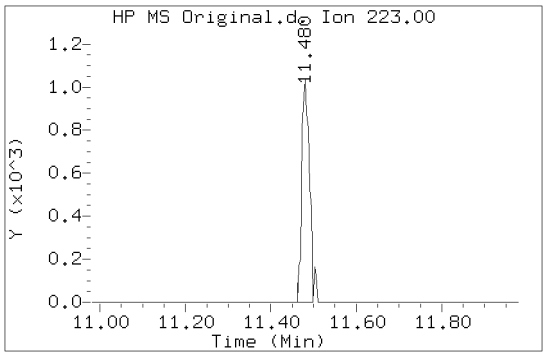
BEFORE
MASS
225
AREA
2232
HEIGHT
1553
30-Mar-2023
12:33
linh
pham



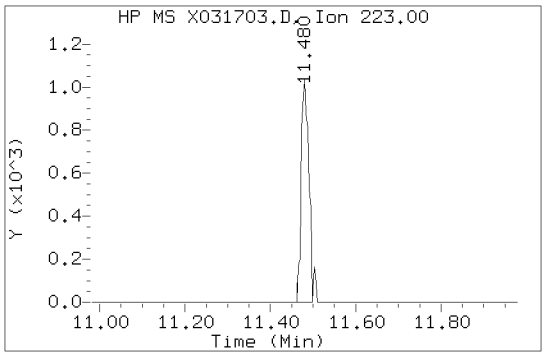
AFTER
MASS
225
AREA
1367
HEIGHT
1553
30-Mar-2023
12:41
linh
pham



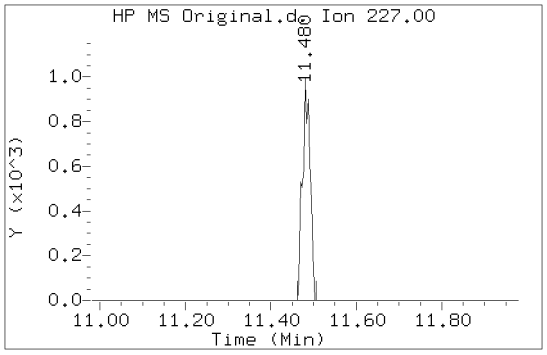
BEFORE
MASS
223
AREA
1310
HEIGHT
1034
30-Mar-2023
12:33
linh
pham



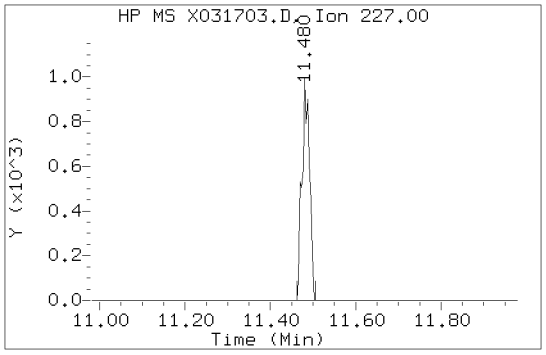
AFTER
MASS
223
AREA
1310
HEIGHT
1034
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
227
AREA
1275
HEIGHT
992
30-Mar-2023
12:33
linh
pham



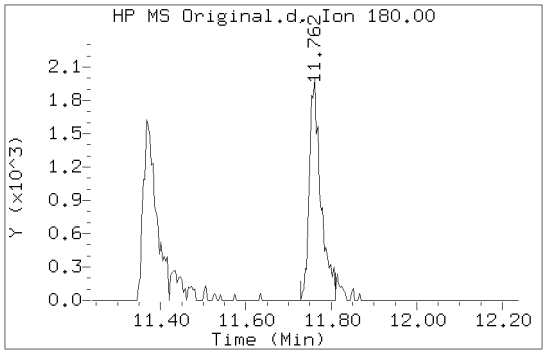
AFTER
MASS
227
AREA
1275
HEIGHT
992
30-Mar-2023
12:41
linh
pham



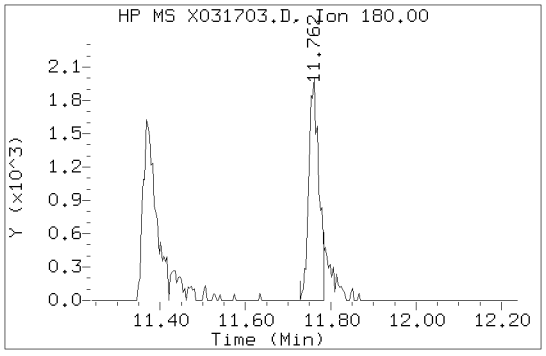
1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

BEFORE
MASS
180
AREA
3743
HEIGHT
1996
30-Mar-2023
12:33
linh
pham



AFTER
MASS
180
AREA
3277
HEIGHT
1996
30-Mar-2023
12:41
linh
pham



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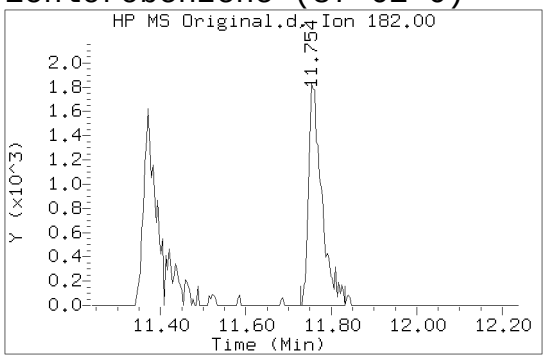
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

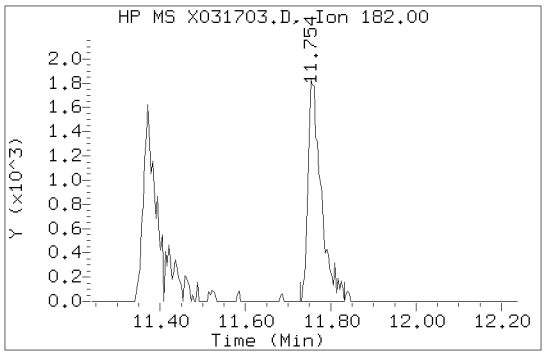
BEFORE

MASS
182
AREA
3920
HEIGHT
1829
30-Mar-2023
12:33
linh
pham



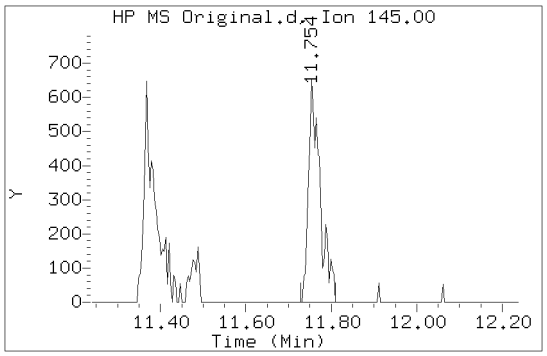
AFTER

MASS
182
AREA
3920
HEIGHT
1829
30-Mar-2023
12:41
linh
pham



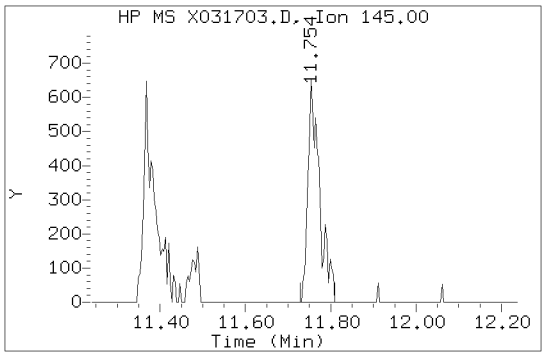
BEFORE

MASS
145
AREA
1233
HEIGHT
651
30-Mar-2023
12:33
linh
pham



AFTER

MASS
145
AREA
1233
HEIGHT
651
30-Mar-2023
12:41
linh
pham

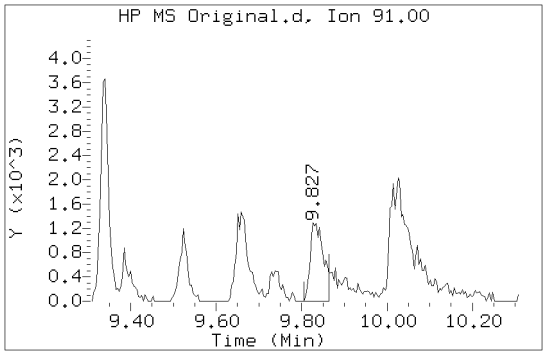


Benzyl Chloride (100-44-7)

Reason Code:

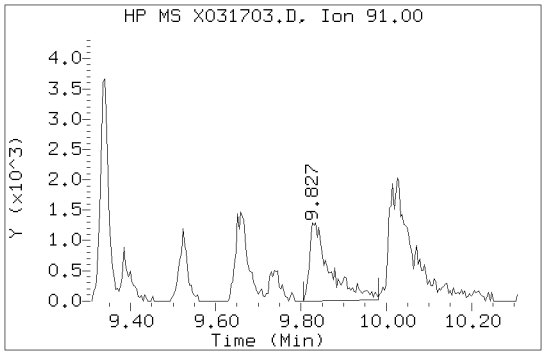
BEFORE

MASS
91
AREA
2784
HEIGHT
1288
30-Mar-2023
12:33
linh
pham



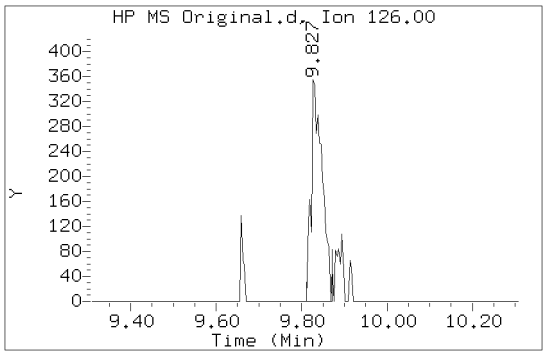
AFTER

MASS
91
AREA
4324
HEIGHT
1287
30-Mar-2023
12:41
linh
pham



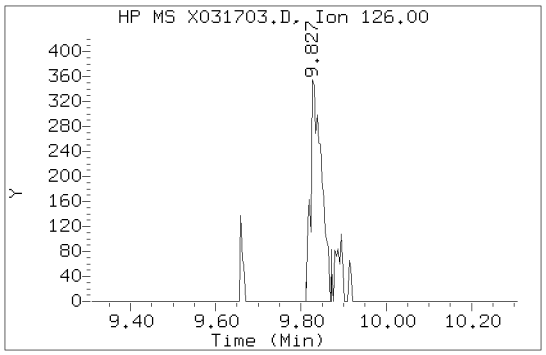
BEFORE

MASS
126
AREA
647
HEIGHT
355
30-Mar-2023
12:33
linh
pham



AFTER

MASS
126
AREA
647
HEIGHT
355
30-Mar-2023
12:41
linh
pham



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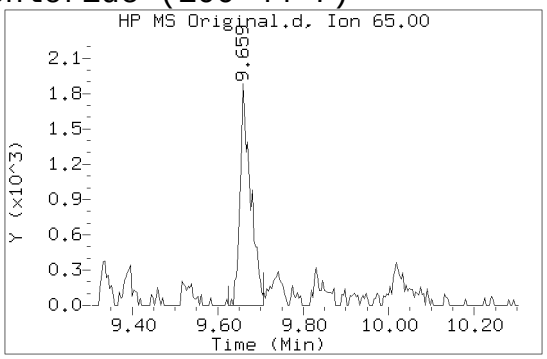
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Benzyl Chloride (100-44-7)

Reason Code:

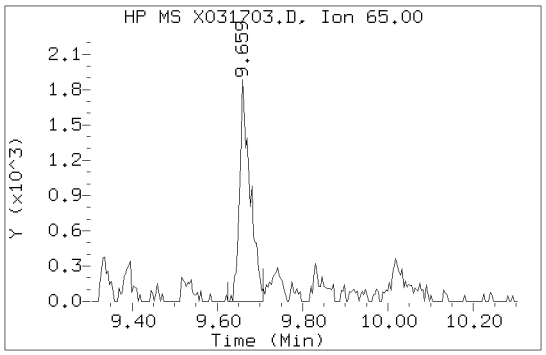
BEFORE

MASS
65
AREA
3227
HEIGHT
1885
30-Mar-2023
12:33
linh
pham



AFTER

MASS
65
AREA
3227
HEIGHT
1885
30-Mar-2023
12:41
linh
pham

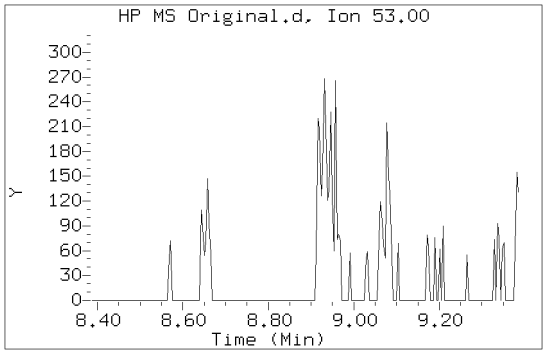


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

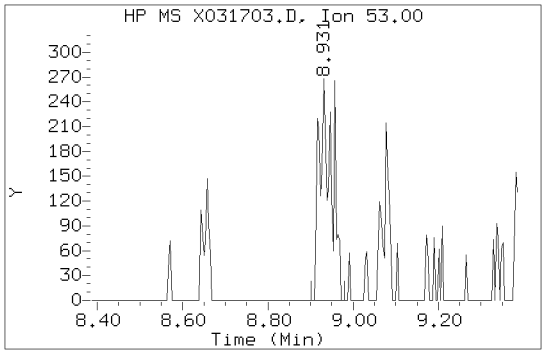
BEFORE

MASS
53
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



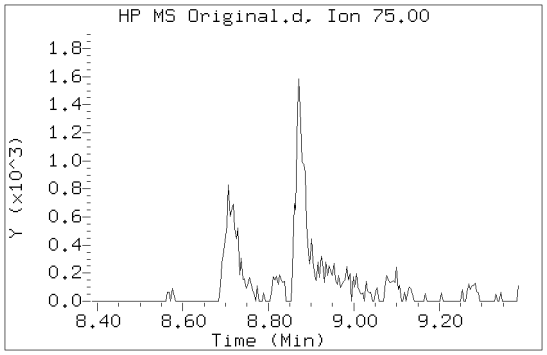
AFTER

MASS
53
AREA
541
HEIGHT
268
30-Mar-2023
12:41
linh
pham



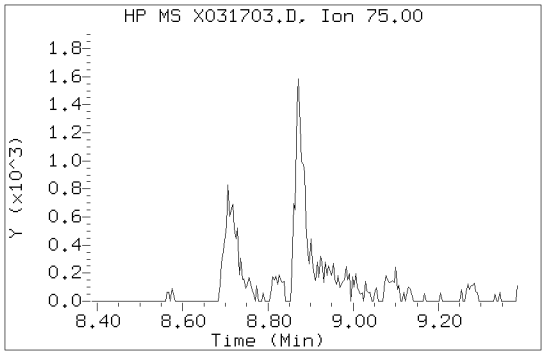
BEFORE

MASS
75
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
75
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

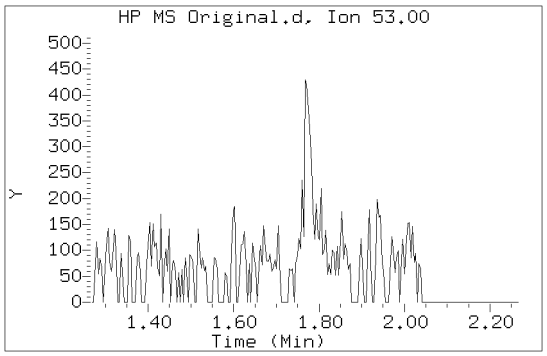


Chloroprene (126-99-8)

Reason Code:

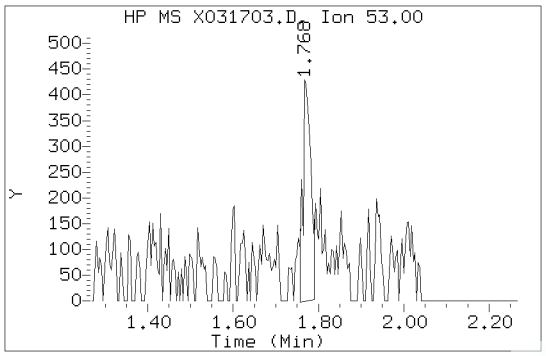
BEFORE

MASS
53
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
53
AREA
581
HEIGHT
429
30-Mar-2023
12:41
linh
pham



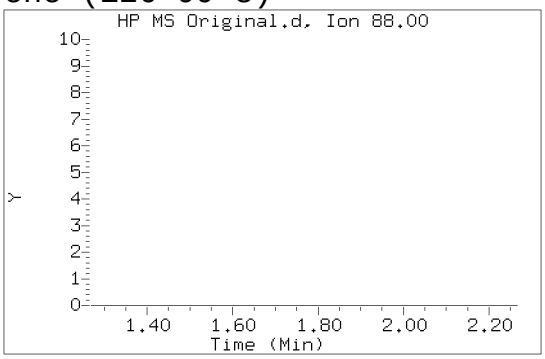
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Chloroprene (126-99-8)

Reason Code:

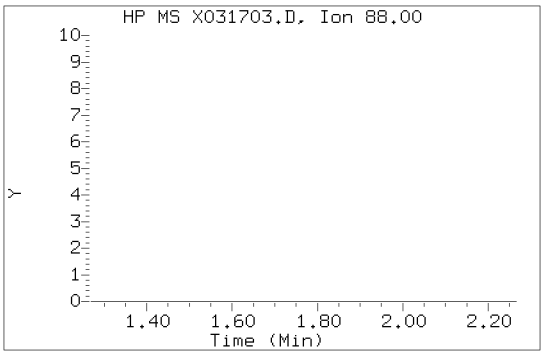
BEFORE

MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

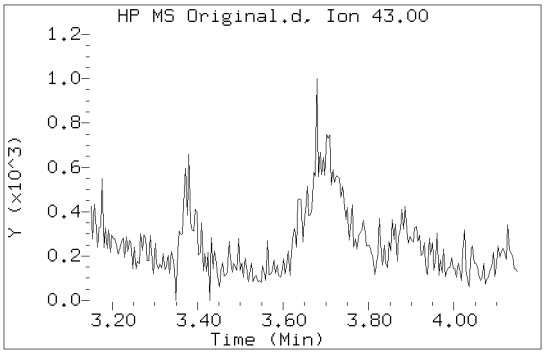


Ethyl Acetate (141-78-6)

Reason Code:

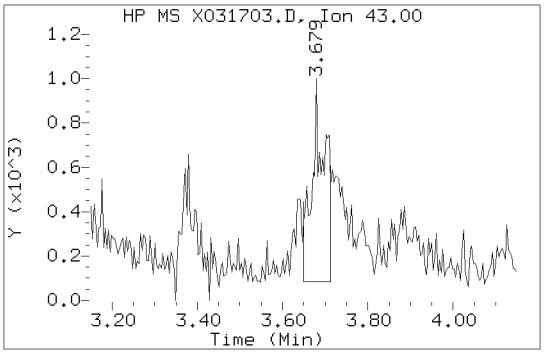
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



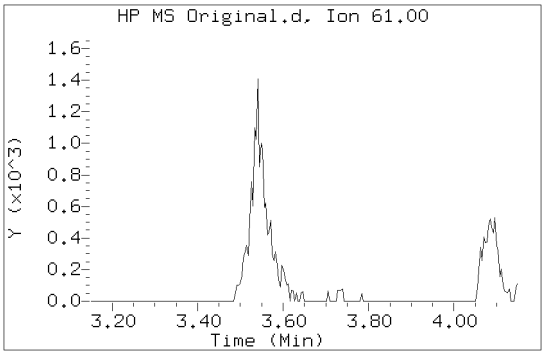
AFTER

MASS
43
AREA
1988
HEIGHT
916
30-Mar-2023
12:41
linh
pham



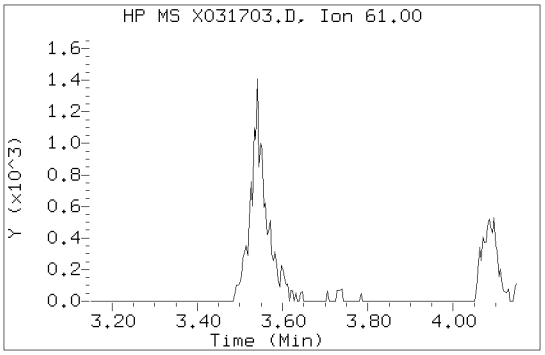
BEFORE

MASS
61
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



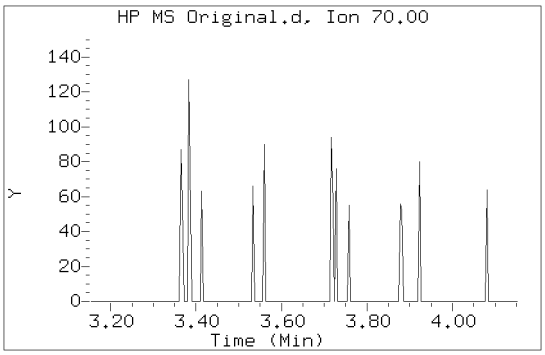
AFTER

MASS
61
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



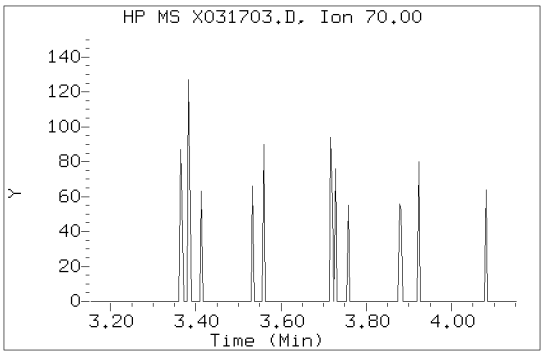
BEFORE

MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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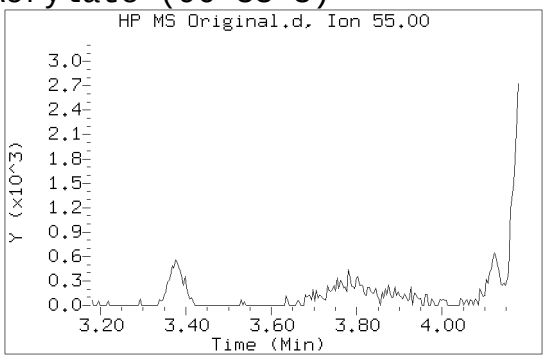
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

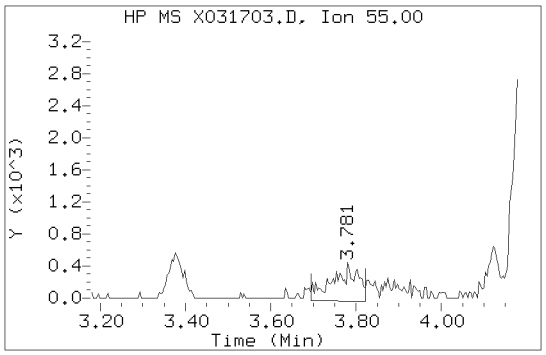
Methyl Acrylate (96-33-3)

BEFORE
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham

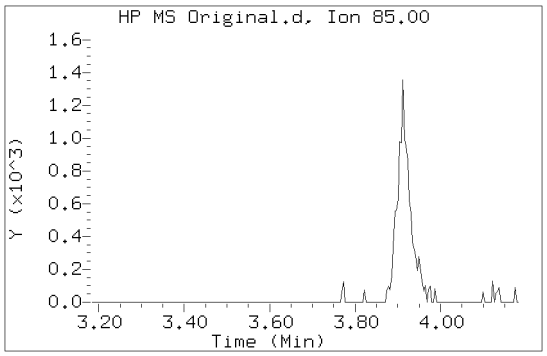


Reason Code:

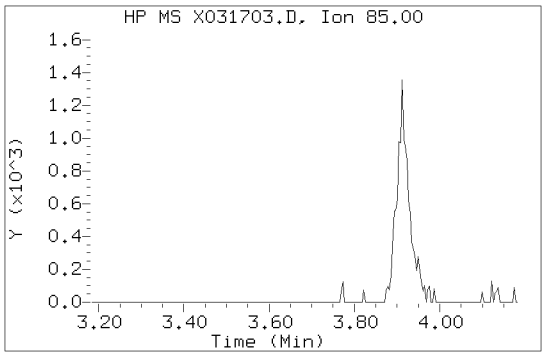
AFTER
MASS
55
AREA
1927
HEIGHT
487
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham

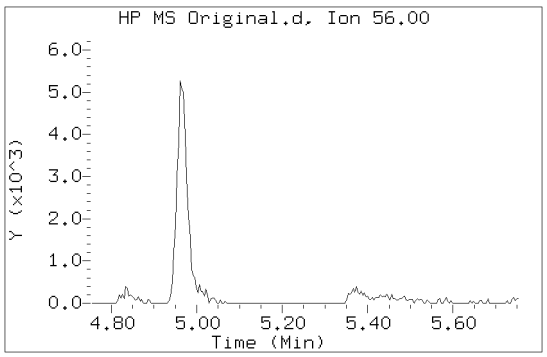


AFTER
MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



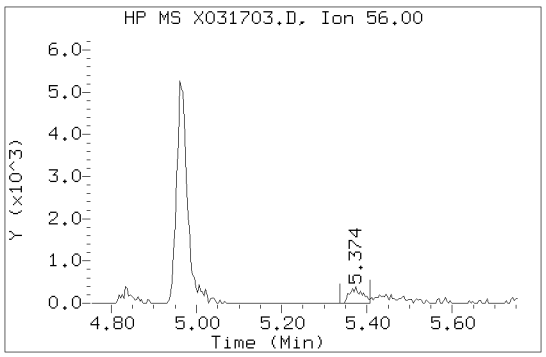
n-Butanol (71-36-3)

BEFORE
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham

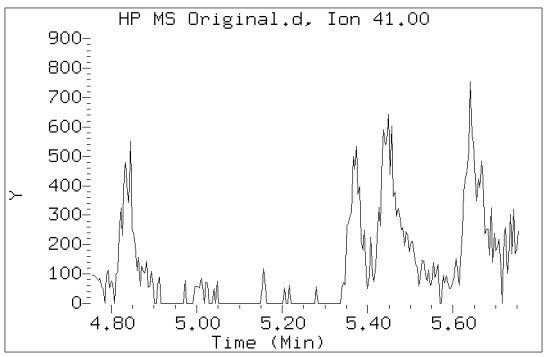


Reason Code:

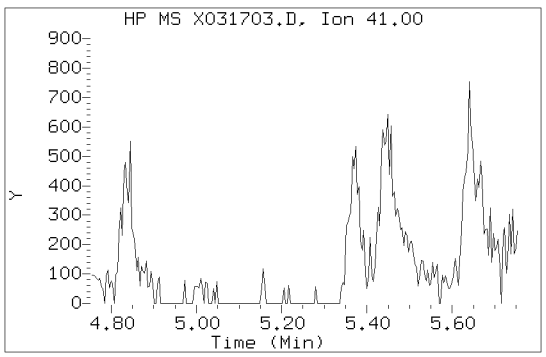
AFTER
MASS
56
AREA
783
HEIGHT
391
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



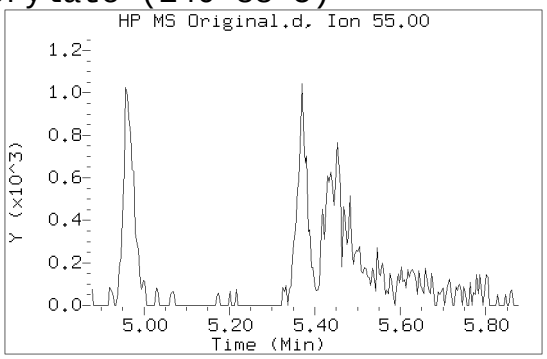
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Ethyl Acrylate (140-88-5)

Reason Code:

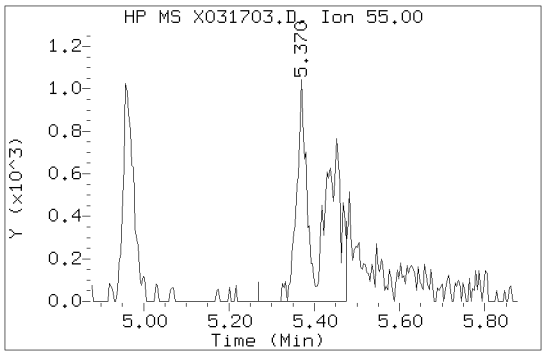
BEFORE

MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



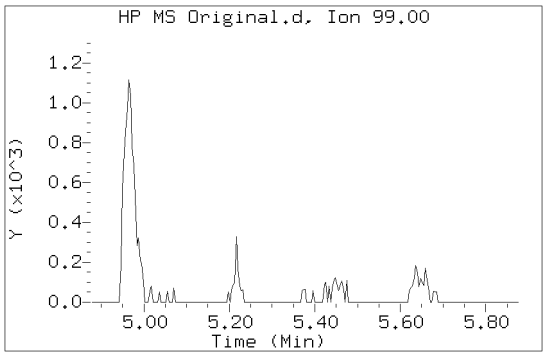
AFTER

MASS
55
AREA
3644
HEIGHT
1043
30-Mar-2023
12:41
linh
pham



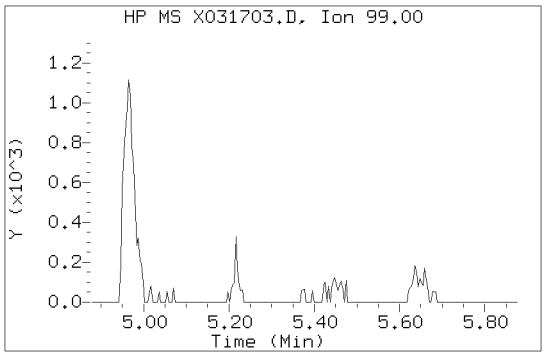
BEFORE

MASS
99
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
99
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

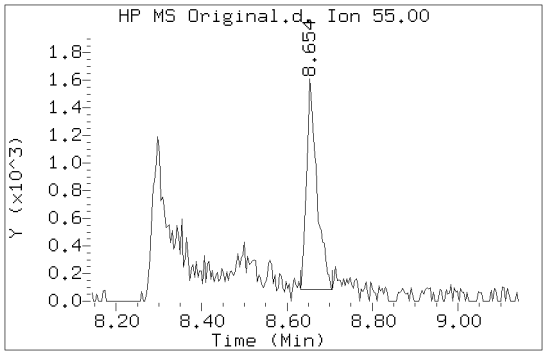


Cyclohexanone (108-94-1)

Reason Code:

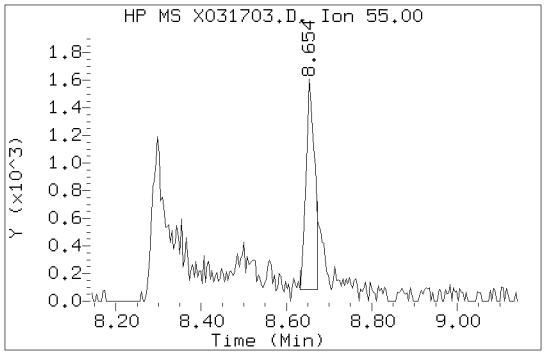
BEFORE

MASS
55
AREA
2583
HEIGHT
1526
30-Mar-2023
12:33
linh
pham



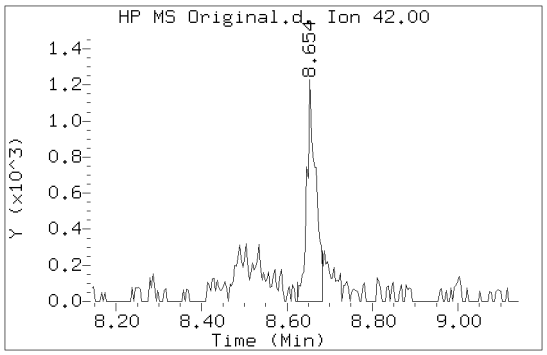
AFTER

MASS
55
AREA
2126
HEIGHT
1526
30-Mar-2023
12:41
linh
pham



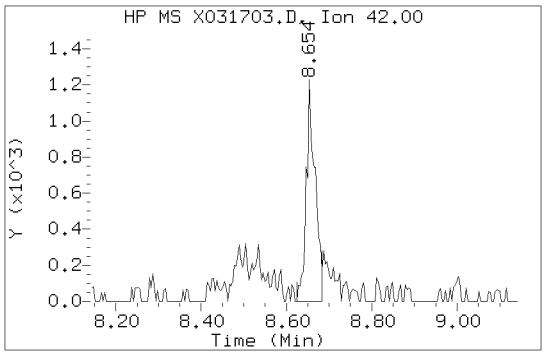
BEFORE

MASS
42
AREA
1788
HEIGHT
1229
30-Mar-2023
12:33
linh
pham



AFTER

MASS
42
AREA
1788
HEIGHT
1229
30-Mar-2023
12:41
linh
pham

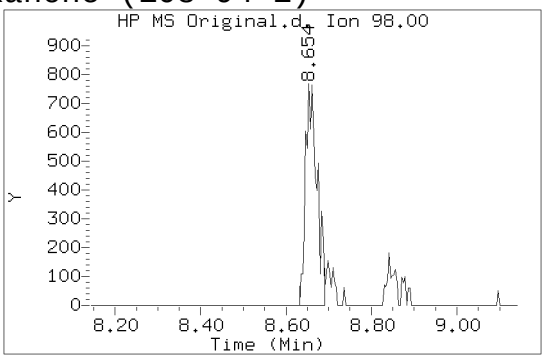


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Cyclohexanone (108-94-1)

BEFORE

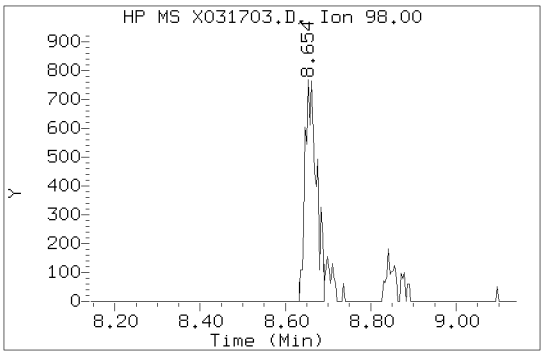
MASS
98
AREA
1442
HEIGHT
769
30-Mar-2023
12:33
linh
pham



AFTER

MASS
98
AREA
1442
HEIGHT
769
30-Mar-2023
12:41
linh
pham

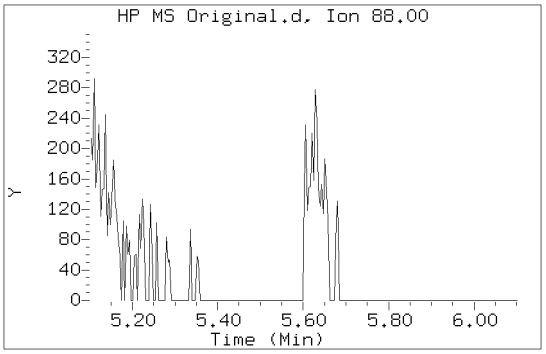
Reason Code:



1,4-Dioxane ()

BEFORE

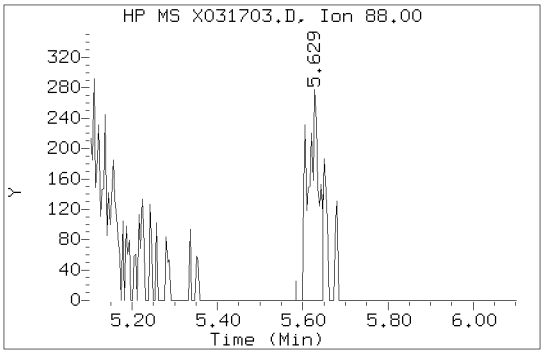
MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

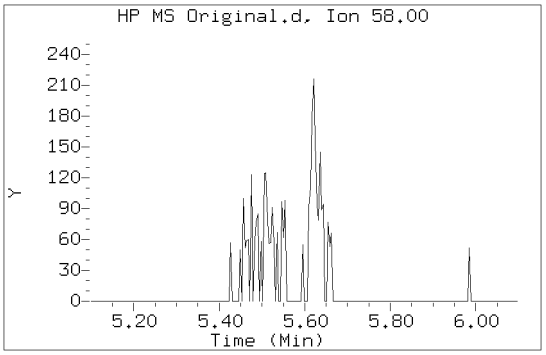
MASS
88
AREA
500
HEIGHT
278
30-Mar-2023
12:41
linh
pham

Reason Code:



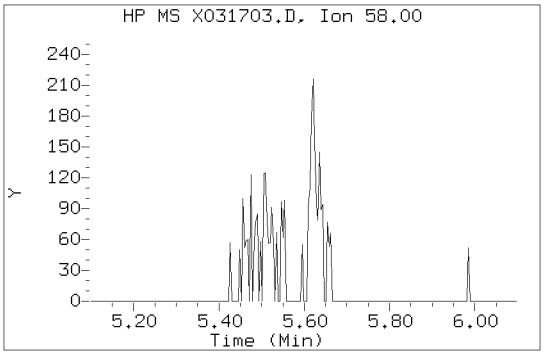
BEFORE

MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

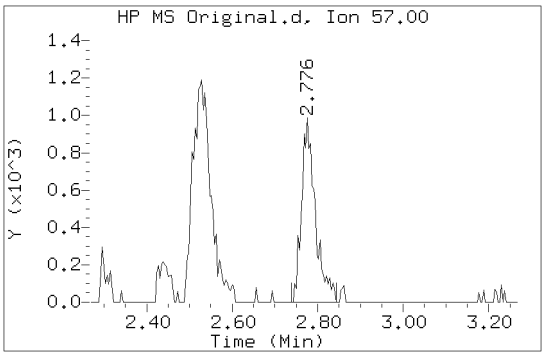
MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



n-Hexane (110-54-3)

BEFORE

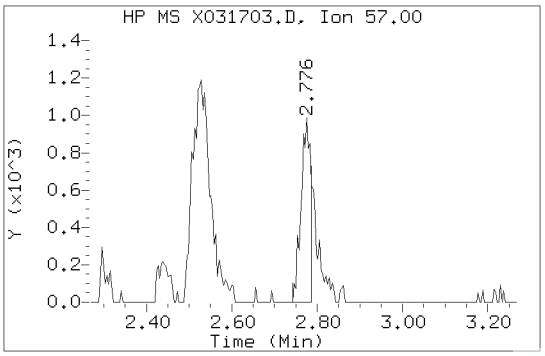
MASS
57
AREA
2232
HEIGHT
989
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
1555
HEIGHT
989
30-Mar-2023
12:41
linh
pham

Reason Code:



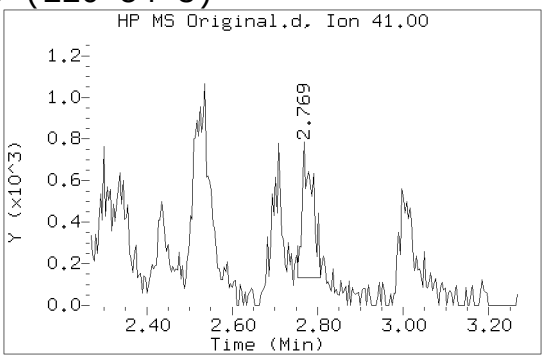
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

n-Hexane (110-54-3)

Reason Code:

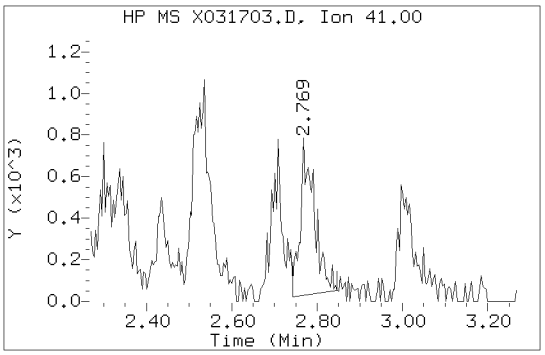
BEFORE

MASS
41
AREA
1101
HEIGHT
653
30-Mar-2023
12:33
linh
pham



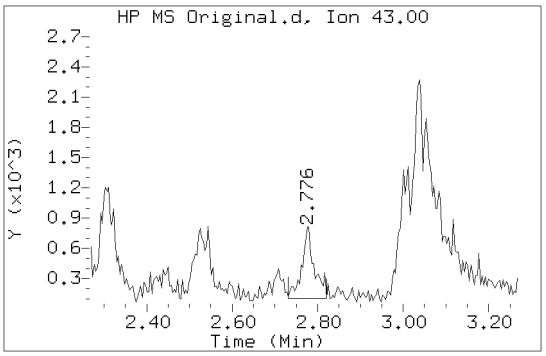
AFTER

MASS
41
AREA
1729
HEIGHT
755
30-Mar-2023
12:41
linh
pham



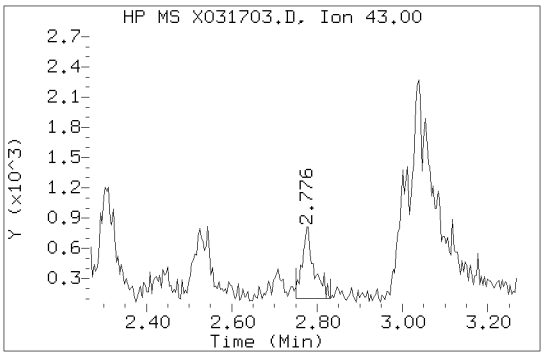
BEFORE

MASS
43
AREA
1428
HEIGHT
708
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
AREA
1396
HEIGHT
712
30-Mar-2023
12:41
linh
pham

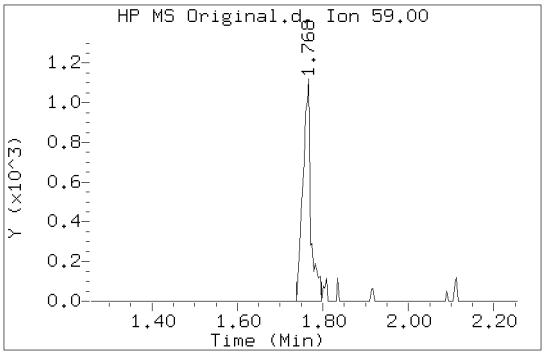


Diethyl ether (60-29-7)

Reason Code:

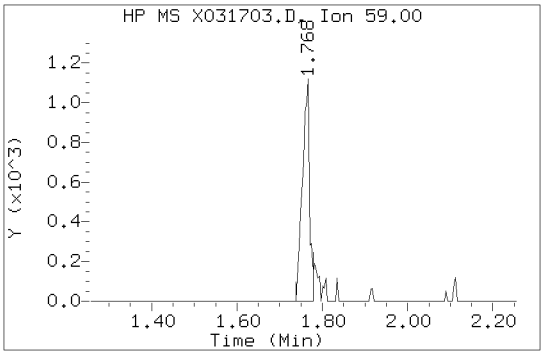
BEFORE

MASS
59
AREA
1465
HEIGHT
1120
30-Mar-2023
12:33
linh
pham



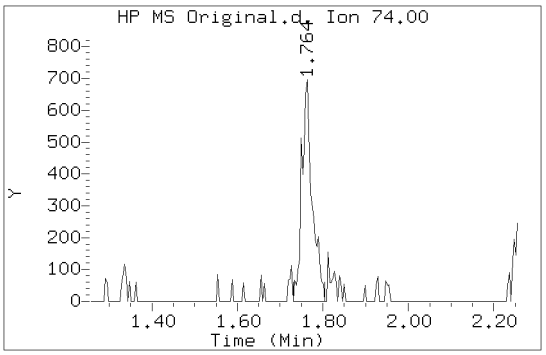
AFTER

MASS
59
AREA
1334
HEIGHT
1120
30-Mar-2023
12:41
linh
pham



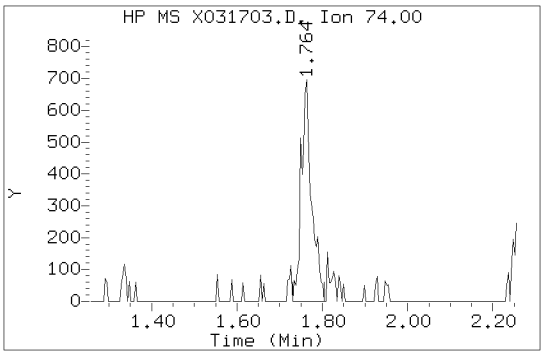
BEFORE

MASS
74
AREA
1194
HEIGHT
696
30-Mar-2023
12:33
linh
pham



AFTER

MASS
74
AREA
1194
HEIGHT
696
30-Mar-2023
12:41
linh
pham

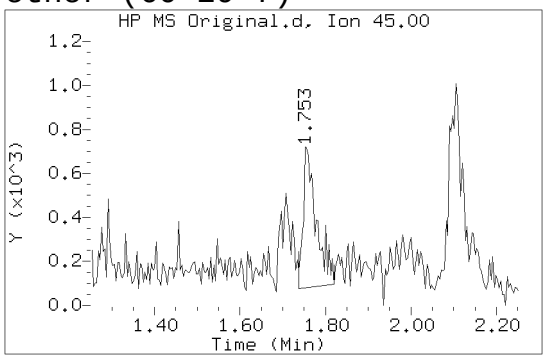


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Diethyl ether (60-29-7)

BEFORE

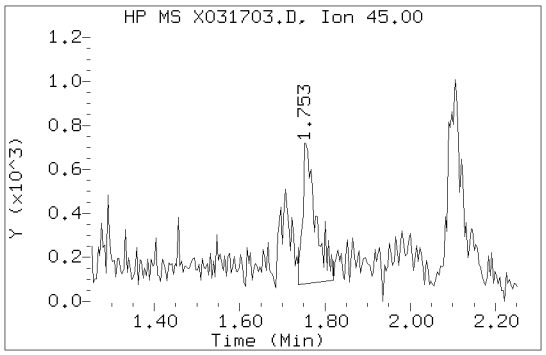
MASS
45
AREA
1387
HEIGHT
641
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

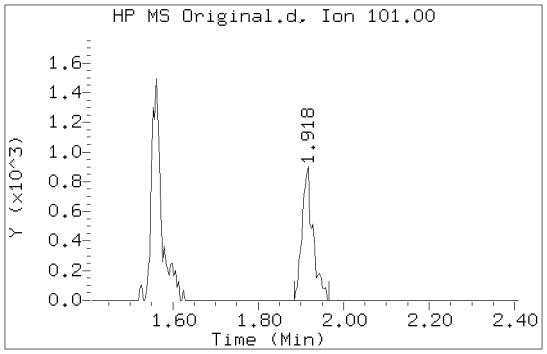
MASS
45
AREA
1387
HEIGHT
641
30-Mar-2023
12:41
linh
pham



Freon TF (76-13-1)

BEFORE

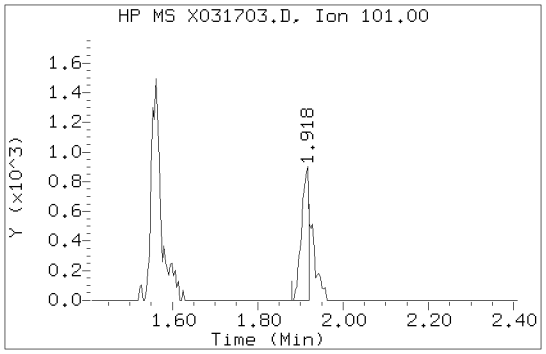
MASS
101
AREA
1607
HEIGHT
902
30-Mar-2023
12:33
linh
pham



Reason Code:

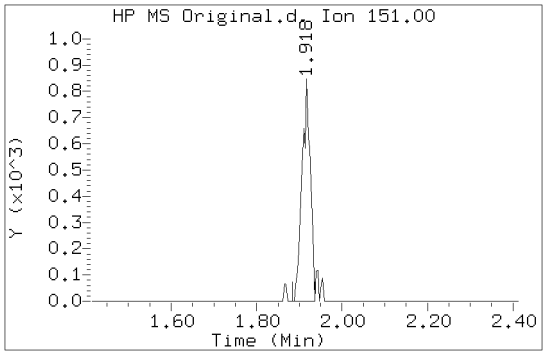
AFTER

MASS
101
AREA
1102
HEIGHT
902
30-Mar-2023
12:41
linh
pham



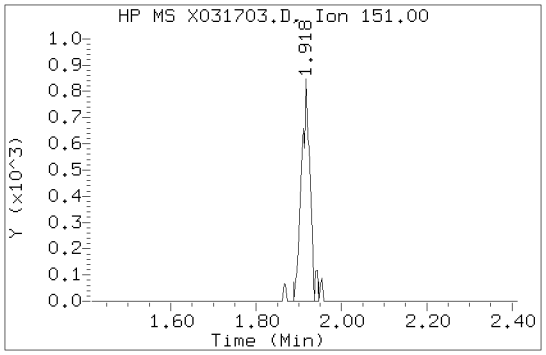
BEFORE

MASS
151
AREA
1172
HEIGHT
847
30-Mar-2023
12:33
linh
pham



AFTER

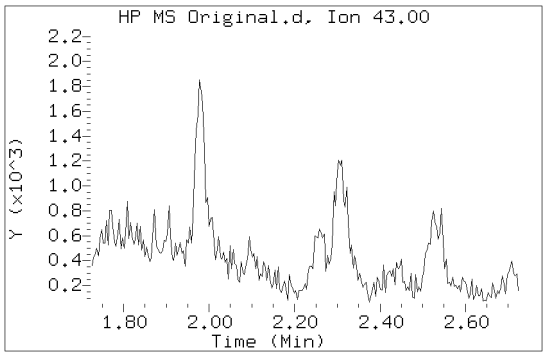
MASS
151
AREA
1224
HEIGHT
847
30-Mar-2023
12:41
linh
pham



Methyl acetate (79-20-9)

BEFORE

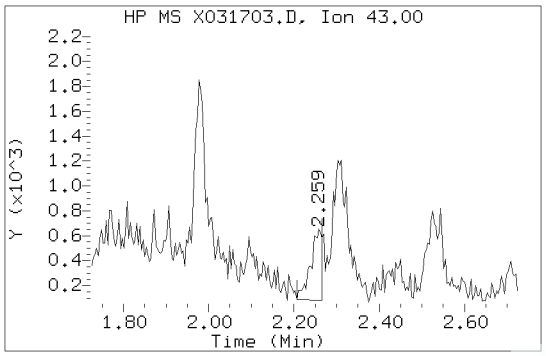
MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

MASS
43
AREA
1057
HEIGHT
572
30-Mar-2023
12:41
linh
pham



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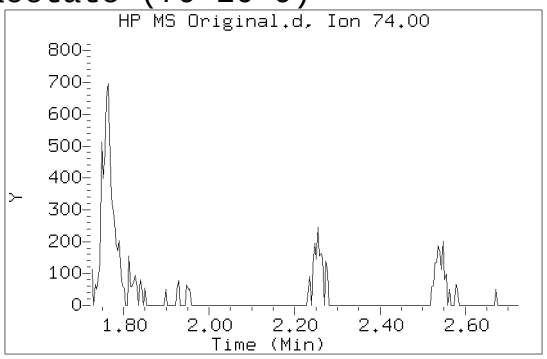
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Methyl acetate (79-20-9)

Reason Code:

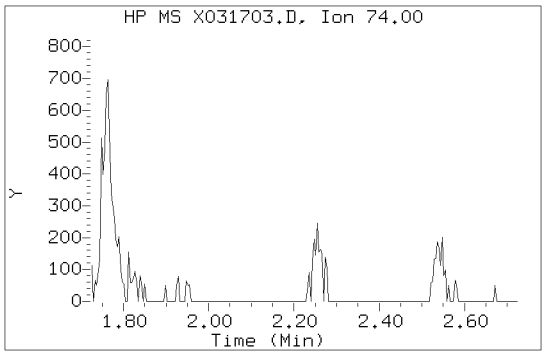
BEFORE

MASS
74
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
74
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

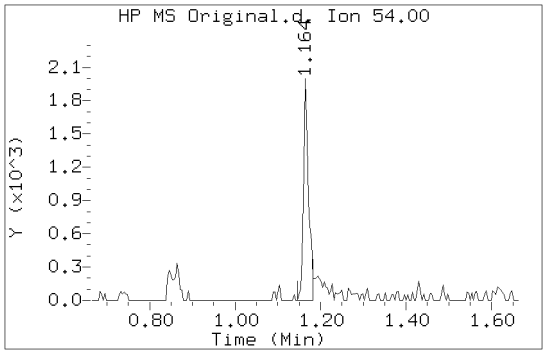


1,3-Butadiene (106-99-0)

Reason Code:

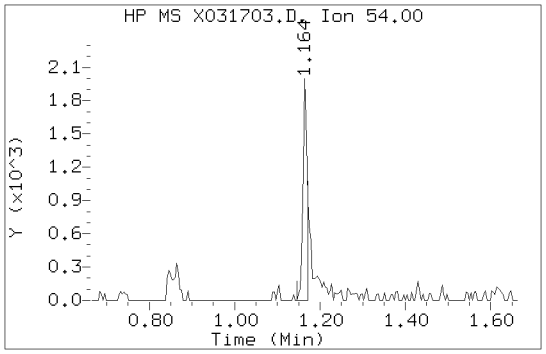
BEFORE

MASS
54
AREA
1678
HEIGHT
1998
30-Mar-2023
12:33
linh
pham



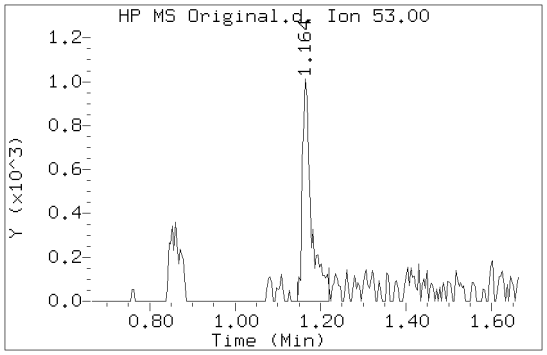
AFTER

MASS
54
AREA
1361
HEIGHT
1998
30-Mar-2023
12:41
linh
pham



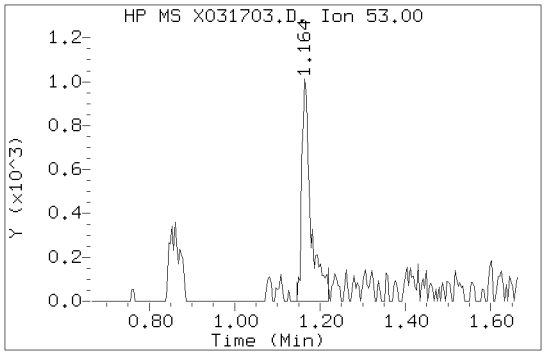
BEFORE

MASS
53
AREA
1521
HEIGHT
1013
30-Mar-2023
12:33
linh
pham



AFTER

MASS
53
AREA
1521
HEIGHT
1013
30-Mar-2023
12:41
linh
pham

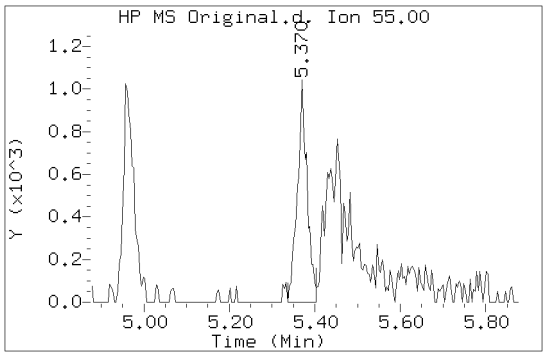


Methylcyclohexane (108-87-2)

Reason Code:

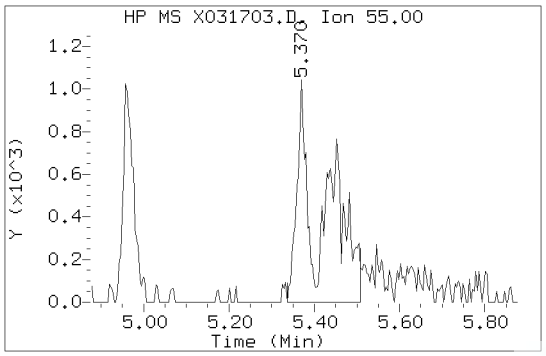
BEFORE

MASS
55
AREA
1674
HEIGHT
1043
30-Mar-2023
12:33
linh
pham



AFTER

MASS
55
AREA
4159
HEIGHT
1043
30-Mar-2023
12:41
linh
pham



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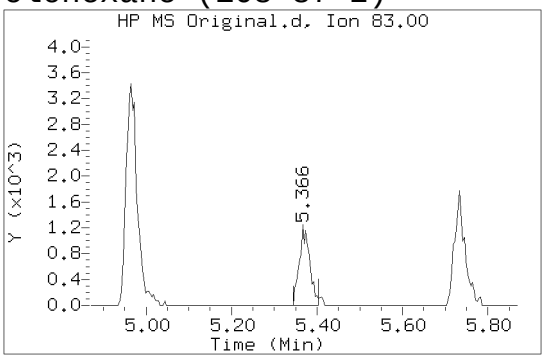
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Methylcyclohexane (108-87-2)

Reason Code:

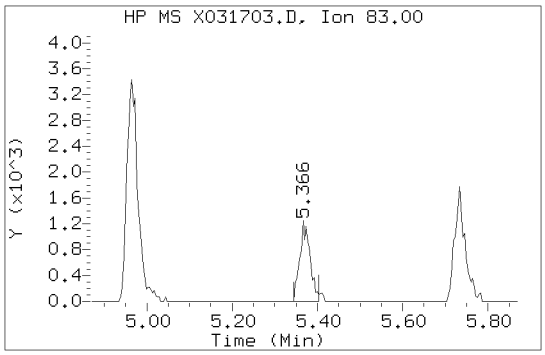
BEFORE

MASS
83
AREA
2121
HEIGHT
1250
30-Mar-2023
12:33
linh
pham



AFTER

MASS
83
AREA
2121
HEIGHT
1250
30-Mar-2023
12:41
linh
pham

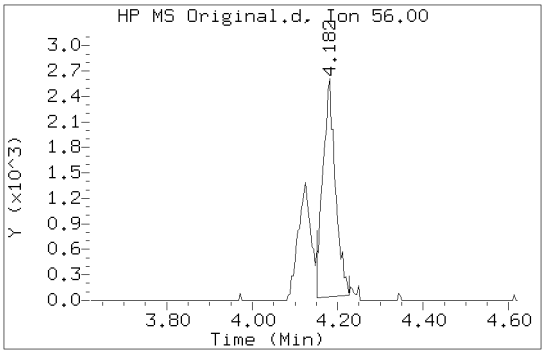


Cyclohexane (110-82-7)

Reason Code:

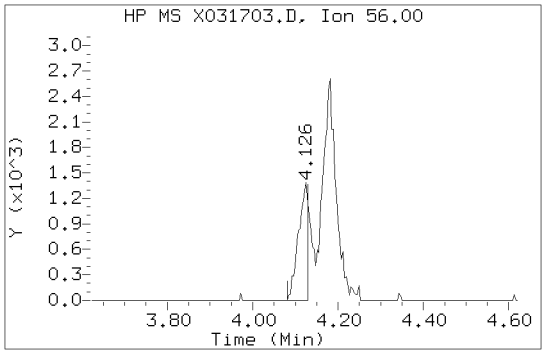
BEFORE

MASS
56
AREA
5280
HEIGHT
2569
30-Mar-2023
12:33
linh
pham



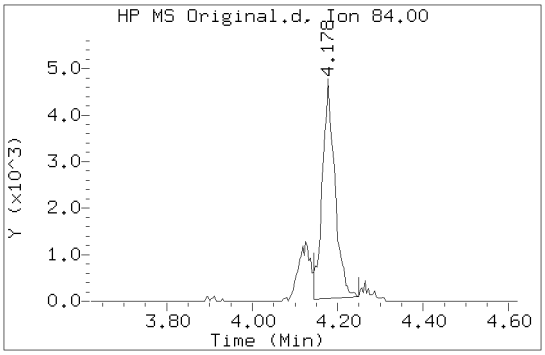
AFTER

MASS
56
AREA
2139
HEIGHT
1387
30-Mar-2023
12:41
linh
pham



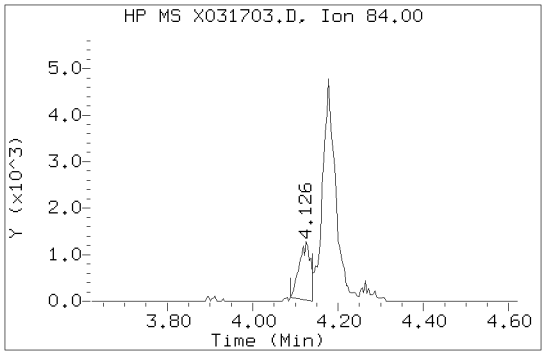
BEFORE

MASS
84
AREA
9592
HEIGHT
4720
30-Mar-2023
12:33
linh
pham



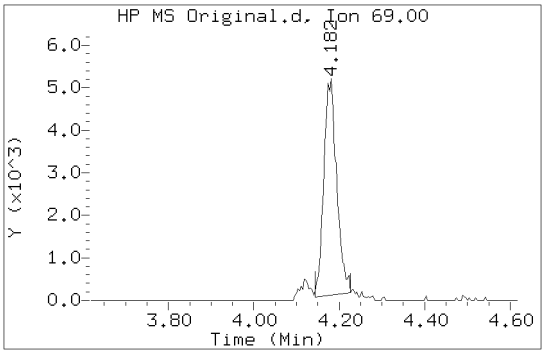
AFTER

MASS
84
AREA
2339
HEIGHT
1264
30-Mar-2023
12:41
linh
pham



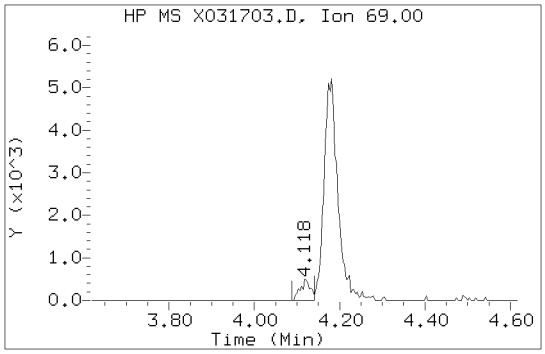
BEFORE

MASS
69
AREA
10635
HEIGHT
5092
30-Mar-2023
12:33
linh
pham



AFTER

MASS
69
AREA
828
HEIGHT
492
30-Mar-2023
12:41
linh
pham



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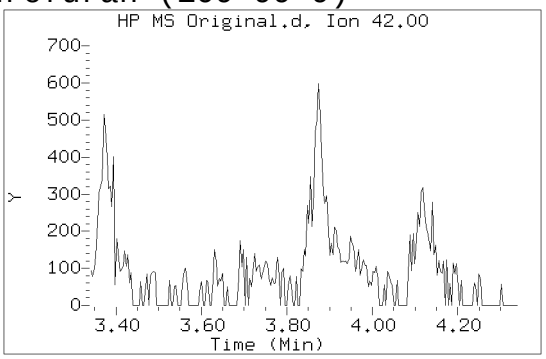
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Tetrahydrofuran (109-99-9)

Reason Code:

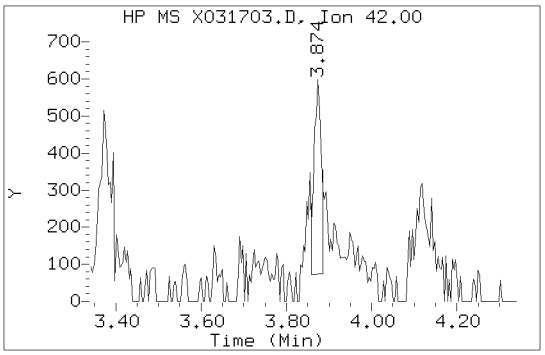
BEFORE

MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



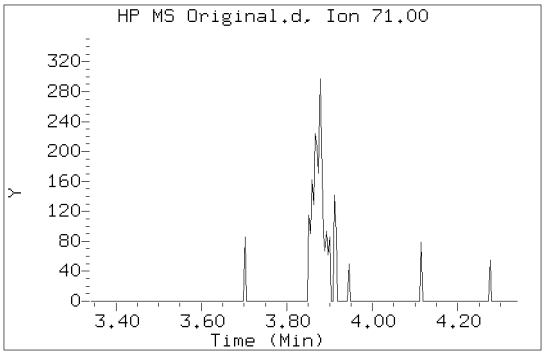
AFTER

MASS
42
AREA
614
HEIGHT
524
30-Mar-2023
12:41
linh
pham



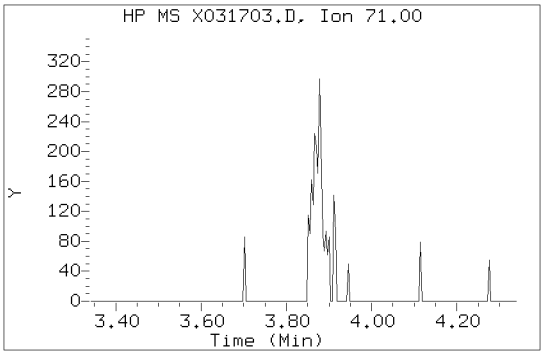
BEFORE

MASS
71
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
71
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

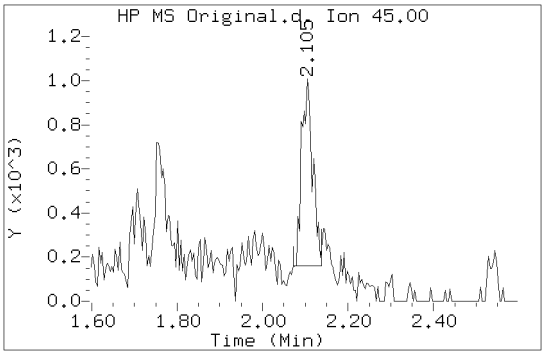


Isopropyl alcohol (67-63-0)

Reason Code:

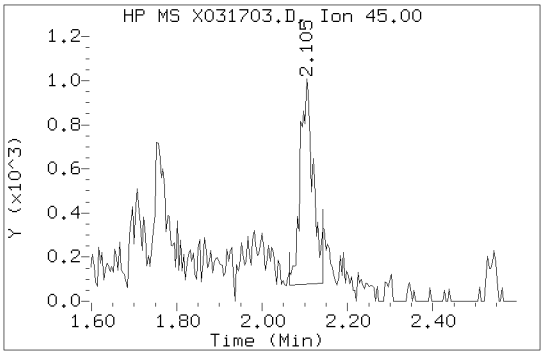
BEFORE

MASS
45
AREA
1548
HEIGHT
848
30-Mar-2023
12:33
linh
pham



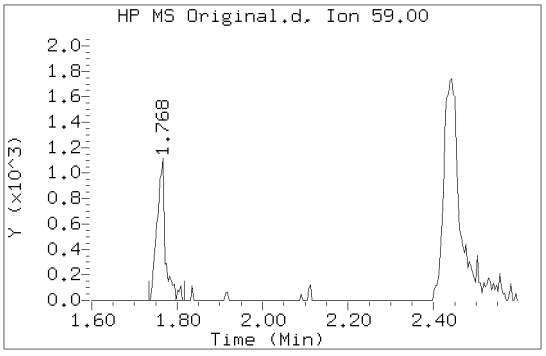
AFTER

MASS
45
AREA
1979
HEIGHT
930
30-Mar-2023
12:41
linh
pham



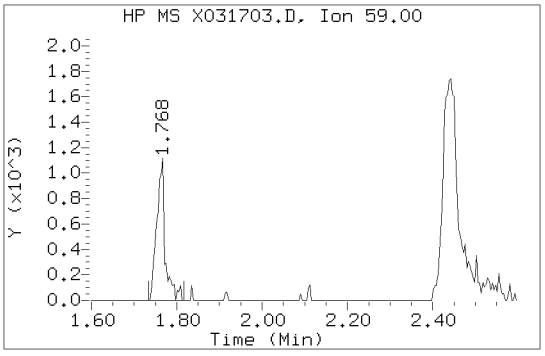
BEFORE

MASS
59
AREA
1523
HEIGHT
1120
30-Mar-2023
12:33
linh
pham



AFTER

MASS
59
AREA
1523
HEIGHT
1120
30-Mar-2023
12:41
linh
pham



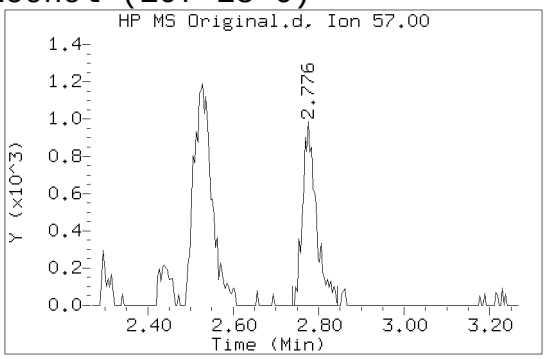
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Allyl alcohol (107-18-6)

Reason Code:

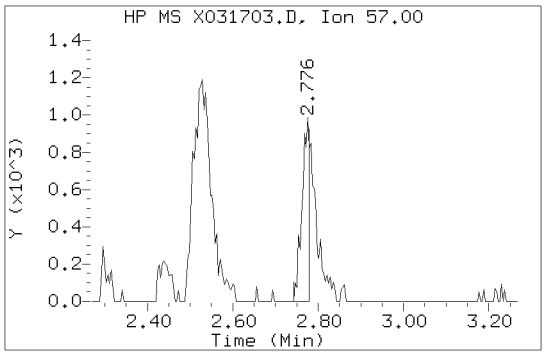
BEFORE

MASS
57
AREA
2232
HEIGHT
989
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
1223
HEIGHT
989
30-Mar-2023
12:41
linh
pham

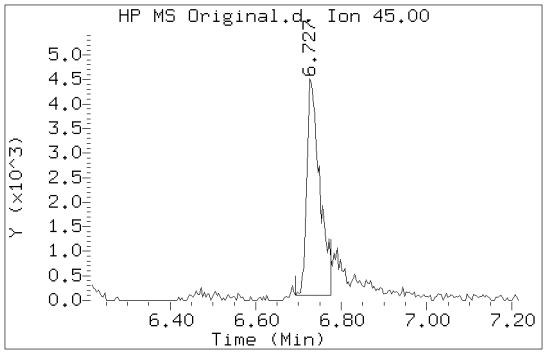


4-Methyl-2-pentanol (108-11-2)

Reason Code:

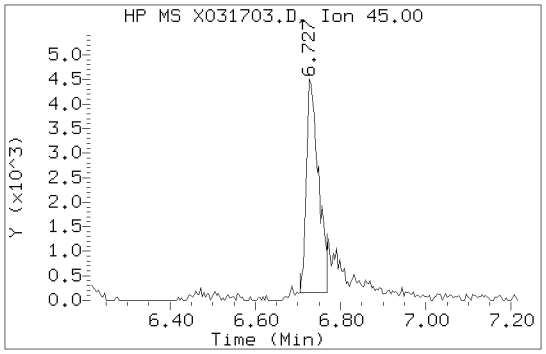
BEFORE

MASS
45
AREA
9346
HEIGHT
4407
30-Mar-2023
12:33
linh
pham



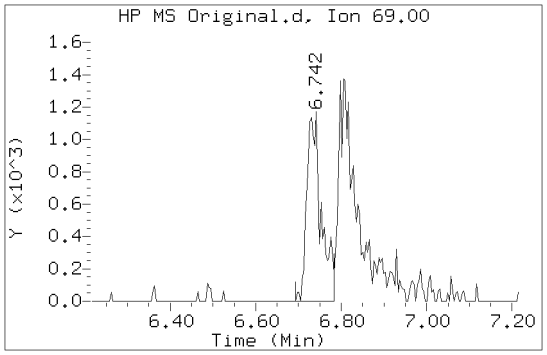
AFTER

MASS
45
AREA
8689
HEIGHT
4355
30-Mar-2023
12:41
linh
pham



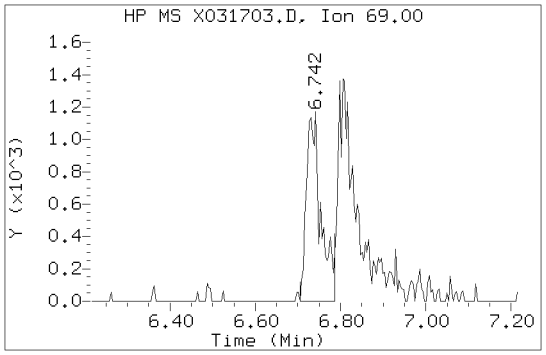
BEFORE

MASS
69
AREA
2745
HEIGHT
1173
30-Mar-2023
12:33
linh
pham



AFTER

MASS
69
AREA
2787
HEIGHT
1173
30-Mar-2023
12:41
linh
pham

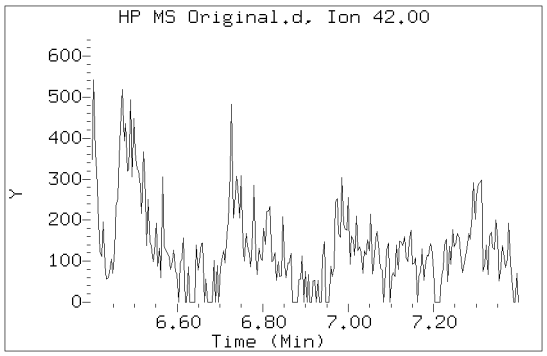


Amyl alcohol (71-41-0)

Reason Code:

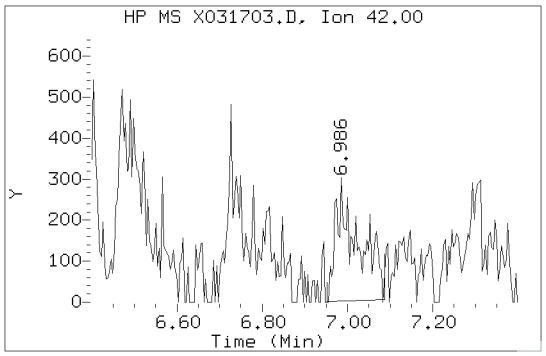
BEFORE

MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
42
AREA
1078
HEIGHT
301
30-Mar-2023
12:41
linh
pham



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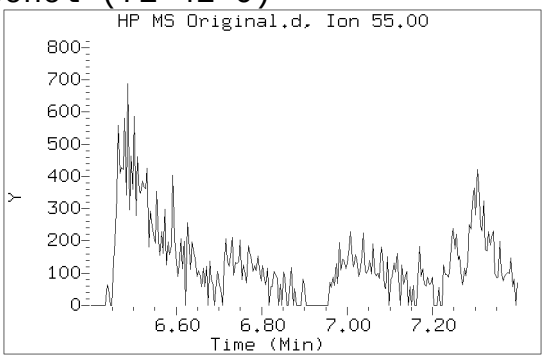
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Amyl alcohol (71-41-0)

BEFORE
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER
MASS
55
AREA
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HEIGHT
0
30-Mar-2023
12:41
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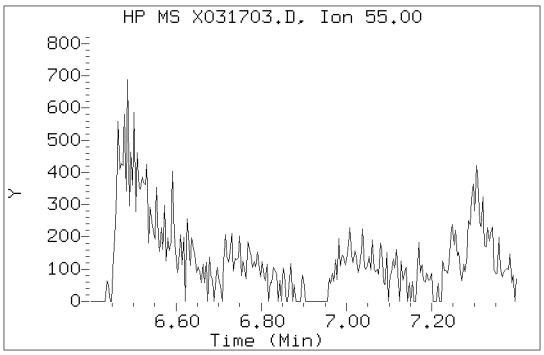

BEFORE
MASS
41
AREA
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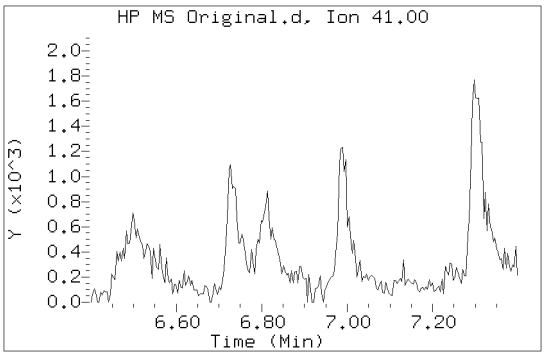
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
41
AREA
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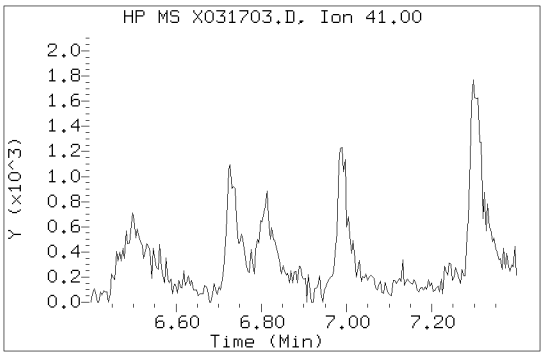
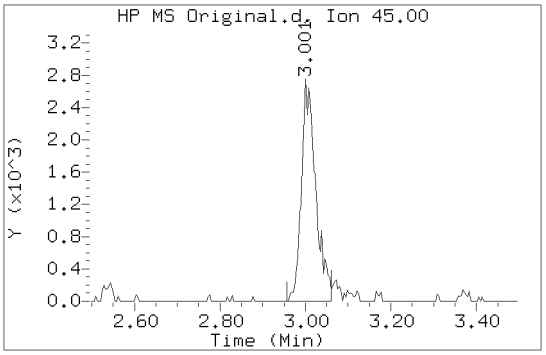
HEIGHT
0
30-Mar-2023
12:41
linh
pham



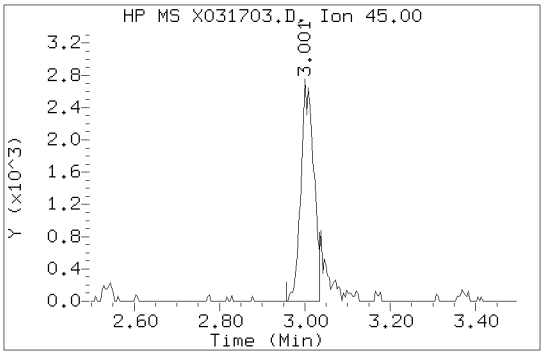
Diisopropyl ether (108-20-3)

BEFORE
MASS
45
AREA
6493
HEIGHT
2756
30-Mar-2023
12:33
linh
pham

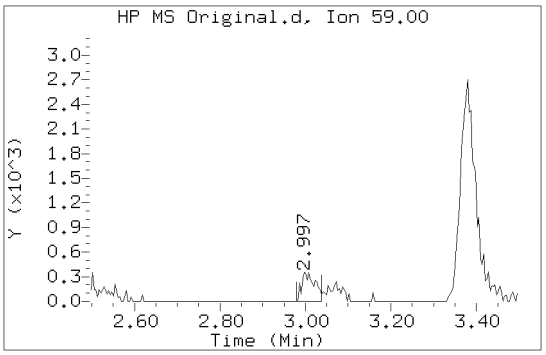


Reason Code:

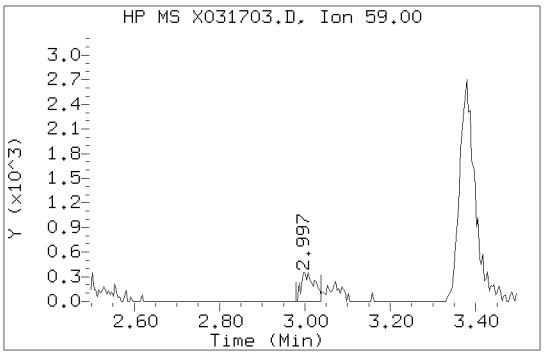
AFTER
MASS
45
AREA
5833
HEIGHT
2756
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
59
AREA
777
HEIGHT
355
30-Mar-2023
12:33
linh
pham



AFTER
MASS
59
AREA
777
HEIGHT
355
30-Mar-2023
12:41
linh
pham



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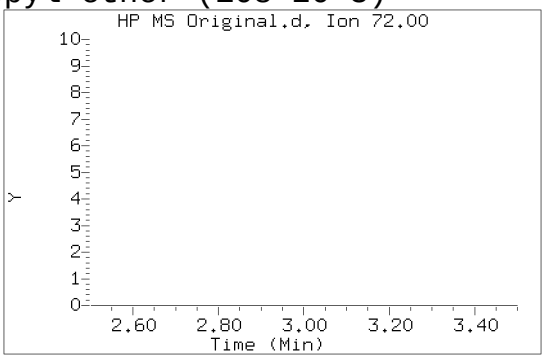
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Diisopropyl ether (108-20-3)

Reason Code:

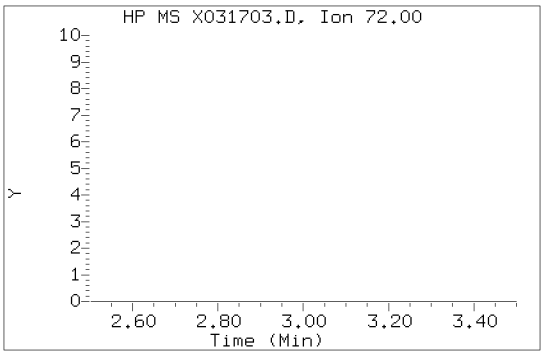
BEFORE

MASS
72
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
72
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

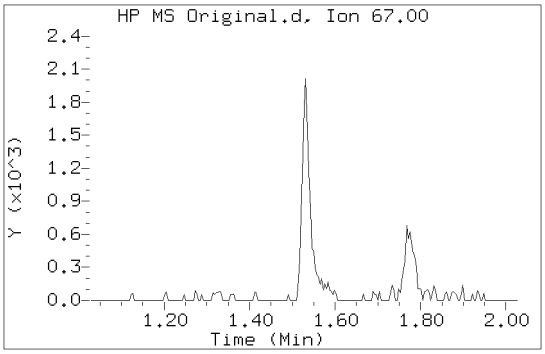


Dichlorofluoromethane (75-43-4)

Reason Code:

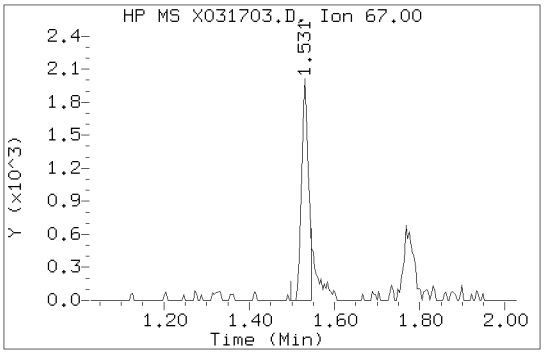
BEFORE

MASS
67
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



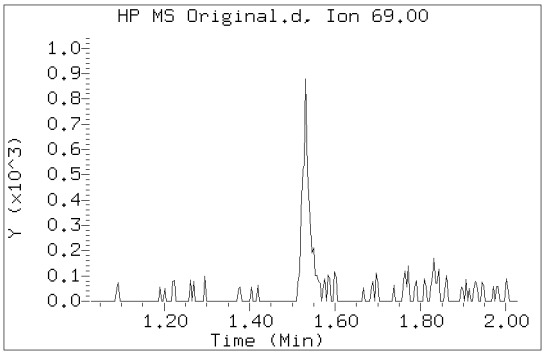
AFTER

MASS
67
AREA
2337
HEIGHT
2013
30-Mar-2023
12:41
linh
pham



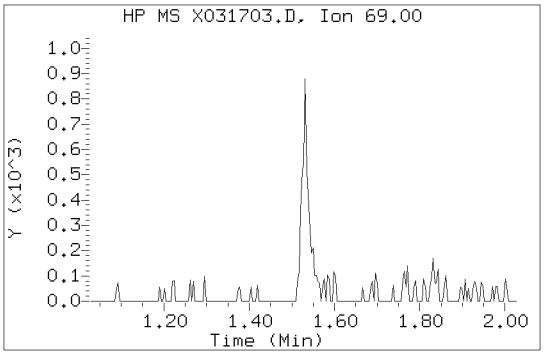
BEFORE

MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



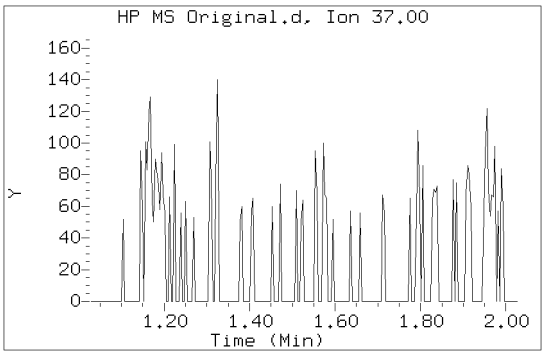
AFTER

MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



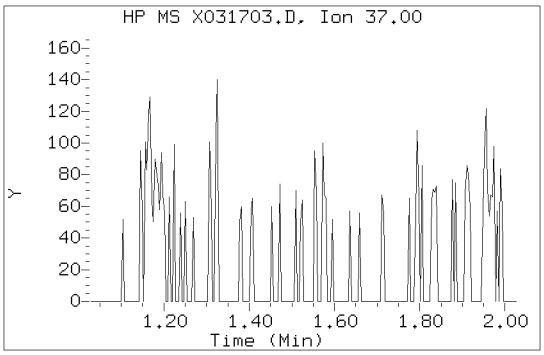
BEFORE

MASS
37
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
37
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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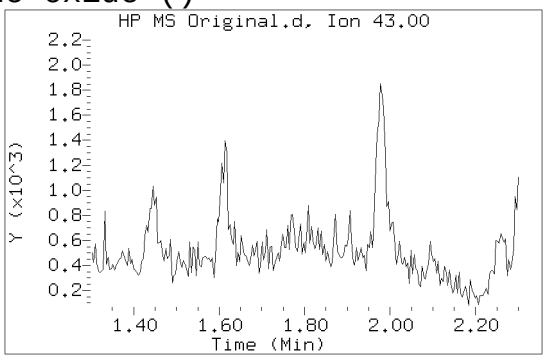
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

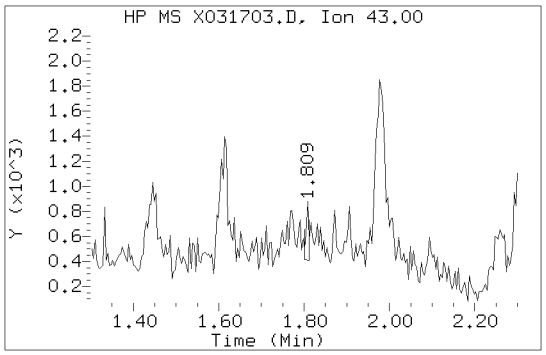
Propylene oxide ()

Reason Code:

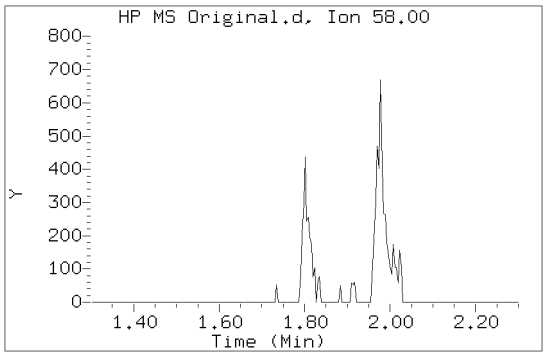
BEFORE
MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



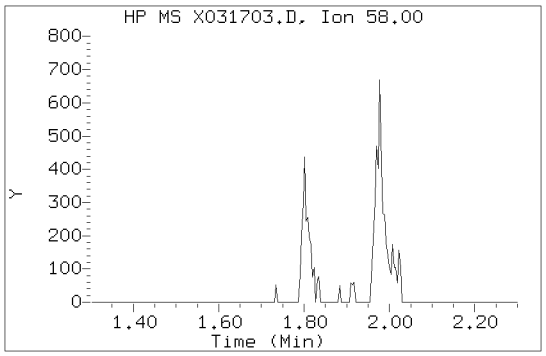
AFTER
MASS
43
AREA
209
HEIGHT
466
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



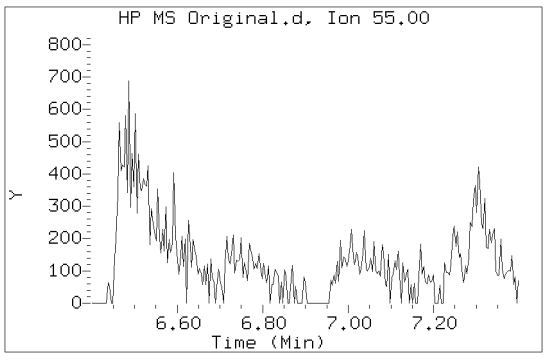
AFTER
MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



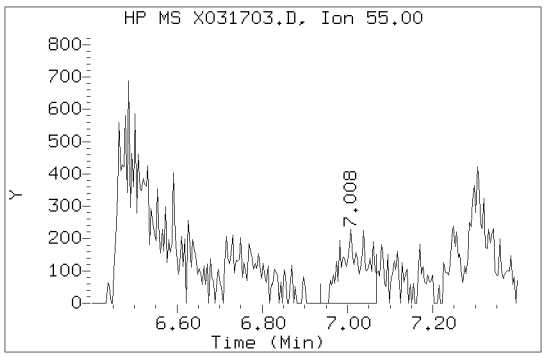
3-Methyl-1-butanol (123-51-3)

Reason Code:

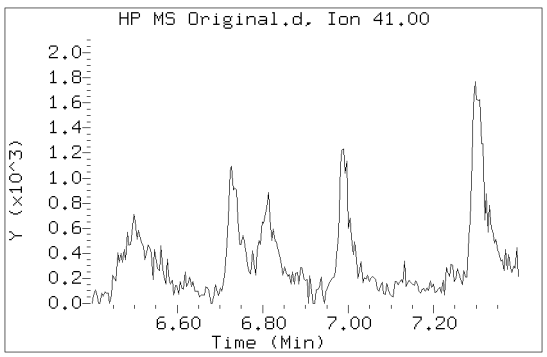
BEFORE
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



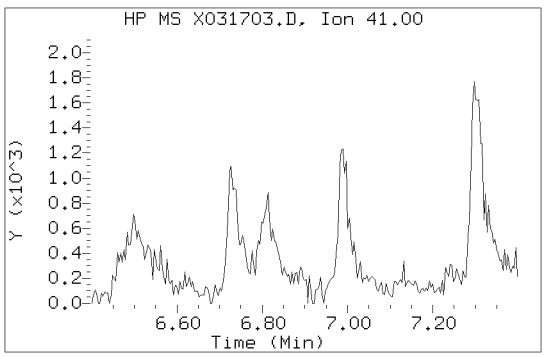
AFTER
MASS
55
AREA
851
HEIGHT
229
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



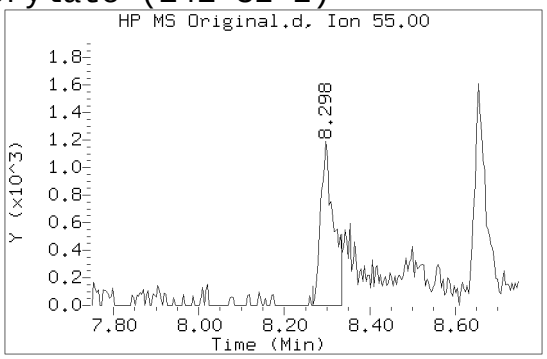
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Butyl acrylate (141-32-2)

Reason Code:

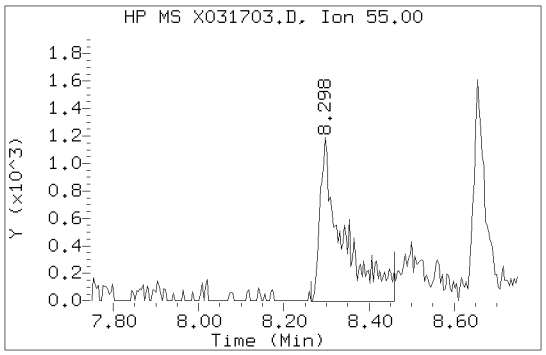
BEFORE

MASS
55
AREA
2500
HEIGHT
1190
30-Mar-2023
12:33
linh
pham



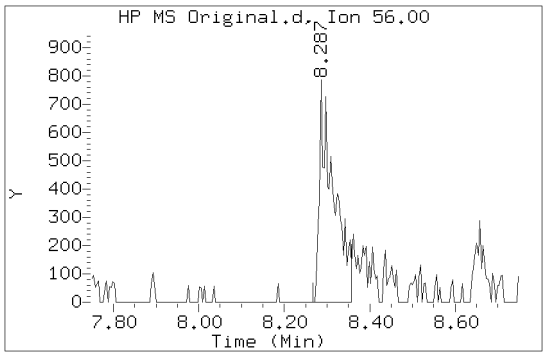
AFTER

MASS
55
AREA
4463
HEIGHT
1193
30-Mar-2023
12:41
linh
pham



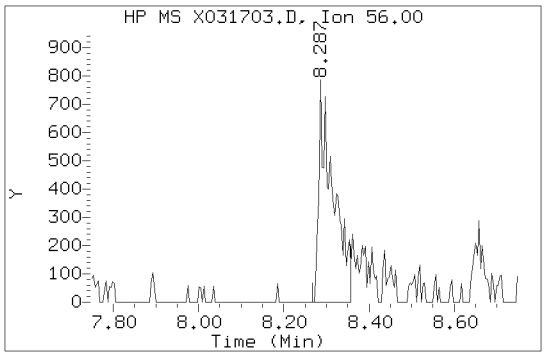
BEFORE

MASS
56
AREA
1802
HEIGHT
786
30-Mar-2023
12:33
linh
pham



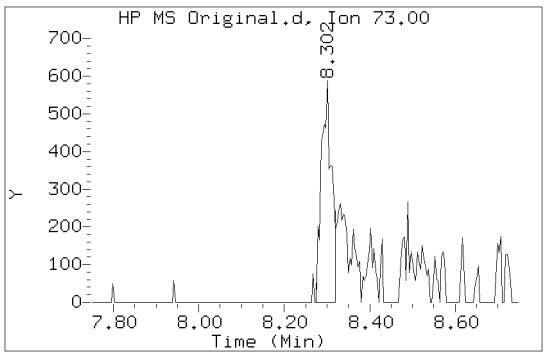
AFTER

MASS
56
AREA
1802
HEIGHT
786
30-Mar-2023
12:41
linh
pham



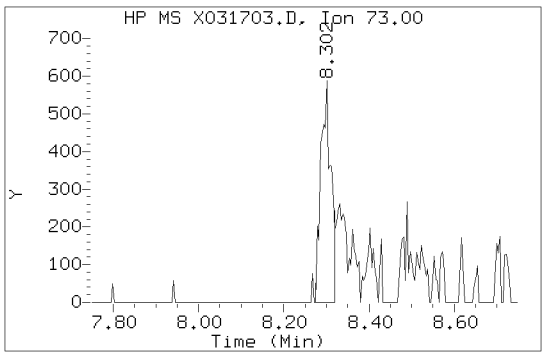
BEFORE

MASS
73
AREA
966
HEIGHT
588
30-Mar-2023
12:33
linh
pham



AFTER

MASS
73
AREA
966
HEIGHT
588
30-Mar-2023
12:41
linh
pham

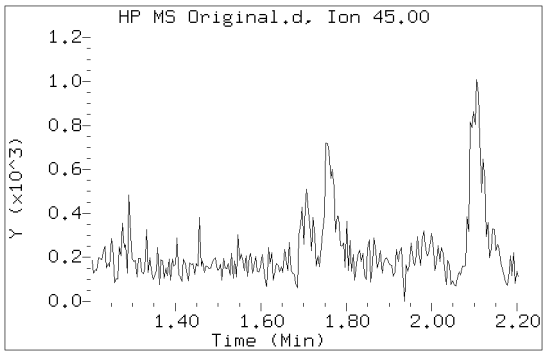


Ethanol (64-17-5)

Reason Code:

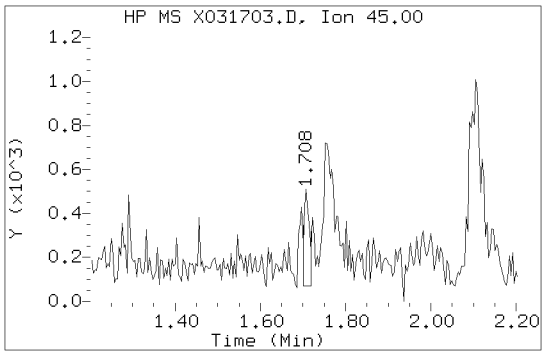
BEFORE

MASS
45
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
45
AREA
398
HEIGHT
440
30-Mar-2023
12:41
linh
pham

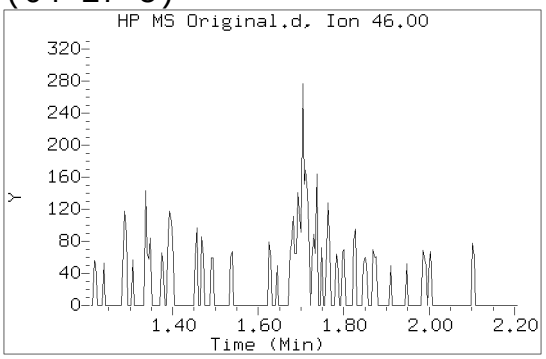


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Ethanol (64-17-5)

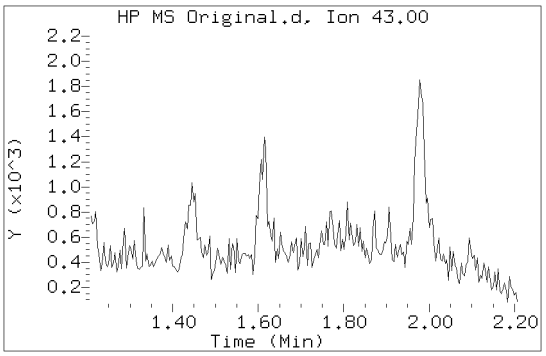
BEFORE

MASS
46
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



BEFORE

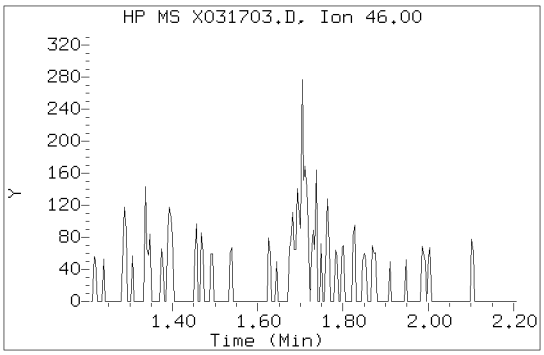
MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

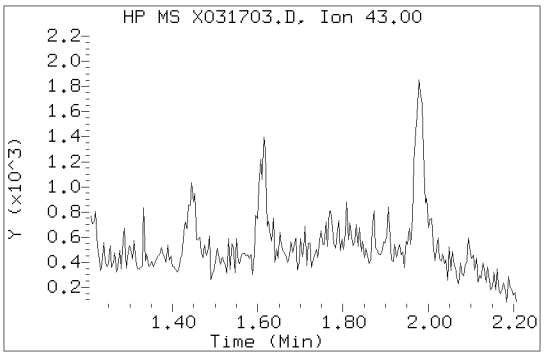
AFTER

MASS
46
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



AFTER

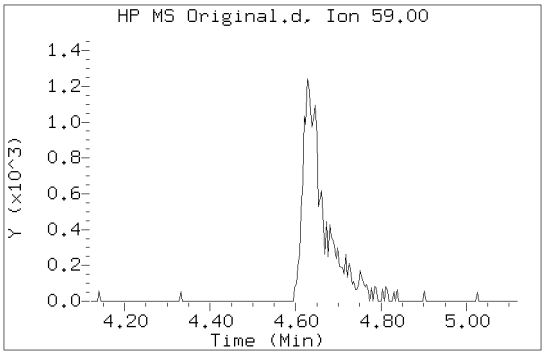
MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



tert-Butyl formate (762-75-4)

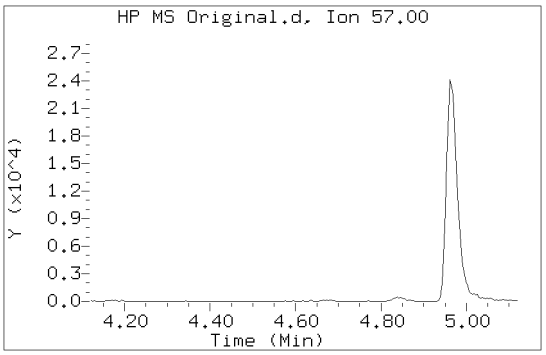
BEFORE

MASS
59
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



BEFORE

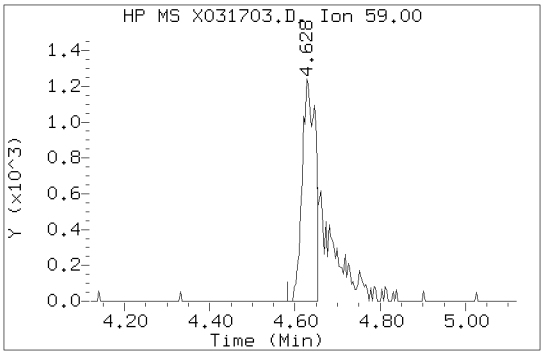
MASS
57
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

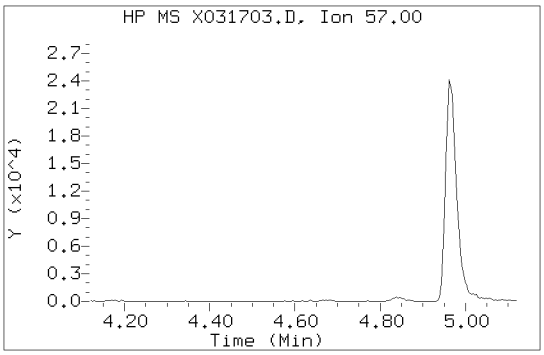
AFTER

MASS
59
AREA
2676
HEIGHT
1242
30-Mar-2023
12:41
linh
pham



AFTER

MASS
57
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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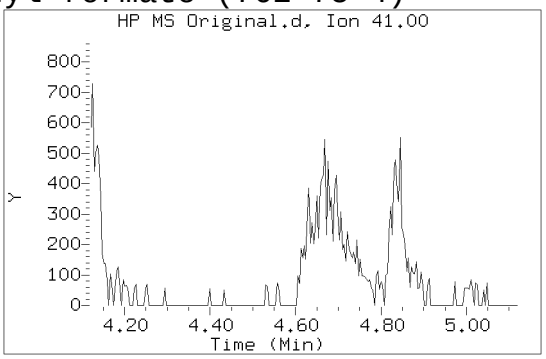
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
41
AREA
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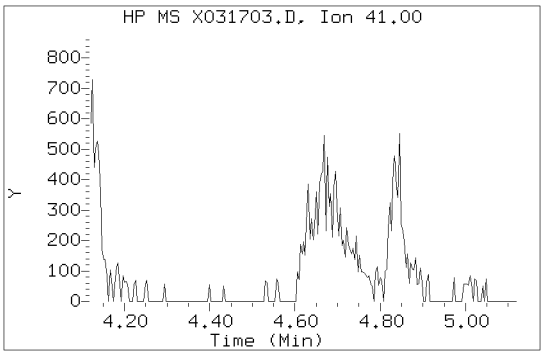
HEIGHT
0
30-Mar-2023
12:41
linh
pham



3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE
MASS
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AREA
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HEIGHT
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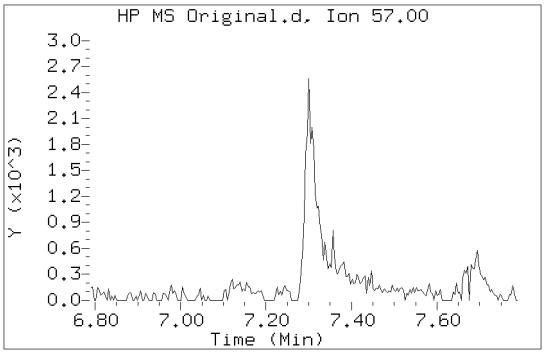
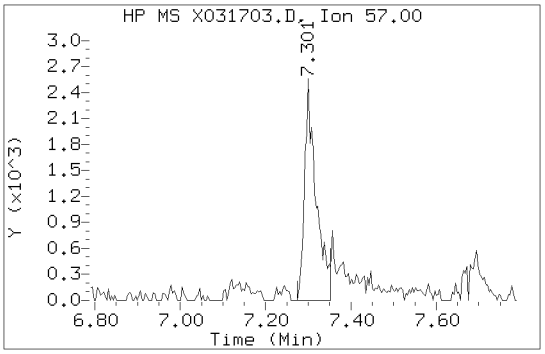
30-Mar-2023
12:33
linh
pham



AFTER
MASS
57
AREA
4857
HEIGHT
2561
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
67
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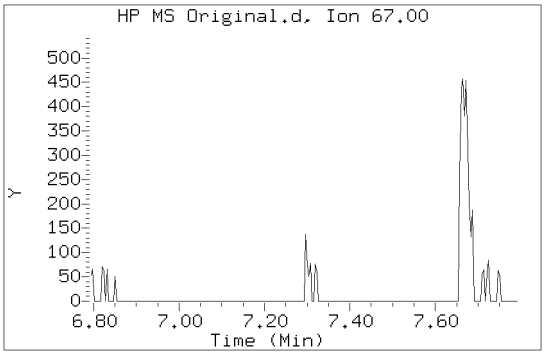
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
67
AREA
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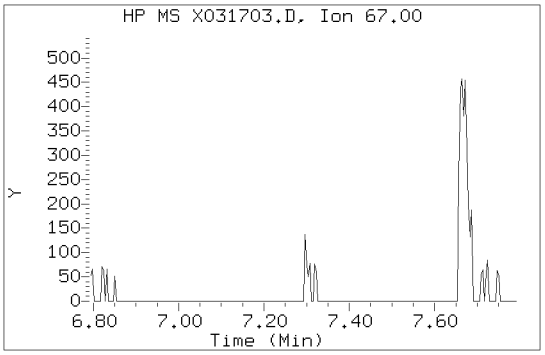
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
56
AREA
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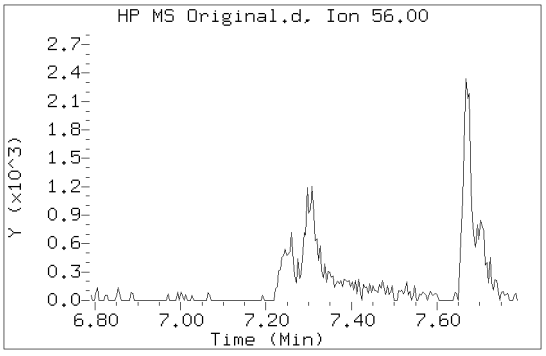
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
56
AREA
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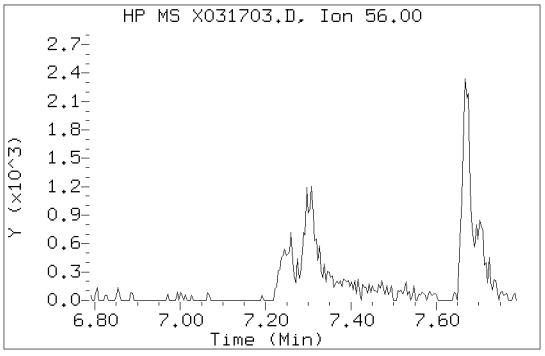
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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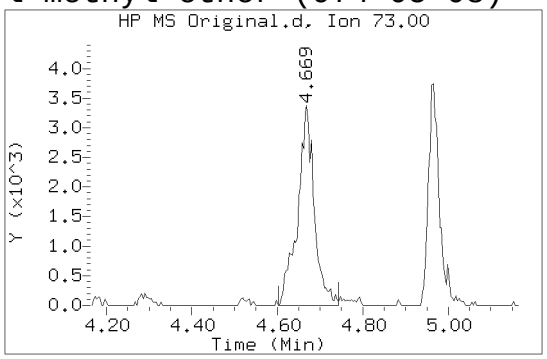
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

tert-Amyl methyl ether (974-05-08)

Reason Code:

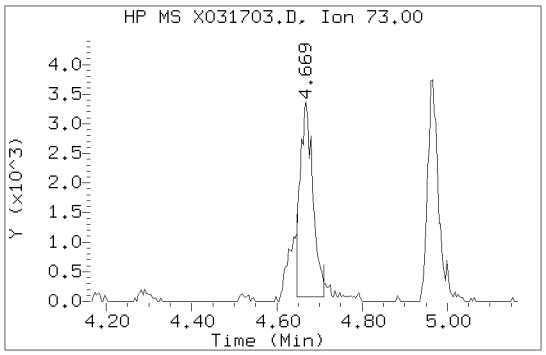
BEFORE

MASS
73
AREA
9221
HEIGHT
3379
30-Mar-2023
12:33
linh
pham



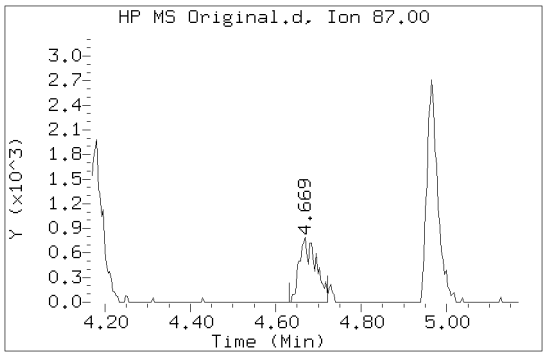
AFTER

MASS
73
AREA
7050
HEIGHT
3307
30-Mar-2023
12:41
linh
pham



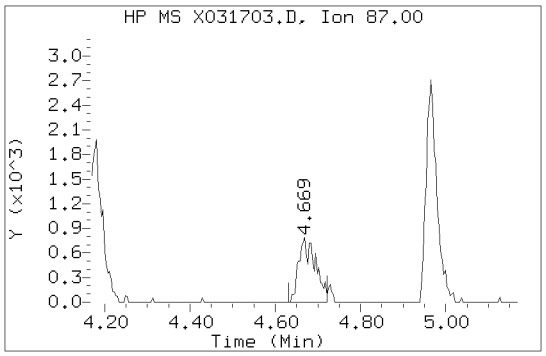
BEFORE

MASS
87
AREA
2185
HEIGHT
790
30-Mar-2023
12:33
linh
pham



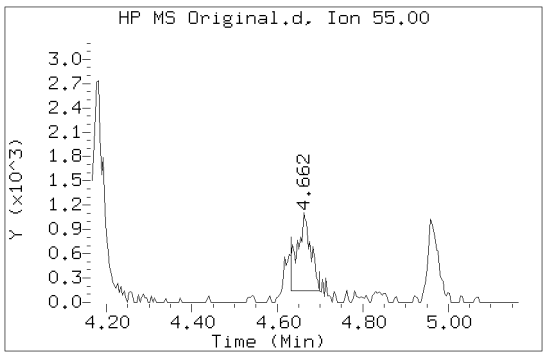
AFTER

MASS
87
AREA
2185
HEIGHT
790
30-Mar-2023
12:41
linh
pham



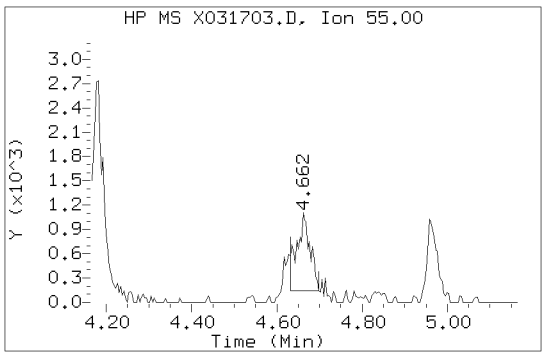
BEFORE

MASS
55
AREA
2163
HEIGHT
964
30-Mar-2023
12:33
linh
pham



AFTER

MASS
55
AREA
2163
HEIGHT
964
30-Mar-2023
12:41
linh
pham

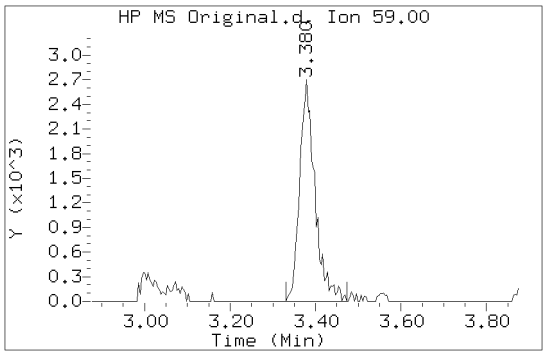


tert-Butyl ethyl ether (637-92-3)

Reason Code:

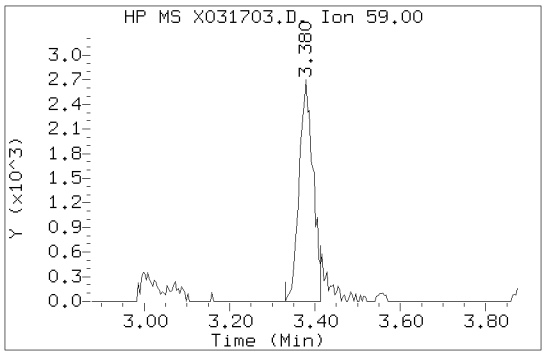
BEFORE

MASS
59
AREA
6822
HEIGHT
2701
30-Mar-2023
12:33
linh
pham



AFTER

MASS
59
AREA
6191
HEIGHT
2701
30-Mar-2023
12:41
linh
pham



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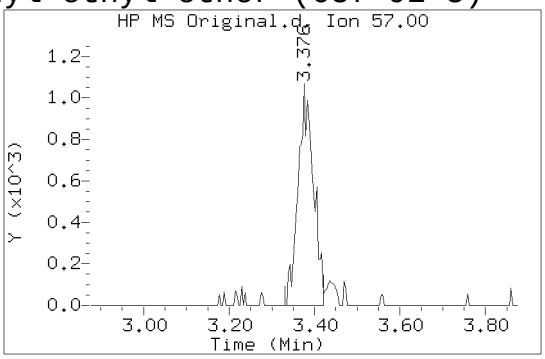
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

tert-Butyl ethyl ether (637-92-3)

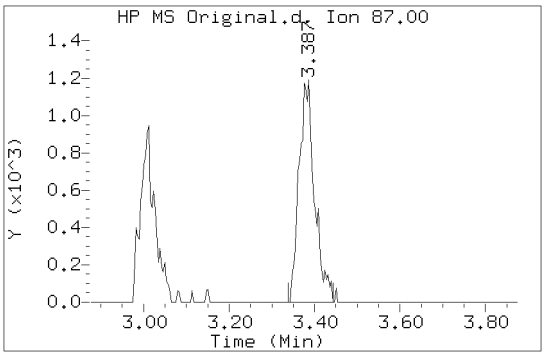
BEFORE

MASS
57
AREA
2669
HEIGHT
1069
30-Mar-2023
12:33
linh
pham



BEFORE

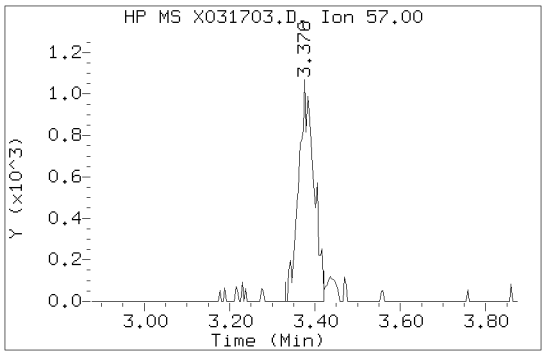
MASS
87
AREA
3036
HEIGHT
1191
30-Mar-2023
12:33
linh
pham



Reason Code:

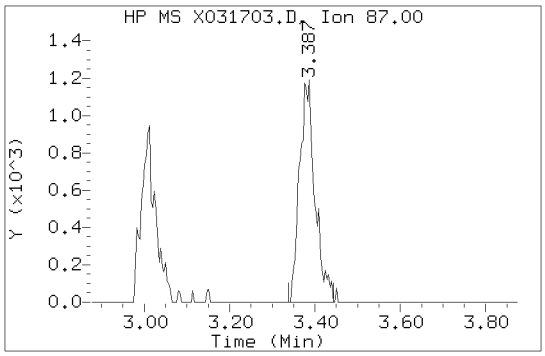
AFTER

MASS
57
AREA
2669
HEIGHT
1069
30-Mar-2023
12:41
linh
pham



AFTER

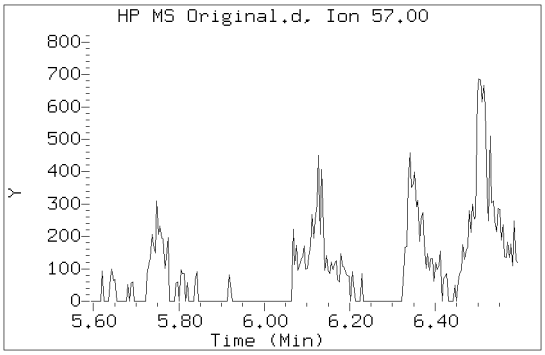
MASS
87
AREA
3036
HEIGHT
1191
30-Mar-2023
12:41
linh
pham



Epichlorohydrin (106-89-8)

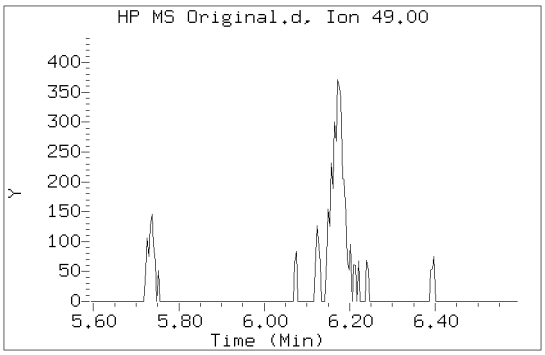
BEFORE

MASS
57
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



BEFORE

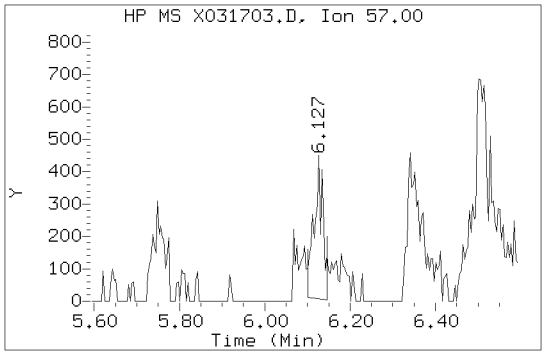
MASS
49
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

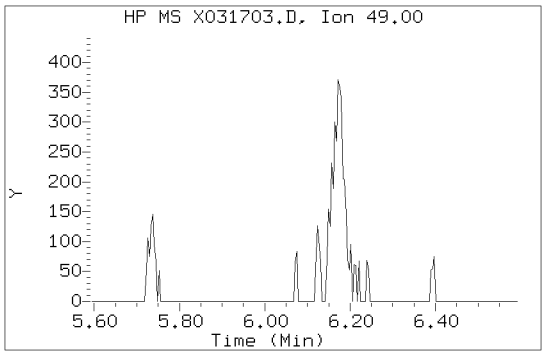
AFTER

MASS
57
AREA
641
HEIGHT
443
30-Mar-2023
12:41
linh
pham



AFTER

MASS
49
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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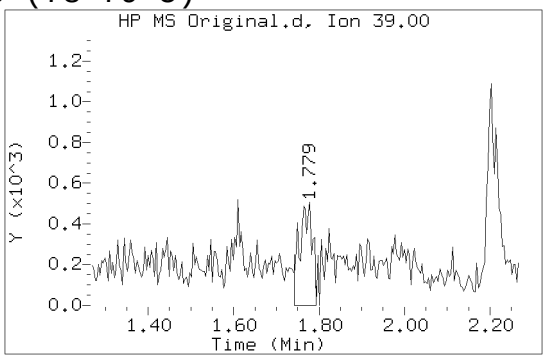
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Isoprene (78-79-5)

Reason Code:

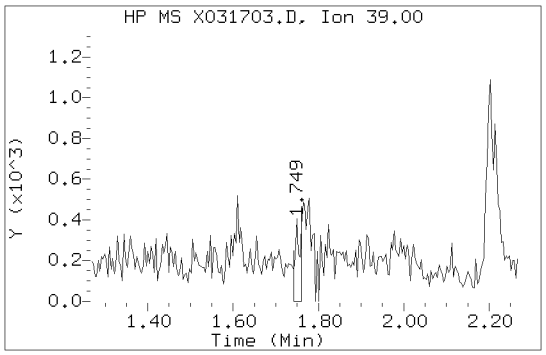
BEFORE

MASS
39
AREA
1078
HEIGHT
508
30-Mar-2023
12:33
linh
pham



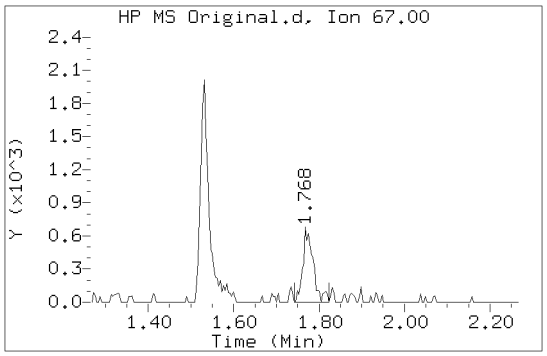
AFTER

MASS
39
AREA
361
HEIGHT
407
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
67
AREA
1162
HEIGHT
679
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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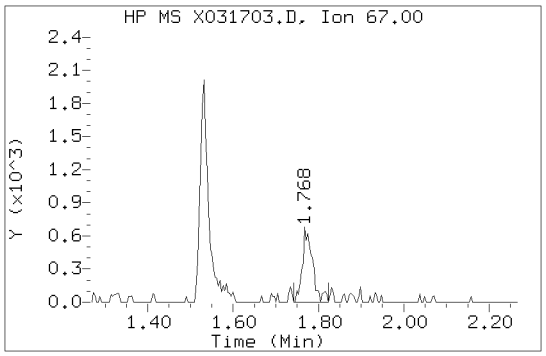
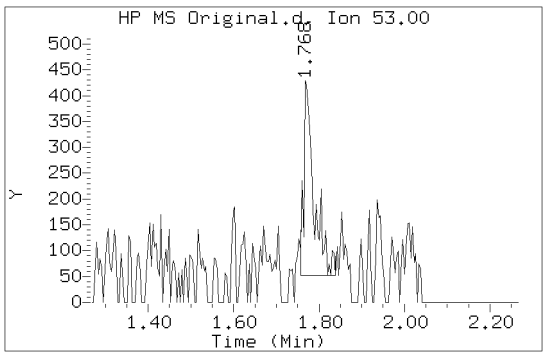
1162
HEIGHT
679
30-Mar-2023
12:41
linh
pham



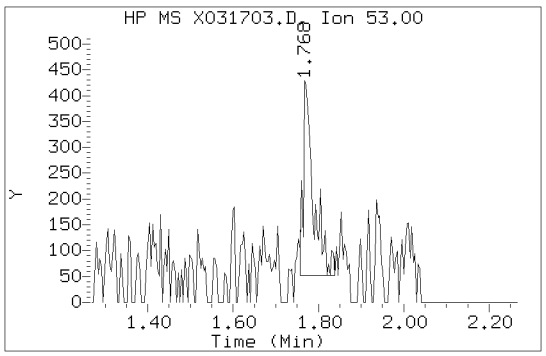
BEFORE

MASS
53
AREA
632
HEIGHT
377
30-Mar-2023
12:33
linh
pham



AFTER

MASS
53
AREA
632
HEIGHT
377
30-Mar-2023
12:41
linh
pham

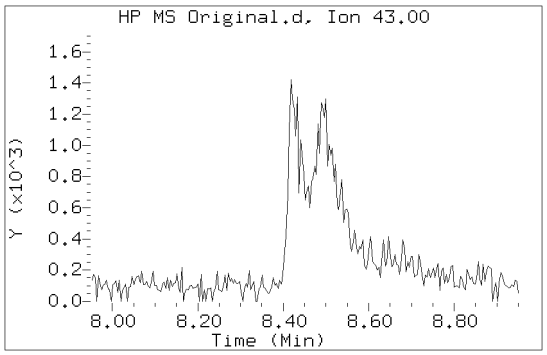


n-Amyl acetate (628-63-7)

Reason Code:

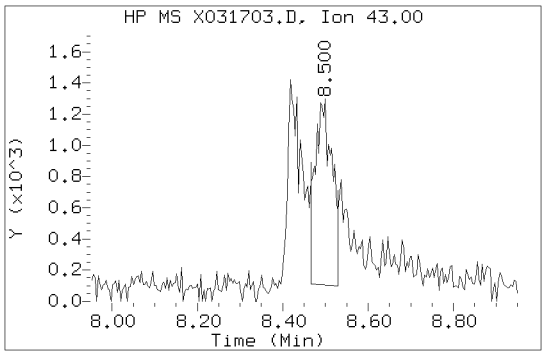
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
AREA
3393
HEIGHT
1193
30-Mar-2023
12:41
linh
pham



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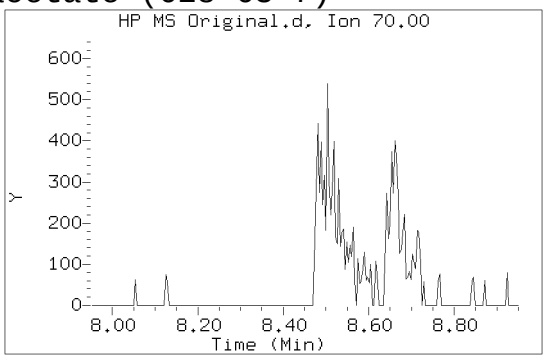
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

n-Amyl acetate (628-63-7)

Reason Code:

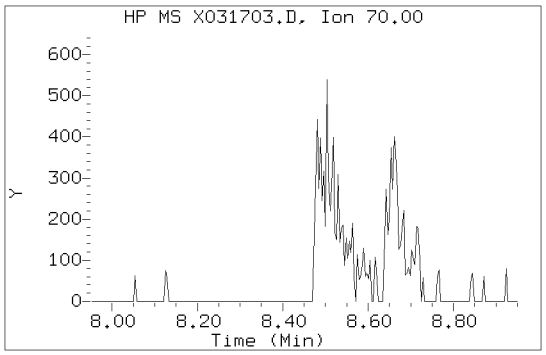
BEFORE

MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



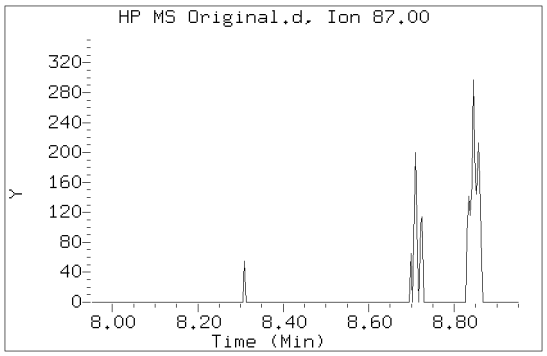
AFTER

MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



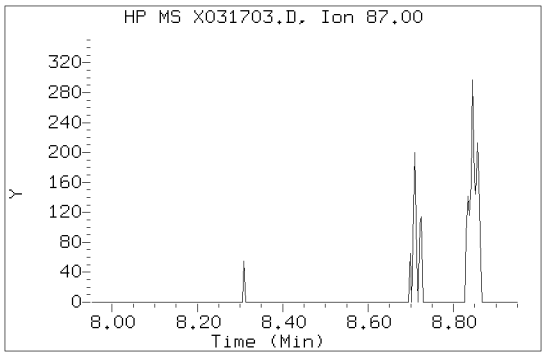
BEFORE

MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

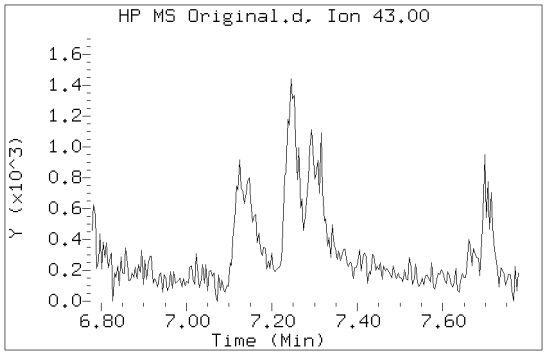


n-Butyl acetate (123-86-4)

Reason Code:

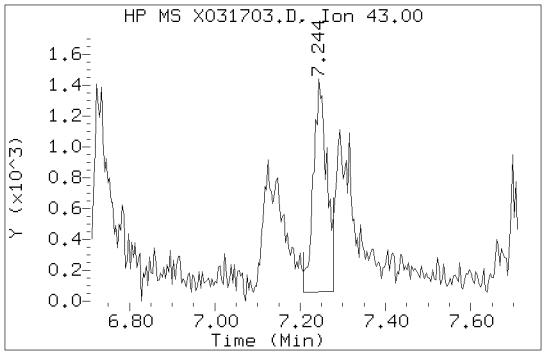
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
AREA
3030
HEIGHT
1378
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
56
AREA
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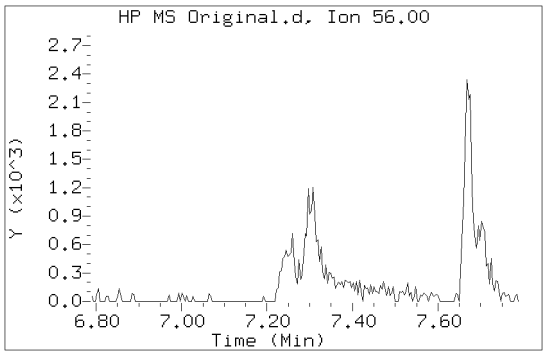
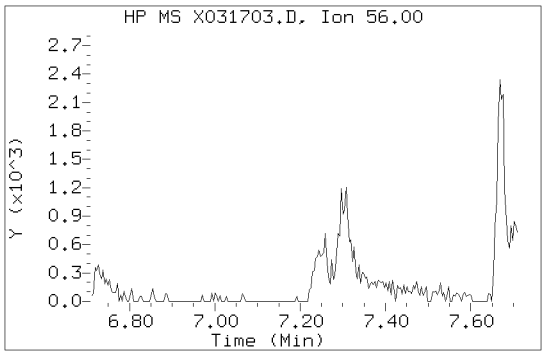
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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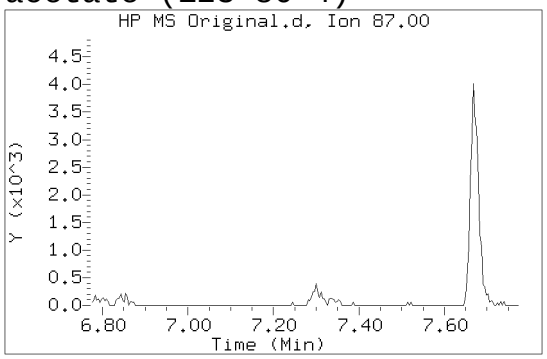
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

n-Butyl acetate (123-86-4)

BEFORE

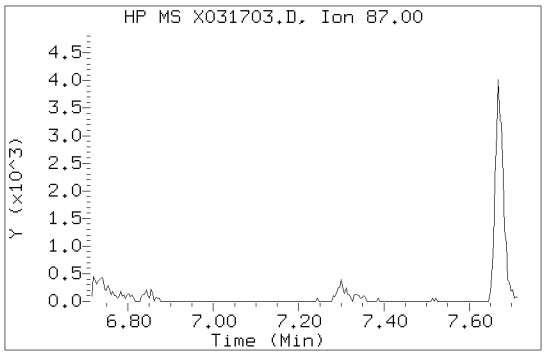
MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

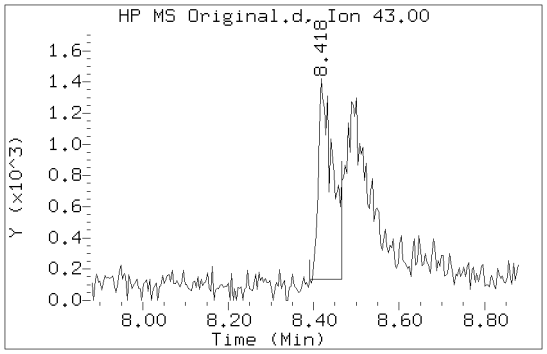
MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



Methyl Amyl Ketone (110-43-0)

BEFORE

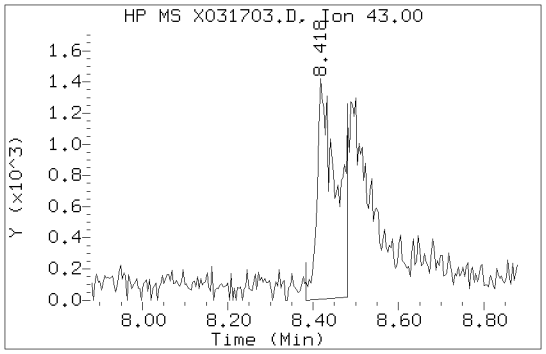
MASS
43
AREA
3008
HEIGHT
1286
30-Mar-2023
12:33
linh
pham



Reason Code:

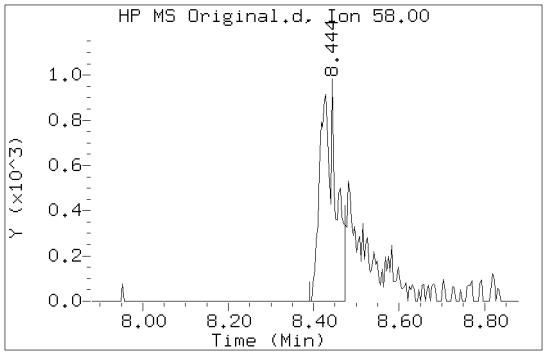
AFTER

MASS
43
AREA
4445
HEIGHT
1414
30-Mar-2023
12:41
linh
pham



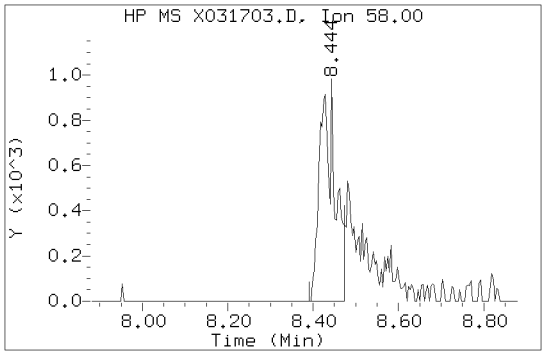
BEFORE

MASS
58
AREA
2410
HEIGHT
983
30-Mar-2023
12:33
linh
pham



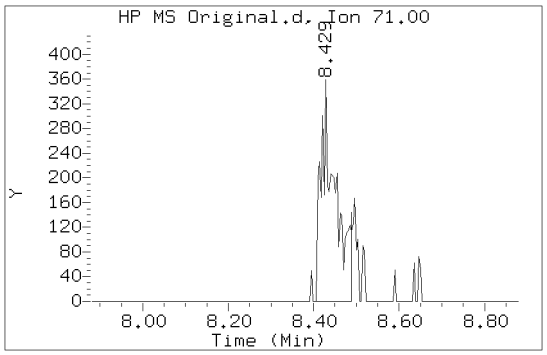
AFTER

MASS
58
AREA
2410
HEIGHT
983
30-Mar-2023
12:41
linh
pham



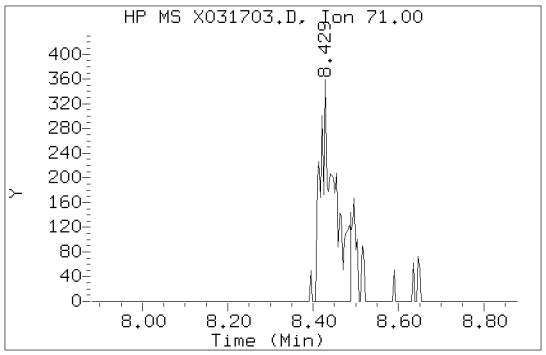
BEFORE

MASS
71
AREA
846
HEIGHT
359
30-Mar-2023
12:33
linh
pham



AFTER

MASS
71
AREA
846
HEIGHT
359
30-Mar-2023
12:41
linh
pham



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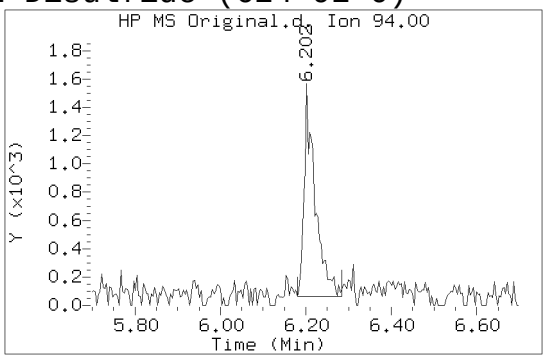
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

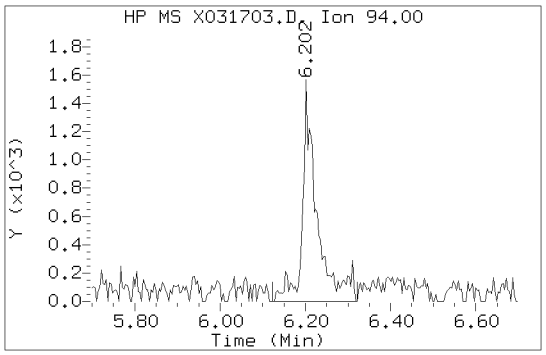
Dimethyl Disulfide (624-92-0)

Reason Code:

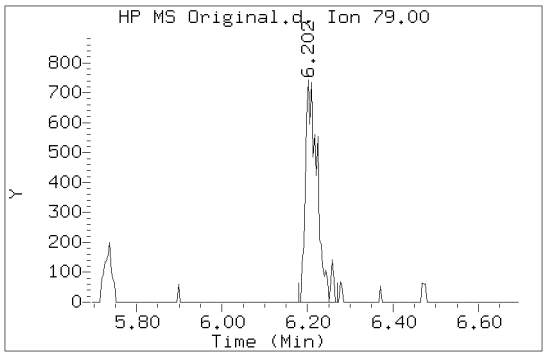
BEFORE
MASS
94
AREA
2708
HEIGHT
1503
30-Mar-2023
12:33
linh
pham



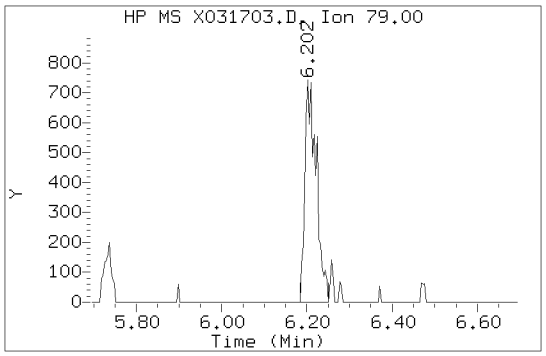
AFTER
MASS
94
AREA
3700
HEIGHT
1567
30-Mar-2023
12:41
linh
pham



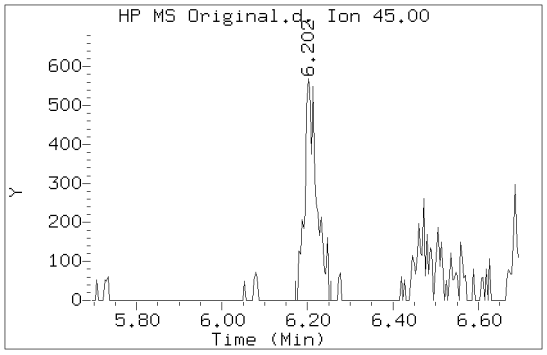
BEFORE
MASS
79
AREA
1457
HEIGHT
743
30-Mar-2023
12:33
linh
pham



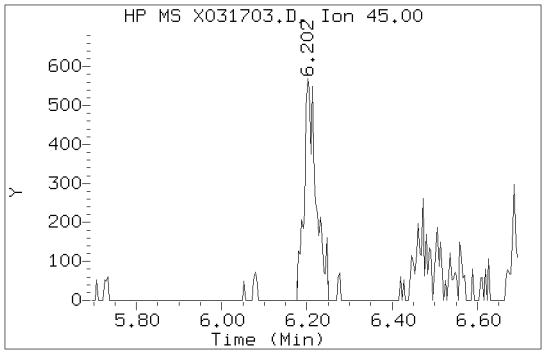
AFTER
MASS
79
AREA
1393
HEIGHT
743
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
45
AREA
1130
HEIGHT
569
30-Mar-2023
12:33
linh
pham



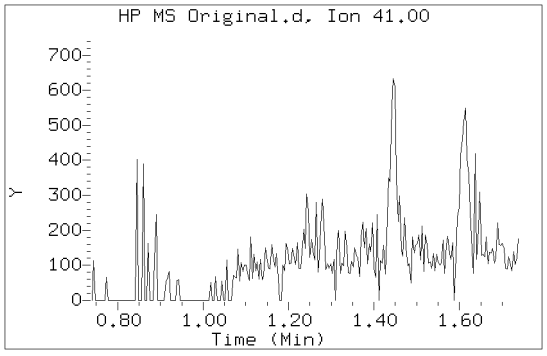
AFTER
MASS
45
AREA
1130
HEIGHT
569
30-Mar-2023
12:41
linh
pham



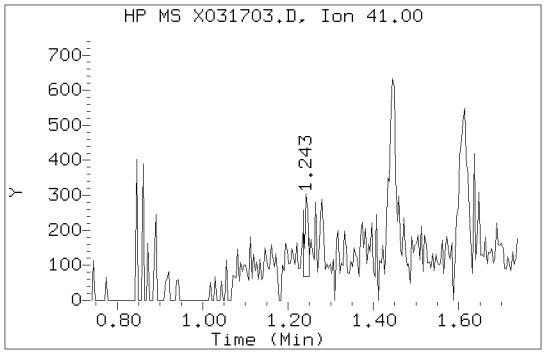
Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
41
AREA
156
HEIGHT
236
30-Mar-2023
12:41
linh
pham



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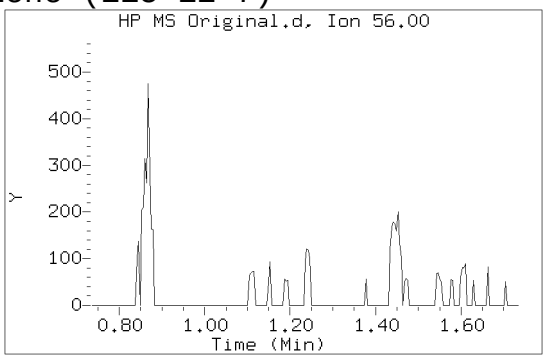
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

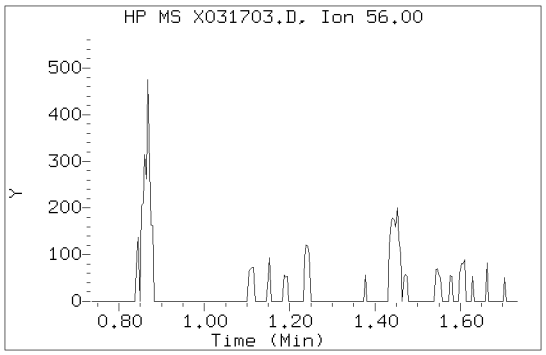
Isobutylene (115-11-7)

Reason Code:

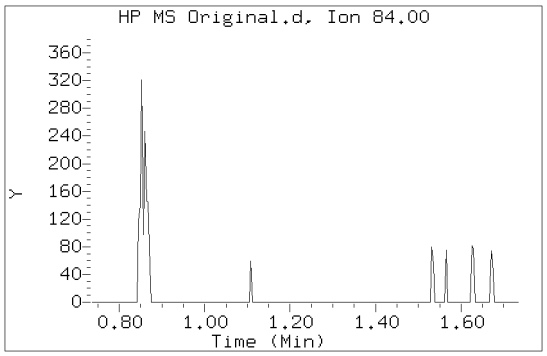
BEFORE
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



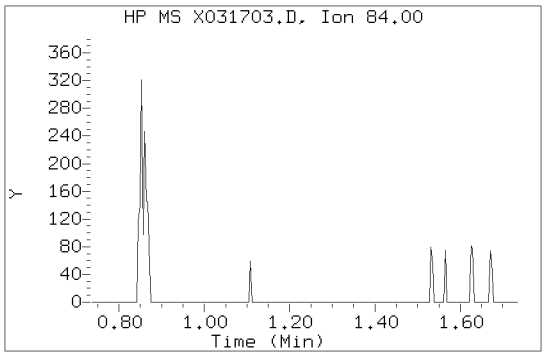
AFTER
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
84
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



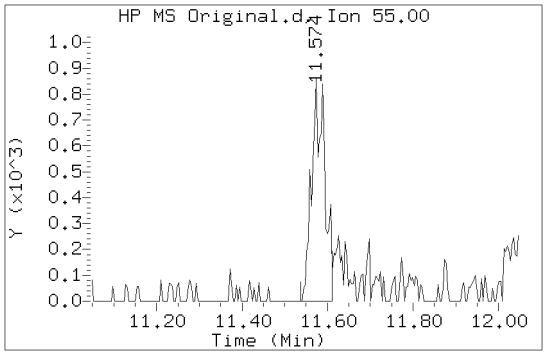
AFTER
MASS
84
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



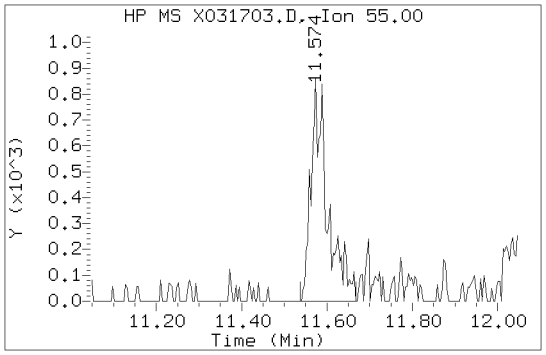
2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

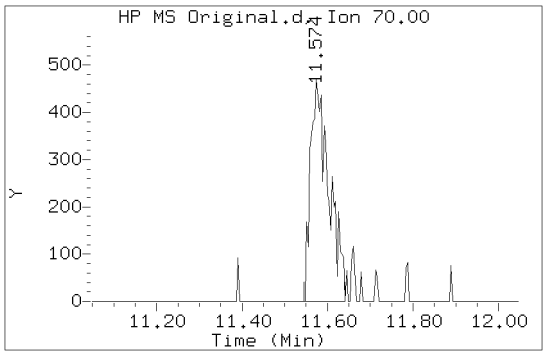
BEFORE
MASS
55
AREA
1818
HEIGHT
859
30-Mar-2023
12:33
linh
pham



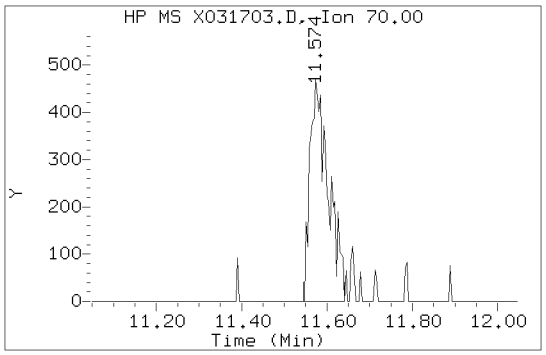
AFTER
MASS
55
AREA
2268
HEIGHT
859
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
70
AREA
1400
HEIGHT
469
30-Mar-2023
12:33
linh
pham



AFTER
MASS
70
AREA
1400
HEIGHT
469
30-Mar-2023
12:41
linh
pham



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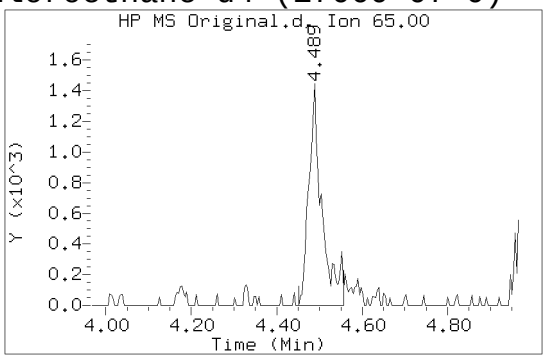
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,2-Dichloroethane-d4 (17060-07-0)

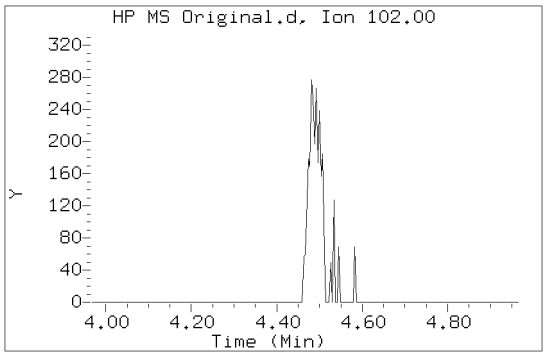
BEFORE

MASS
65
AREA
3081
HEIGHT
1446
30-Mar-2023
12:33
linh
pham



BEFORE

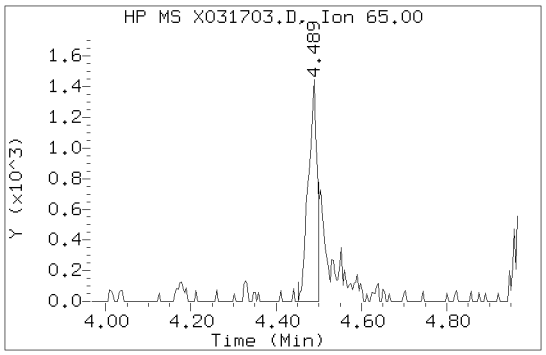
MASS
102
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

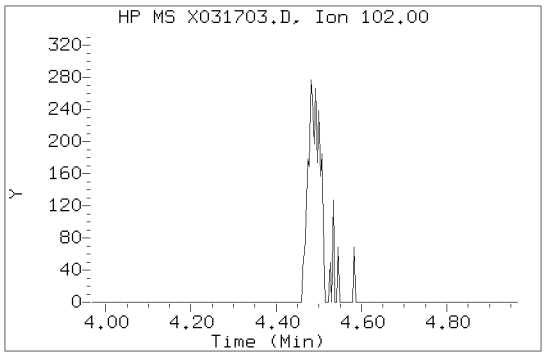
AFTER

MASS
65
AREA
2080
HEIGHT
1446
30-Mar-2023
12:41
linh
pham



AFTER

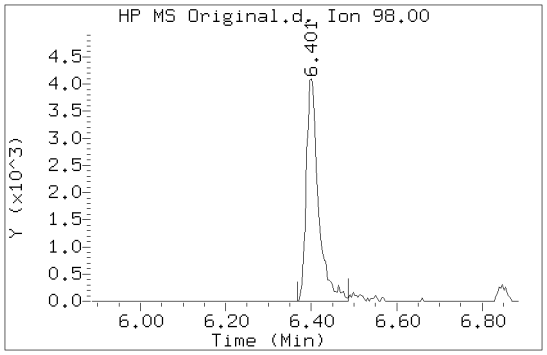
MASS
102
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



Toluene-d8 (2037-26-5)

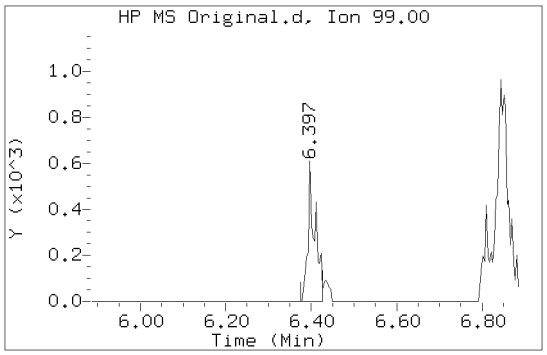
BEFORE

MASS
98
AREA
8177
HEIGHT
4094
30-Mar-2023
12:33
linh
pham



BEFORE

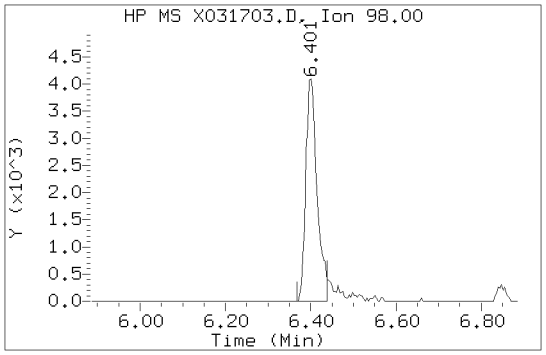
MASS
99
AREA
702
HEIGHT
610
30-Mar-2023
12:33
linh
pham



Reason Code:

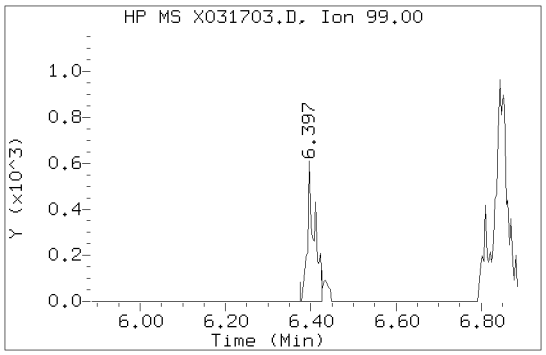
AFTER

MASS
98
AREA
7591
HEIGHT
4094
30-Mar-2023
12:41
linh
pham



AFTER

MASS
99
AREA
702
HEIGHT
610
30-Mar-2023
12:41
linh
pham



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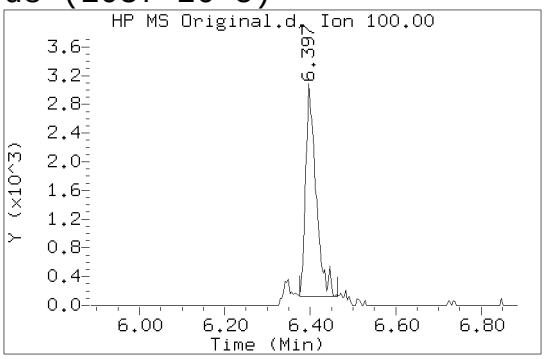
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Toluene-d8 (2037-26-5)

Reason Code:

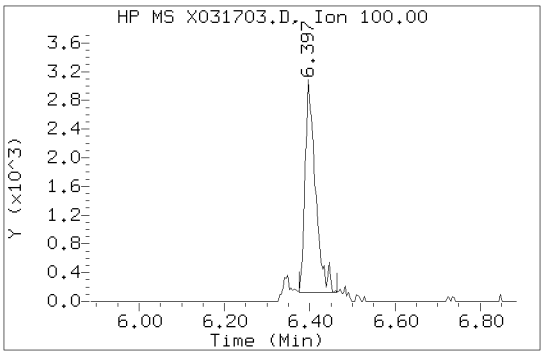
BEFORE

MASS
100
AREA
4977
HEIGHT
2959
30-Mar-2023
12:33
linh
pham



AFTER

MASS
100
AREA
4977
HEIGHT
2959
30-Mar-2023
12:41
linh
pham

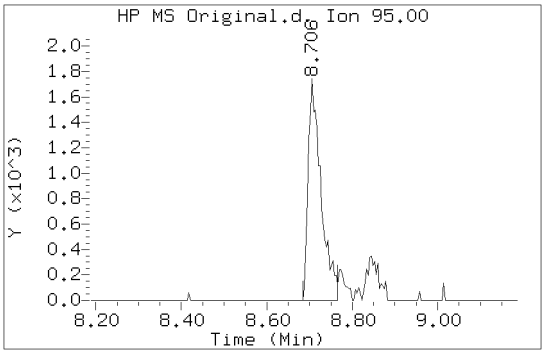


4-Bromofluorobenzene (460-00-4)

Reason Code:

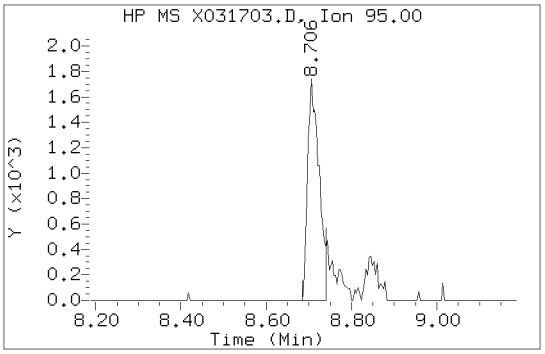
BEFORE

MASS
95
AREA
3649
HEIGHT
1743
30-Mar-2023
12:33
linh
pham



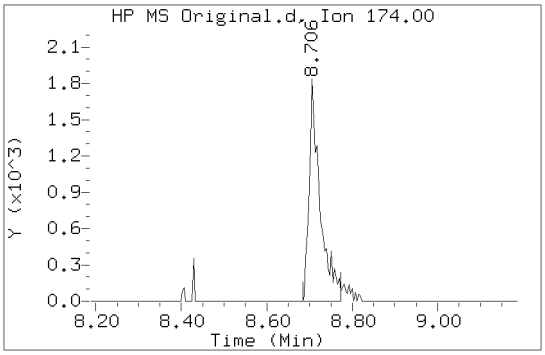
AFTER

MASS
95
AREA
3243
HEIGHT
1743
30-Mar-2023
12:41
linh
pham



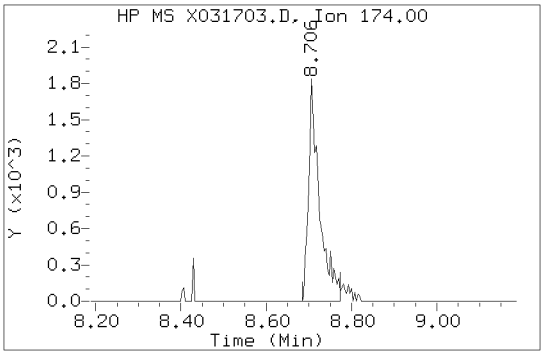
BEFORE

MASS
174
AREA
3271
HEIGHT
1837
30-Mar-2023
12:33
linh
pham



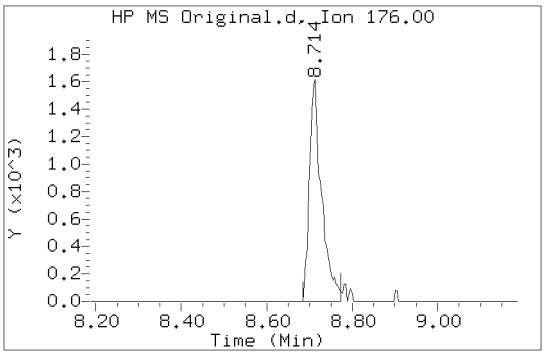
AFTER

MASS
174
AREA
3271
HEIGHT
1837
30-Mar-2023
12:41
linh
pham



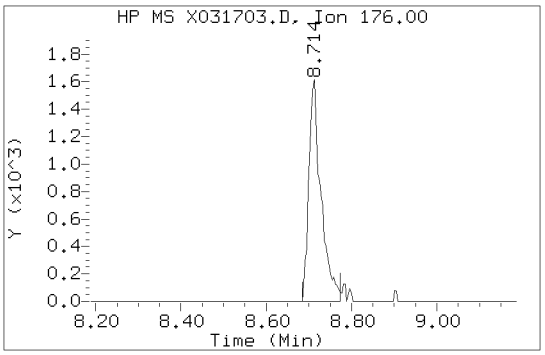
BEFORE

MASS
176
AREA
3200
HEIGHT
1615
30-Mar-2023
12:33
linh
pham



AFTER

MASS
176
AREA
3200
HEIGHT
1615
30-Mar-2023
12:41
linh
pham



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Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
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Inj Date : 17-MAR-2023 12:32
Operator : PC Inst ID: voa6.i
Smp Info : VSTD001;VSTD001;1;3;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 12:11 Cal File: X031703.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.178	4.178	(1.000)	364329	50.0000	
2	Dichlorodifluoromethane	85	0.973	0.973	(0.233)	2581	1.00000	1.64
3	Chloromethane	50	1.077	1.077	(0.258)	3230	1.00000	0.96
4	Propionitrile	54	3.675	3.675	(0.880)	6068	10.0000	11.82(a)
5	Vinyl Chloride	62	1.141	1.141	(0.273)	2576	1.00000	0.89
6	Bromomethane	94	1.336	1.336	(0.320)	1662	1.00000	1.00
7	Chloroethane	64	1.407	1.407	(0.337)	2280	1.00000	1.12(M)
8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	3466	1.00000	1.01(M)
9	Acrolein	56	1.445	1.445	(0.346)	474	2.00000	5.33(aM)
11	1,1-Dichloroethene	96	1.910	1.910	(0.457)	2453	1.00000	1.12(M)
12	Isobutyl Alcohol	43	4.680	4.680	(1.120)	10398	20.0000	20.91(a)
13	Acetonitrile	39	2.202	2.202	(0.527)	3936	10.0000	11.60(a)
14	Allyl Chloride	41	2.206	2.206	(0.528)	9372	1.00000	1.11(aM)
15	Iodomethane	142	2.026	2.026	(0.485)	1627	2.00000	9.87(TM)
16	Acrylonitrile	53	2.577	2.577	(0.617)	2507	2.00000	2.06(M)
18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	12777	1.00000	1.10(M)
19	Carbon Disulfide	76	2.071	2.071	(0.496)	15617	2.00000	1.94(M)
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.607)	3296	1.00000	1.06
21	Vinyl Acetate	43	3.031	3.031	(0.725)	17097	2.00000	1.83(M)
22	1,1-Dichloroethane	63	2.929	2.929	(0.701)	5819	1.00000	1.04

23 Chloroprene	53	1.767	1.767 (0.423)	1110	1.00000	1.11(aM)
24 2-Butanone	43	3.664	3.664 (0.877)	2545	2.00000	1.95(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	25 Methacrylonitrile	41	3.851	3.851	(0.922)	3707	1.00000	1.10(a)
	26 2,2-Dichloropropane	77	3.514	3.514	(0.841)	4259	1.00000	0.71
	27 cis-1,2-Dichloroethene	96	3.537	3.537	(0.847)	3925	1.00000	1.05
	28 Chloroform	83	3.904	3.904	(0.935)	6512	1.00000	1.04
	29 Bromochloromethane	128	3.803	3.803	(0.910)	2274	1.00000	1.07
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	4629	1.00000	0.99
	32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	4436	1.00000	1.06
	33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	5038	1.00000	1.03
	34 Carbon Tetrachloride	117	4.256	4.256	(0.857)	4405	1.00000	1.10
$	35 1,2-Dichloroethane-d4	65	4.485	4.485	(1.074)	4794	1.00000	2.24(M)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	585447	50.0000	
	37 Benzene	78	4.515	4.515	(0.909)	15392	1.00000	1.06
	38 Trichloroethene	130	5.216	5.216	(1.051)	4000	1.00000	1.03(a)
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	5190	1.00000	1.01(aM)
	40 Methyl Methacrylate	41	5.625	5.625	(1.346)	3255	1.00000	1.00(a)
	41 2-Chloroethylvinyl ether	63	6.078	6.078	(1.224)	3065	2.00000	1.97(aM)
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	4197	1.00000	1.08(aM)
	43 2-Nitropropane	43	5.981	5.981	(1.432)	1281	1.00000	1.11(aMH)
	44 Dibromomethane	93	5.561	5.561	(1.120)	2580	1.00000	1.04(a)
	45 4-Methyl-2-Pentanone	43	6.344	6.344	(0.827)	6390	2.00000	1.81(a)
	46 cis-1,3-Dichloropropene	75	6.164	6.164	(1.242)	5979	1.00000	0.92(a)
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	557694	50.0000	
$	48 Toluene-d8	98	6.393	6.393	(0.834)	16213	1.00000	1.17(a)
	49 Ethyl Methacrylate	69	6.719	6.719	(1.353)	4689	1.00000	1.08(aM)
	50 Toluene	91	6.453	6.453	(0.842)	15109	1.00000	1.03(a)
	51 trans-1,3-Dichloropropene	75	6.697	6.697	(1.349)	5091	1.00000	0.95(aM)
	52 2-Hexanone	43	7.117	7.117	(0.928)	4286	2.00000	1.76(a)
	53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	3242	1.00000	1.01(a)
	54 1,3-Dichloropropane	76	6.985	6.985	(0.911)	6514	1.00000	1.03(a)
	55 Dibromochloromethane	129	7.180	7.180	(0.936)	4441	1.00000	0.98(a)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	2953	1.00000	1.00(a)
	57 1,2-Dibromoethane	107	7.270	7.270	(0.948)	3736	1.00000	0.95(a)
	58 1-Chlorohexane	55	7.701	7.701	(1.551)	3010	1.00000	3.26(a)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	10830	1.00000	1.03(a)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	3954	1.00000	0.98(a)
	61 Ethylbenzene	106	7.806	7.806	(1.018)	5432	1.00000	1.05(a)
	62 m,p-Xylenes	106	7.911	7.911	(1.032)	13391	2.00000	2.06(a)
	63 o-Xylene	106	8.245	8.245	(1.075)	6862	1.00000	1.05(a)
	64 Styrene	104	8.279	8.279	(1.080)	10253	1.00000	0.95(a)
	66 Bromoform	173	8.414	8.414	(1.097)	2861	1.00000	0.92(Ta)
	67 Isopropylbenzene	105	8.564	8.564	(1.117)	16205	1.00000	1.08(a)
	68 1,1,2,2-Tetrachloroethane	83	8.845	8.845	(0.915)	5298	1.00000	0.97(a)
$	69 4-Bromofluorobenzene	95	8.702	8.702	(1.135)	6673	1.00000	1.08(a)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	311948	50.0000	
	71 1,2,3-Trichloropropane	75	8.871	8.871	(0.918)	4038	1.00000	0.98(a)
	72 trans-1,4-Dichloro-2-butene	53	8.923	8.923	(1.164)	1007	1.00000	1.33(a)
	73 n-Propylbenzene	91	8.920	8.920	(0.923)	17590	1.00000	1.01(a)
	74 Bromobenzene	156	8.818	8.818	(0.913)	5103	1.00000	1.01(a)
	75 1,3,5-Trimethylbenzene	105	9.077	9.077	(0.939)	14021	1.00000	1.04(a)
	76 2-Chlorotoluene	91	8.983	8.983	(0.930)	12773	1.00000	1.09(aM)
	77 4-Chlorotoluene	91	9.081	9.081	(0.940)	12573	1.00000	0.95(a)
	78 tert-Butylbenzene	119	9.339	9.339	(0.967)	11682	1.00000	1.09(a)

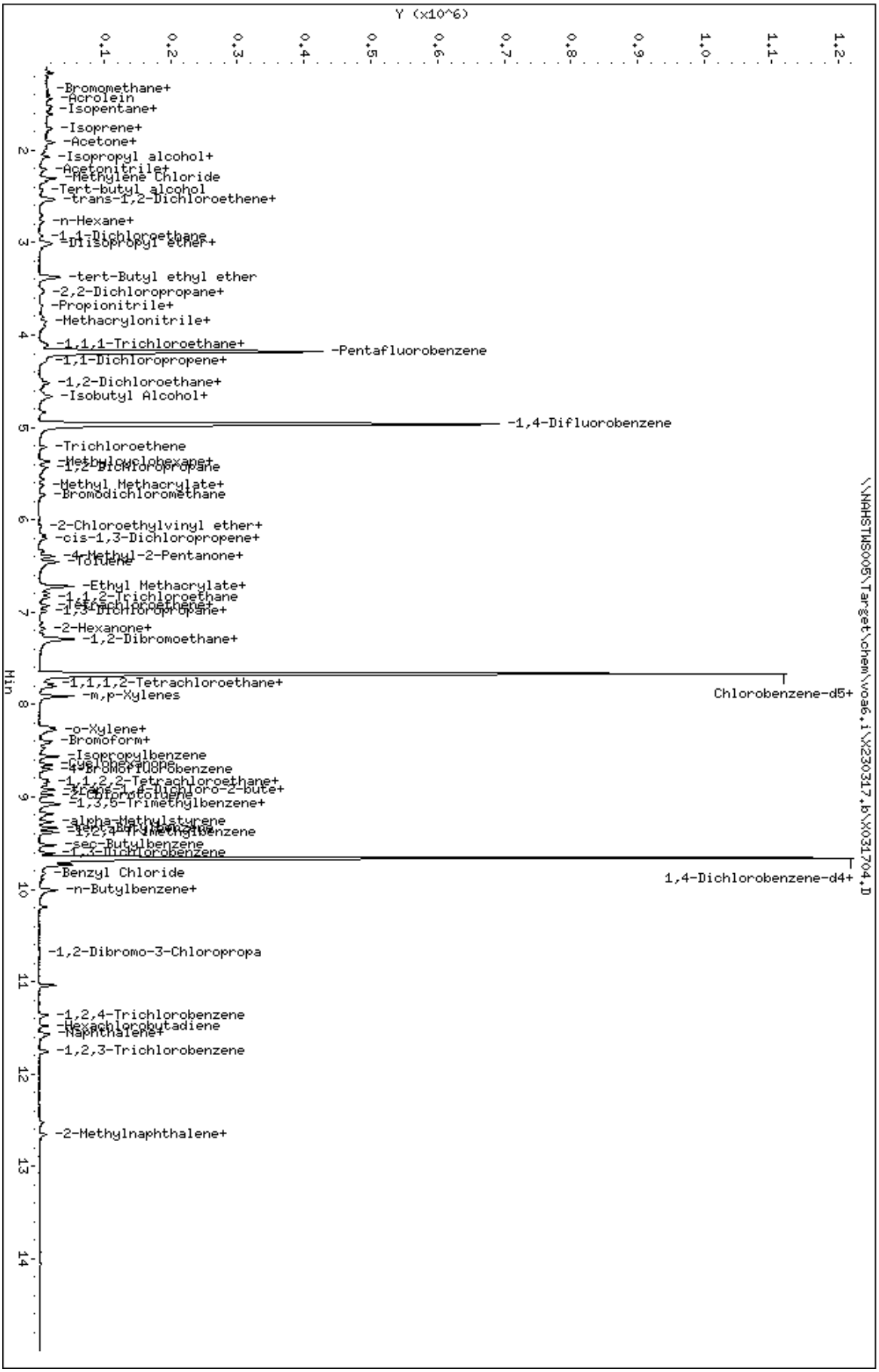
79 1,2,4-Trimethylbenzene	105	9.384	9.384 (0.971)	13929	1.00000	1.00(a)
81 sec-Butylbenzene	105	9.523	9.523 (0.986)	15472	1.00000	1.06(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
82	p-Isopropyltoluene	119	9.654	9.654	(0.999)	12841	1.00000	0.99(a)
83	1,3-Dichlorobenzene	146	9.613	9.613	(0.995)	8638	1.00000	0.99(a)
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	9909	1.00000	1.06(a)
86	Benzyl Chloride	91	9.831	9.831	(1.282)	6470	1.00000	2.25(aM)
87	n-Butylbenzene	91	10.014	10.014	(1.036)	10261	1.00000	0.98(a)
88	1,2-Dichlorobenzene	146	10.007	10.007	(1.036)	8419	1.00000	0.97(a)
89	1,2-Dibromo-3-Chloropropane	155	10.685	10.685	(1.106)	779	1.00000	2.23(aM)
90	1,2,4-Trichlorobenzene	180	11.368	11.368	(1.177)	5456	1.00000	0.86(a)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	2560	1.00000	2.85(a)
92	Naphthalene	128	11.574	11.574	(1.198)	13748	1.00000	0.90(a)
93	1,2,3-Trichlorobenzene	180	11.754	11.754	(1.216)	5673	1.00000	0.93(a)
146	Methyl acetate	43	2.251	2.251	(0.539)	1632	1.00000	0.77(a)
138	Freon TF	101	1.917	1.917	(0.459)	2078	1.00000	2.25(aM)
141	Cyclohexane	56	4.125	4.125	(0.987)	3748	1.00000	2.72(aM)
142	Tetrahydrofuran	42	3.866	3.866	(0.926)	1179	2.00000	1.98(aM)
147	Methylcyclohexane	55	5.366	5.366	(1.081)	7595	1.00000	0.93(aM)
135	1,4-Dioxane	88	5.625	5.625	(1.346)	953	20.0000	19.71(aM)
132	n-Butanol	56	5.366	5.366	(1.284)	1715	20.0000	49.33(aM)
131	Methyl Acrylate	55	3.758	3.758	(0.900)	3267	1.00000	0.86(aM)
133	Ethyl Acrylate	55	5.366	5.366	(1.284)	8164	1.00000	1.02(M)
136	n-Hexane	57	2.776	2.776	(0.664)	2771	1.00000	1.64(aM)
139	Diethyl ether	59	1.756	1.756	(0.420)	2934	1.00000	1.20(aM)
148	Tert-butyl alcohol	59	2.431	2.431	(0.582)	6630	20.0000	17.37
149	Isopropyl alcohol	45	2.101	2.101	(0.503)	3783	20.0000	18.55(T)
156	Diisopropyl ether	45	3.001	3.001	(0.718)	13564	1.00000	1.19(Ta)
160	2-Methylnaphthalene	142	12.657	12.657	(1.310)	5189	1.00000	0.68(a)
166	1,2,3-Trimethylbenzene	105	9.733	9.733	(1.007)	17375	1.00000	1.16(aM)
167	Ethanol	45	1.704	1.704	(0.408)	656	20.0000	20.07(M)
172	tert-Butyl formate	59	4.627	4.627	(1.108)	5691	2.00000	1.91(aM)
173	3,3-Dimethyl-1-butanol	57	7.293	7.293	(0.951)	9512	20.0000	22.13(M)
174	tert-Amyl methyl ether	73	4.665	4.665	(1.117)	14951	1.00000	1.14(aM)
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.808)	13706	1.00000	1.15(aM)
176	tert-Amyl alcohol	59	4.627	4.627	(1.108)	6256	20.0000	20.06
151	4-Methyl-2-pentanol	45	6.719	6.719	(1.353)	18895	20.0000	22.11(M)
180	1-Methylnaphthalene	142	12.657	12.657	(1.310)	5189	1.00000	(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	2590	1.00000	1.04(a)
152	Amyl alcohol	42	6.978	6.978	(0.910)	1880	20.0000	18.70(M)
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	5093	1.00000	1.12(M)
159	Propylene oxide	43	1.812	1.812	(0.434)	432	2.00000	1.90(aM)
161	3-Methyl-1-butanol	55	6.952	6.952	(0.907)	1791	20.0000	18.40(M)
162	Butyl acrylate	55	8.275	8.275	(1.079)	9286	1.00000	1.12(a)
182	Epichlorohydrin	57	6.116	6.116	(1.232)	1658	4.00000	4.96(aM)
M 94	1,2-Dichloroethylene (total)	96				7221	2.00000	(a)
130	Ethyl Acetate	43	3.690	3.690	(0.883)	3592	1.00000	0.95(aM)
134	Cyclohexanone	55	8.650	8.650	(0.895)	3987	20.0000	21.52(aM)
185	Isoprene	39	1.775	1.775	(0.425)	823	1.00000	1.17(a)
188	Isopropyl acetate	43	4.680	4.680	(0.943)	11803	1.00000	1.11(a)
187	n-Amyl acetate	43	8.474	8.474	(1.105)	6908	1.00000	0.99(aM)
189	n-Butyl acetate	43	7.237	7.237	(0.944)	5102	1.00000	0.86(a)
150	Allyl alcohol	57	2.776	2.776	(0.664)	2361	20.0000	28.41(M)
195	Methyl Amyl Ketone	43	8.399	8.399	(1.095)	9932	1.00000	1.12(aM)
200	Dimethyl Disulfide	94	6.209	6.209	(0.810)	6718	1.00000	0.91(aM)

202 Isobutylene	41	1.239	1.239 (0.297)	321	1.00000	1.05(aM)
205 2-Ethylhexyl Acrylate	55	11.562	11.562 (1.197)	4375	1.00000	0.95(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD001
Sample Info: VSTD001;VSTD001;1;3;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Chloroethane (75-00-3)

Reason Code:

BEFORE

MASS
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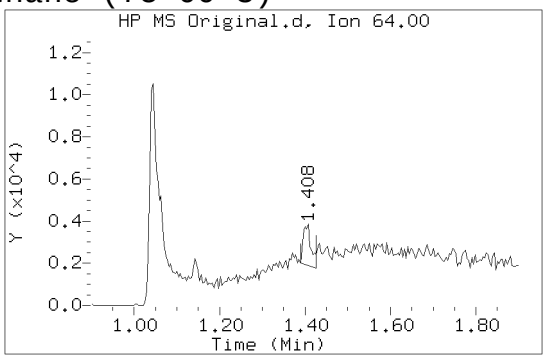
2583
HEIGHT
1976
30-Mar-2023
12:33
linh
pham



AFTER

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30-Mar-2023
12:41
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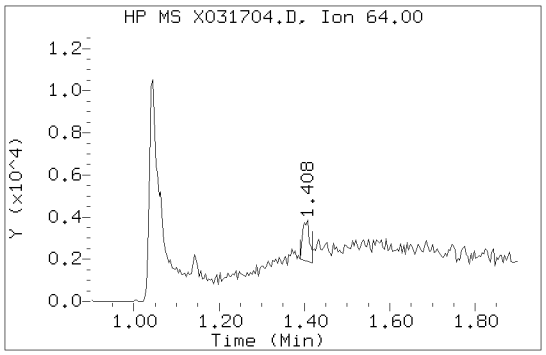

BEFORE

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30-Mar-2023
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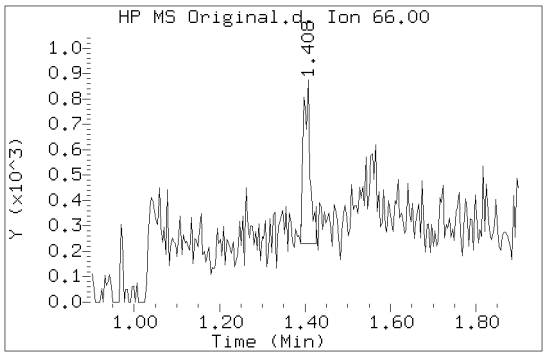

AFTER

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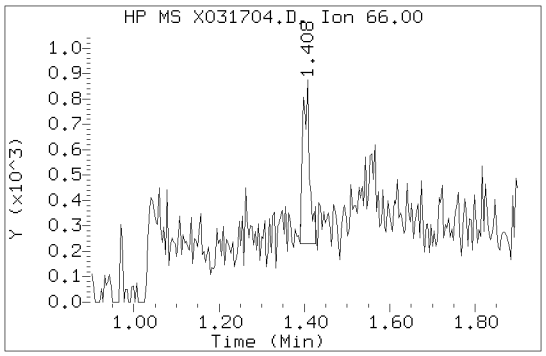

Trichlorofluoromethane (75-69-4)

Reason Code:

BEFORE

MASS
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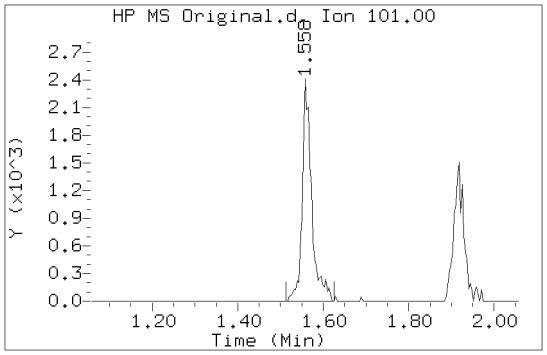
30-Mar-2023
12:33
linh
pham



AFTER

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30-Mar-2023
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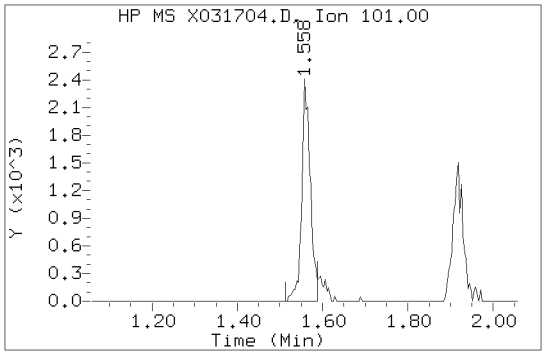

BEFORE

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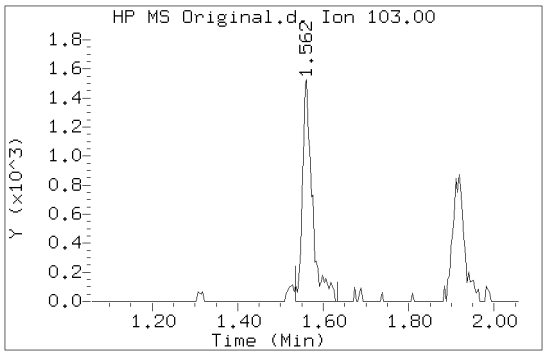

AFTER

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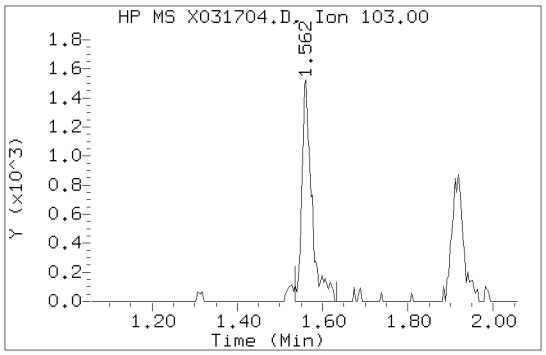

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Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Acetone (67-64-1)

Reason Code:

BEFORE

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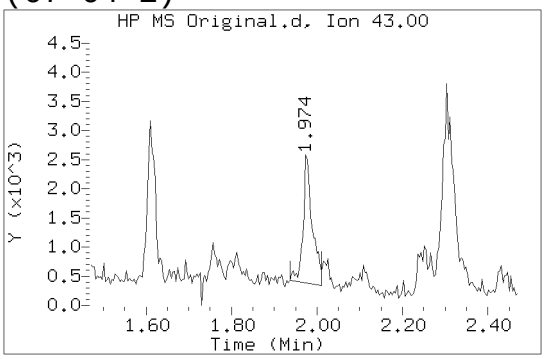
HEIGHT
2198
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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30-Mar-2023
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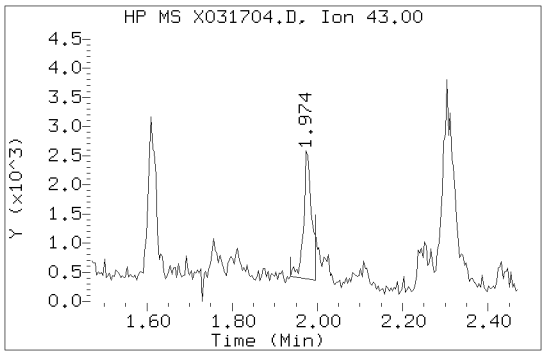

BEFORE

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711
30-Mar-2023
12:33
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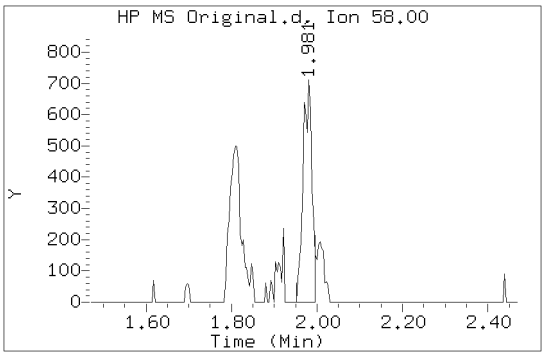

AFTER

MASS
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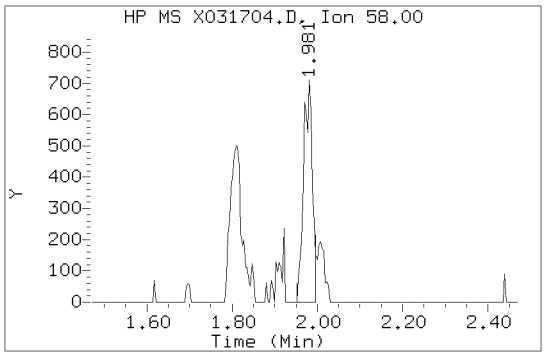
711
30-Mar-2023
12:41
linh
pham

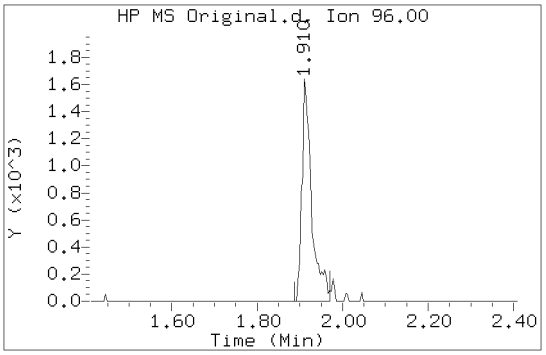


1,1-Dichloroethene (75-35-4)

Reason Code:

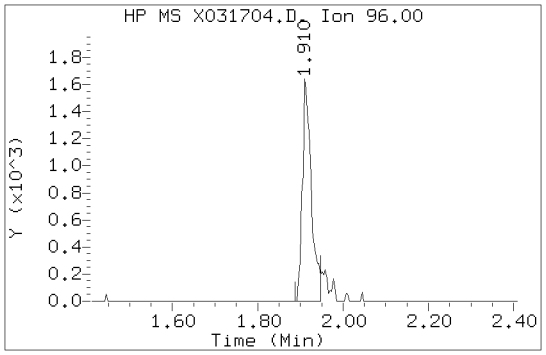
BEFORE

MASS
96
AREA
2667
HEIGHT
1642
30-Mar-2023
12:33
linh
pham



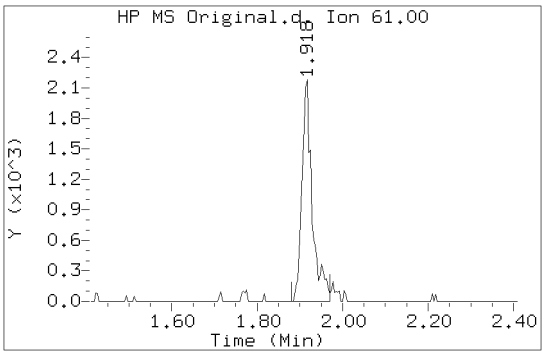
AFTER

MASS
96
AREA
2453
HEIGHT
1642
30-Mar-2023
12:41
linh
pham



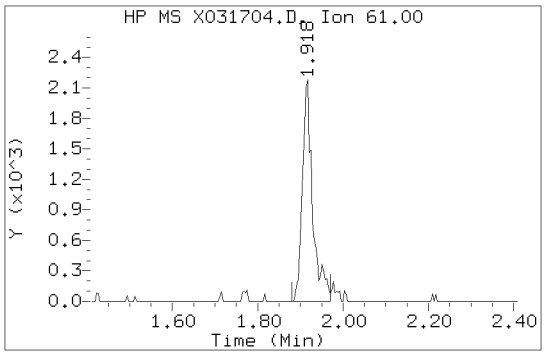
BEFORE

MASS
61
AREA
3712
HEIGHT
2181
30-Mar-2023
12:33
linh
pham



AFTER

MASS
61
AREA
3712
HEIGHT
2181
30-Mar-2023
12:41
linh
pham



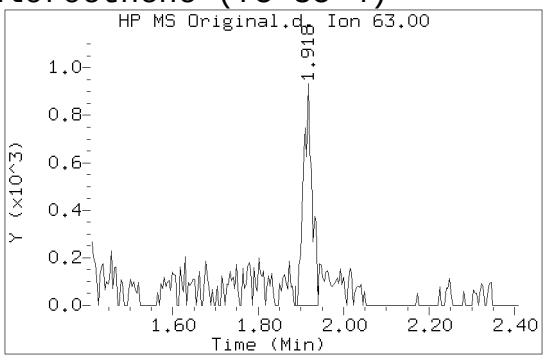
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,1-Dichloroethene (75-35-4)

Reason Code:

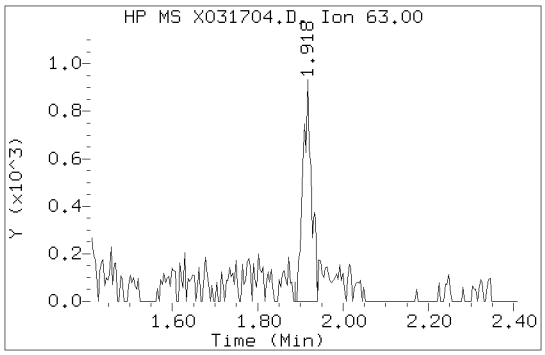
BEFORE

MASS
63
AREA
1331
HEIGHT
933
30-Mar-2023
12:33
linh
pham



AFTER

MASS
63
AREA
1331
HEIGHT
933
30-Mar-2023
12:41
linh
pham

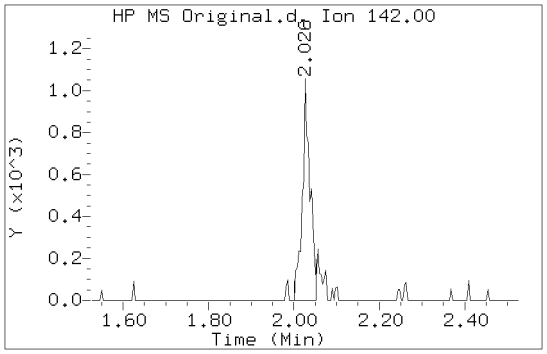


Iodomethane (74-88-4)

Reason Code:

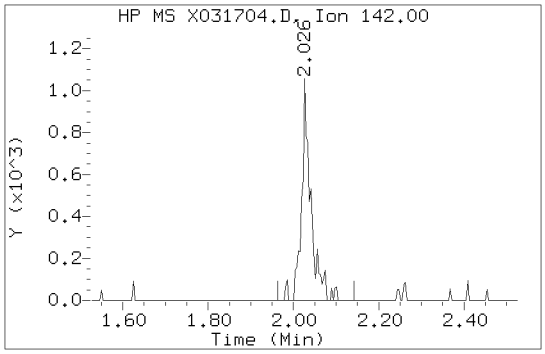
BEFORE

MASS
142
AREA
1366
HEIGHT
1057
30-Mar-2023
12:33
linh
pham



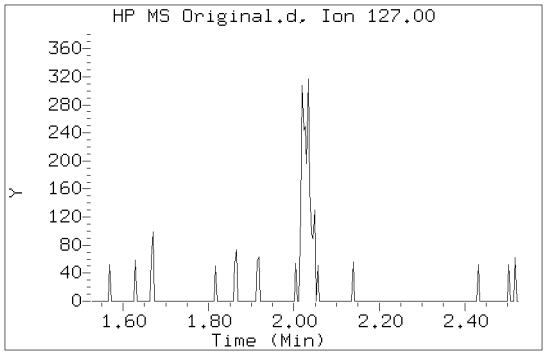
AFTER

MASS
142
AREA
1627
HEIGHT
1057
30-Mar-2023
12:41
linh
pham



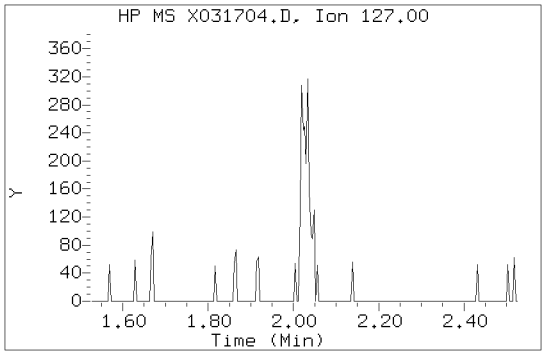
BEFORE

MASS
127
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



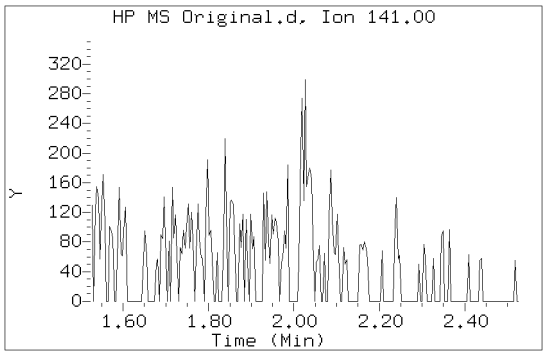
AFTER

MASS
127
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



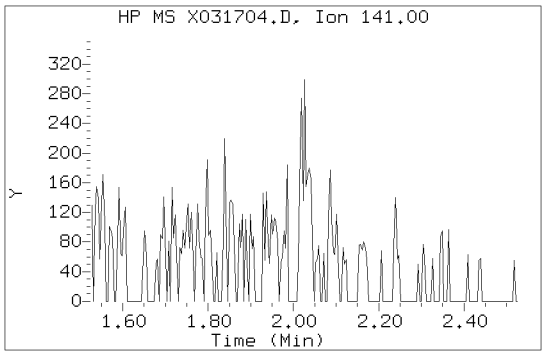
BEFORE

MASS
141
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
141
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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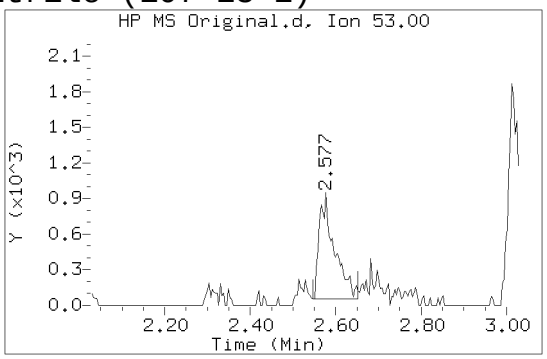
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Acrylonitrile (107-13-1)

Reason Code:

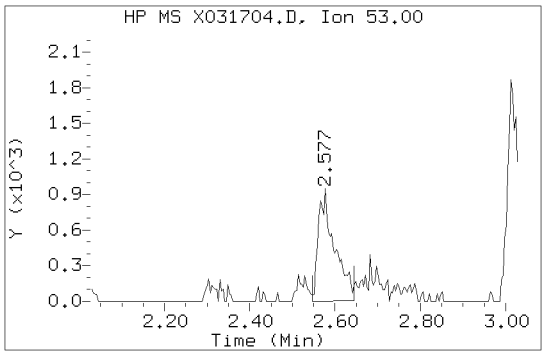
BEFORE

MASS
53
AREA
2233
HEIGHT
896
30-Mar-2023
12:33
linh
pham



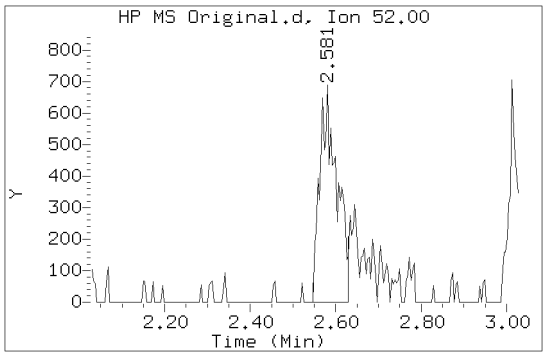
AFTER

MASS
53
AREA
2507
HEIGHT
949
30-Mar-2023
12:41
linh
pham



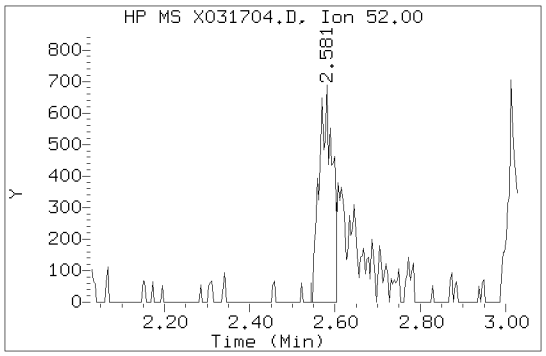
BEFORE

MASS
52
AREA
1908
HEIGHT
690
30-Mar-2023
12:33
linh
pham



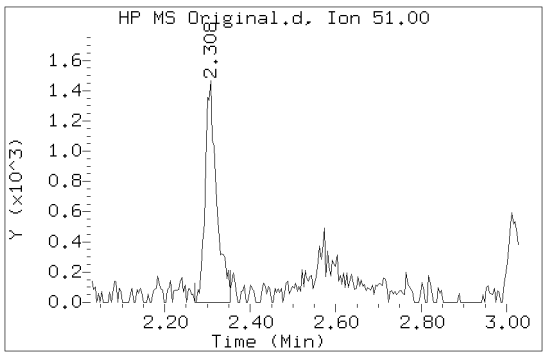
AFTER

MASS
52
AREA
1471
HEIGHT
690
30-Mar-2023
12:41
linh
pham



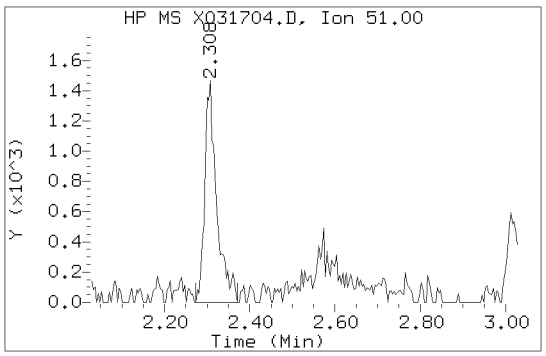
BEFORE

MASS
51
AREA
2720
HEIGHT
1466
30-Mar-2023
12:33
linh
pham



AFTER

MASS
51
AREA
2836
HEIGHT
1466
30-Mar-2023
12:41
linh
pham

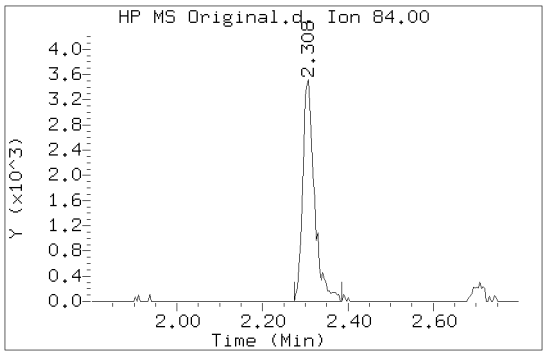


Methylene Chloride (75-09-2)

Reason Code:

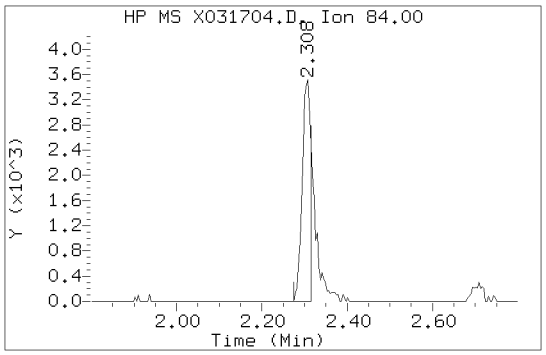
BEFORE

MASS
84
AREA
6838
HEIGHT
3518
30-Mar-2023
12:33
linh
pham



AFTER

MASS
84
AREA
4854
HEIGHT
3518
30-Mar-2023
12:41
linh
pham



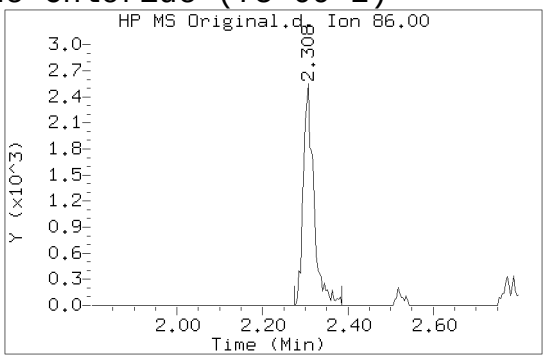
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Methylene Chloride (75-09-2)

Reason Code:

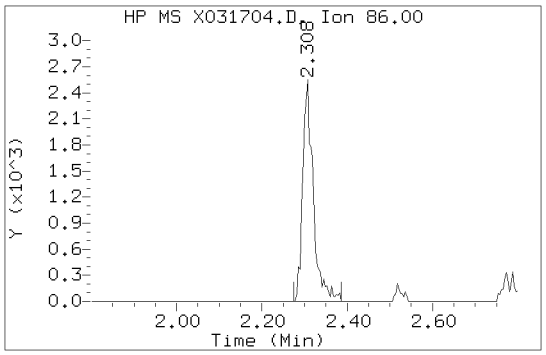
BEFORE

MASS
86
AREA
4483
HEIGHT
2551
30-Mar-2023
12:33
linh
pham



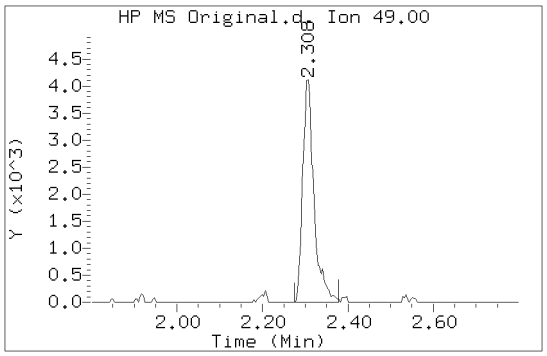
AFTER

MASS
86
AREA
4483
HEIGHT
2551
30-Mar-2023
12:41
linh
pham



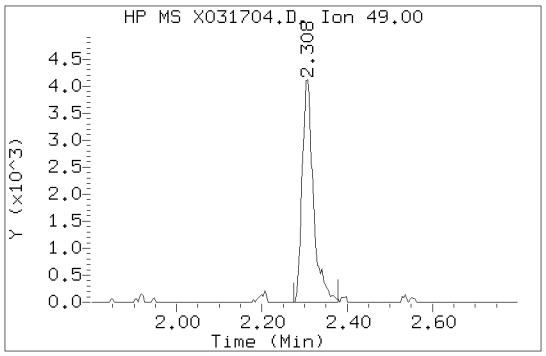
BEFORE

MASS
49
AREA
7704
HEIGHT
4113
30-Mar-2023
12:33
linh
pham



AFTER

MASS
49
AREA
7704
HEIGHT
4113
30-Mar-2023
12:41
linh
pham

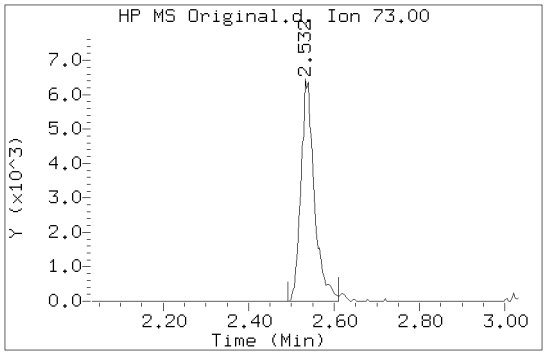


Methyl tert-butyl ether (1634-04-4)

Reason Code:

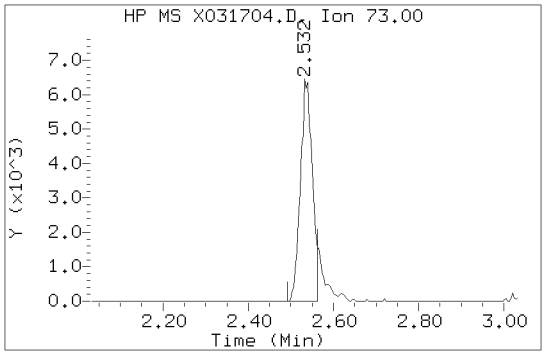
BEFORE

MASS
73
AREA
14389
HEIGHT
6459
30-Mar-2023
12:33
linh
pham



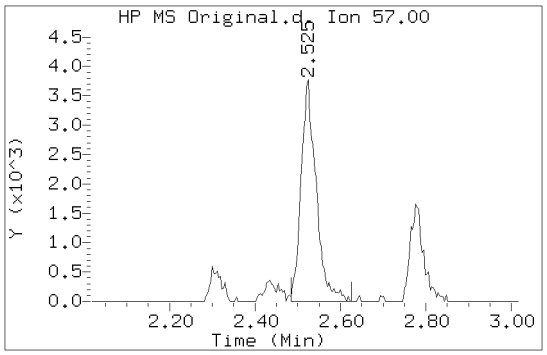
AFTER

MASS
73
AREA
12777
HEIGHT
6459
30-Mar-2023
12:41
linh
pham



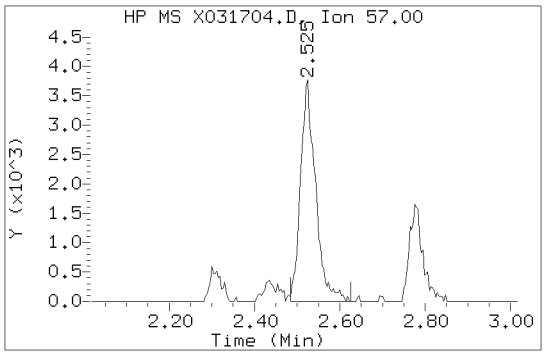
BEFORE

MASS
57
AREA
9359
HEIGHT
3774
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
9359
HEIGHT
3774
30-Mar-2023
12:41
linh
pham



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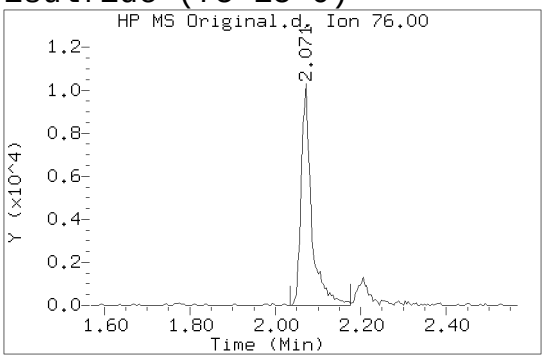
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

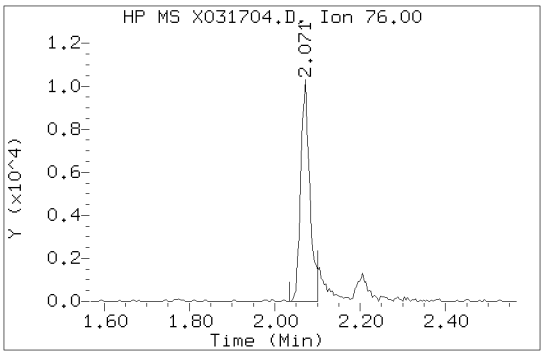
Carbon Disulfide (75-15-0)

BEFORE
MASS
76
AREA
17735
HEIGHT
10310
30-Mar-2023
12:33
linh
pham

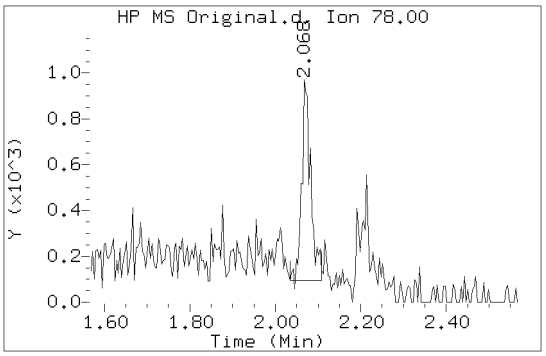


Reason Code:

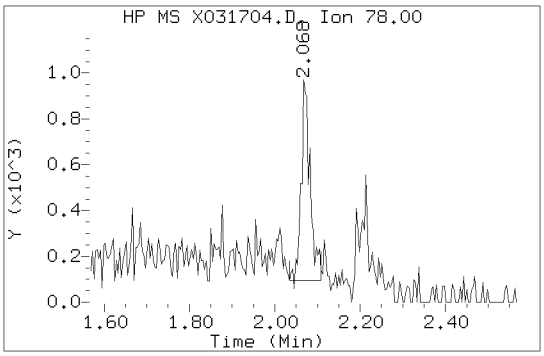
AFTER
MASS
76
AREA
15617
HEIGHT
10310
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
78
AREA
1293
HEIGHT
874
30-Mar-2023
12:33
linh
pham

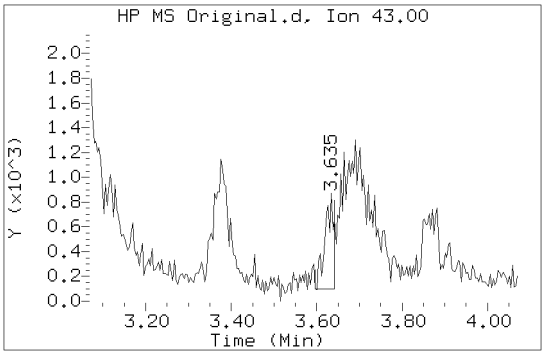


AFTER
MASS
78
AREA
1293
HEIGHT
874
30-Mar-2023
12:41
linh
pham



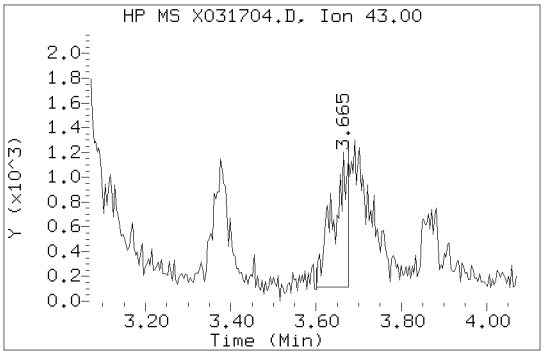
2-Butanone (78-93-3)

BEFORE
MASS
43
AREA
1071
HEIGHT
774
30-Mar-2023
12:33
linh
pham

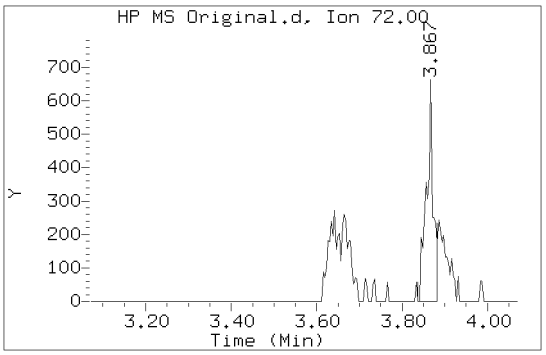


Reason Code:

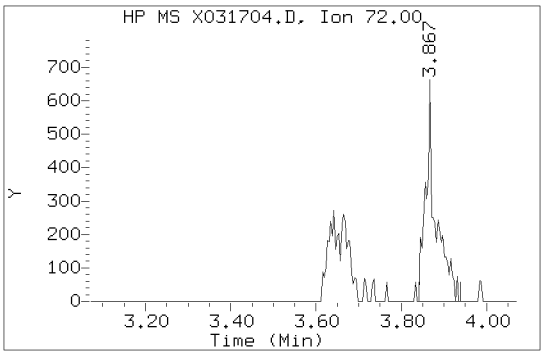
AFTER
MASS
43
AREA
2545
HEIGHT
1088
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
72
AREA
721
HEIGHT
663
30-Mar-2023
12:33
linh
pham



AFTER
MASS
72
AREA
1089
HEIGHT
663
30-Mar-2023
12:41
linh
pham



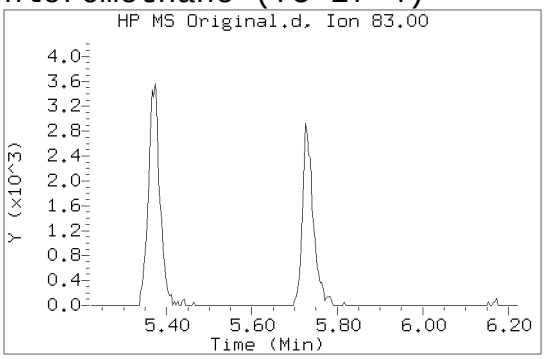
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

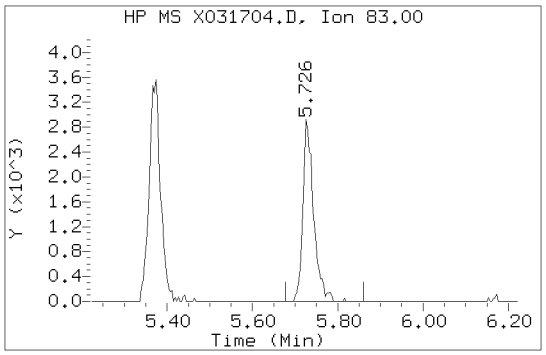
BEFORE

MASS
83
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



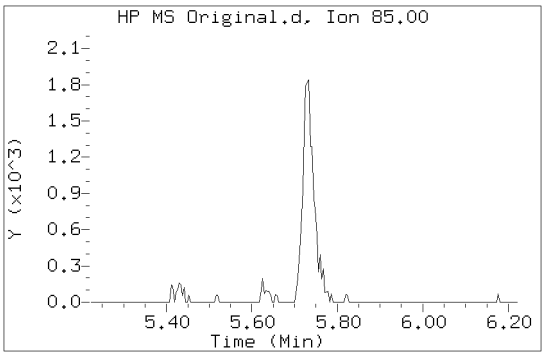
AFTER

MASS
83
AREA
5190
HEIGHT
2922
30-Mar-2023
12:41
linh
pham



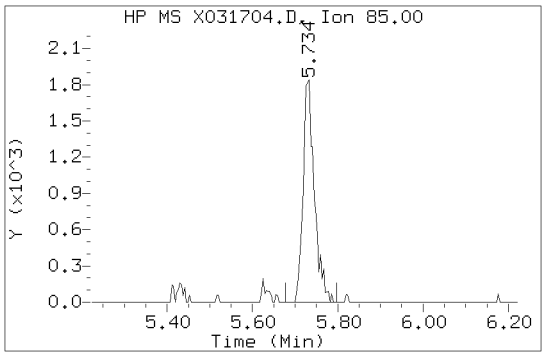
BEFORE

MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



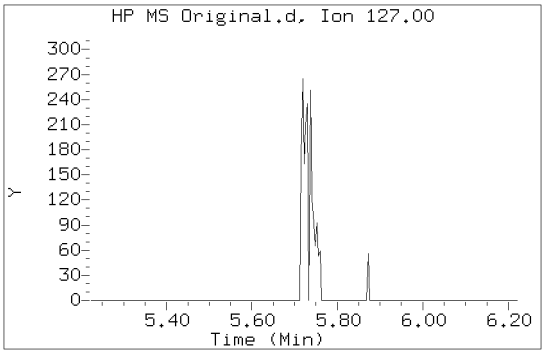
AFTER

MASS
85
AREA
3444
HEIGHT
1839
30-Mar-2023
12:41
linh
pham



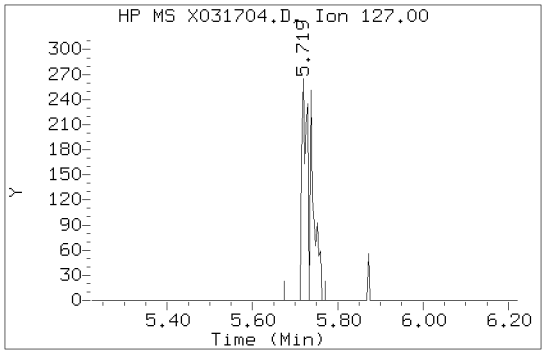
BEFORE

MASS
127
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
127
AREA
399
HEIGHT
265
30-Mar-2023
12:41
linh
pham

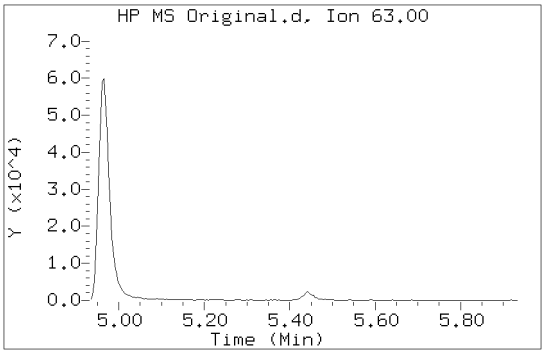


1,2-Dichloropropane (78-87-5)

Reason Code:

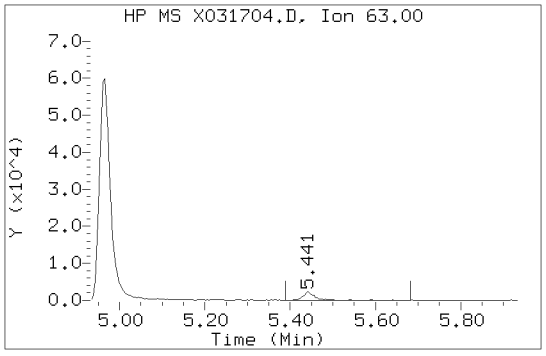
BEFORE

MASS
63
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
63
AREA
4197
HEIGHT
2459
30-Mar-2023
12:41
linh
pham



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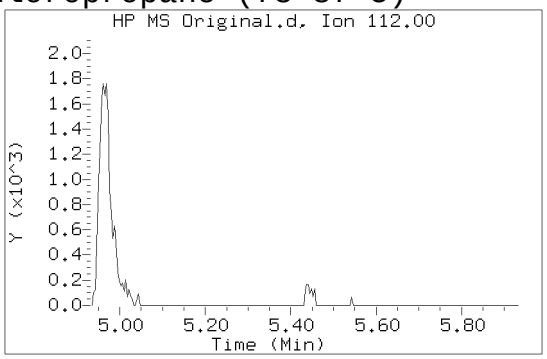
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,2-Dichloropropane (78-87-5)

Reason Code:

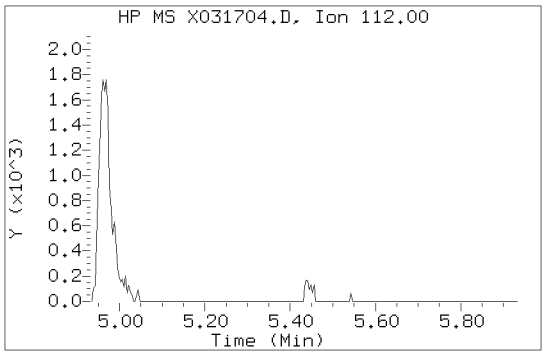
BEFORE

MASS
112
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
112
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

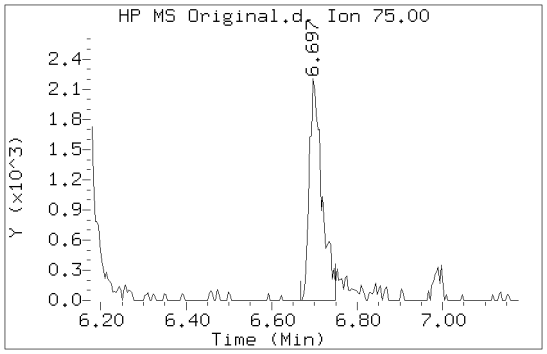


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

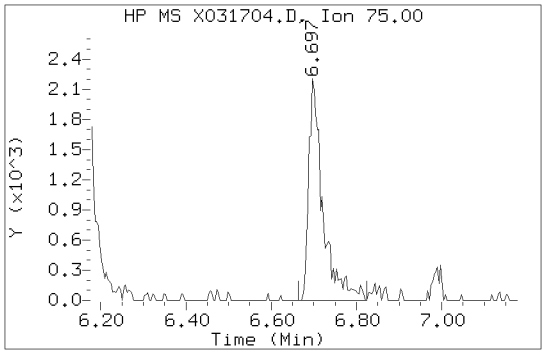
BEFORE

MASS
75
AREA
4512
HEIGHT
2206
30-Mar-2023
12:33
linh
pham



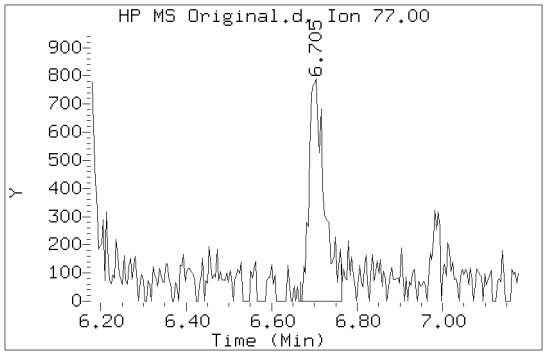
AFTER

MASS
75
AREA
5091
HEIGHT
2206
30-Mar-2023
12:41
linh
pham



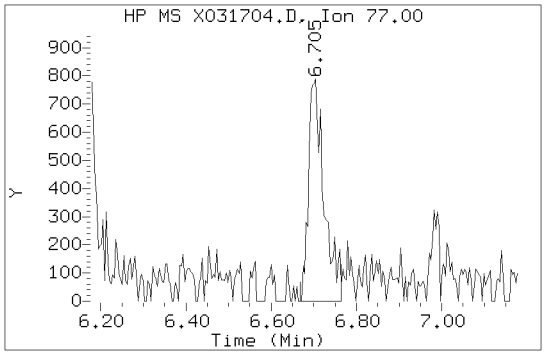
BEFORE

MASS
77
AREA
1993
HEIGHT
789
30-Mar-2023
12:33
linh
pham



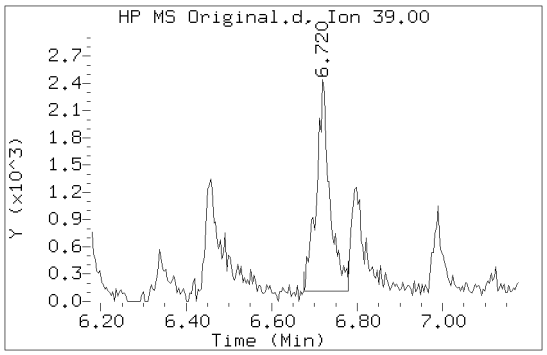
AFTER

MASS
77
AREA
1993
HEIGHT
789
30-Mar-2023
12:41
linh
pham



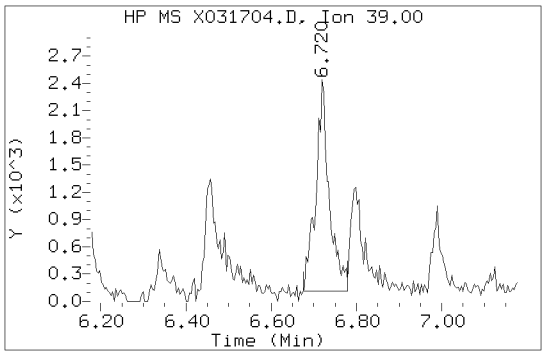
BEFORE

MASS
39
AREA
5092
HEIGHT
2329
30-Mar-2023
12:33
linh
pham



AFTER

MASS
39
AREA
5092
HEIGHT
2329
30-Mar-2023
12:41
linh
pham



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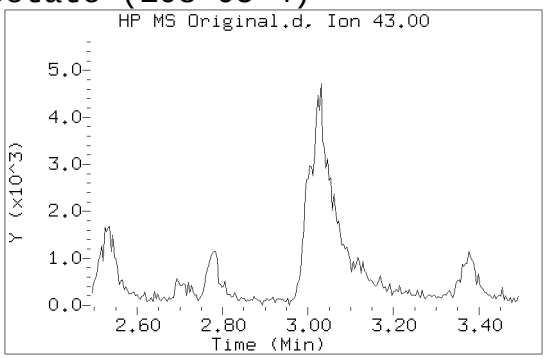
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Vinyl Acetate (108-05-4)

Reason Code:

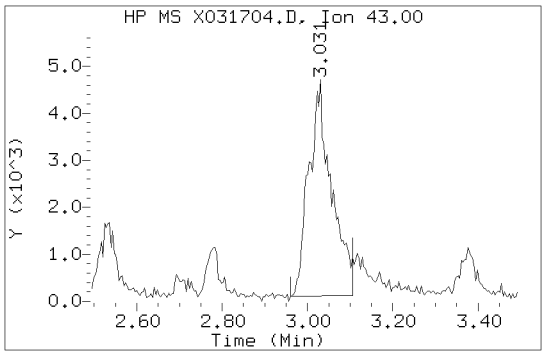
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



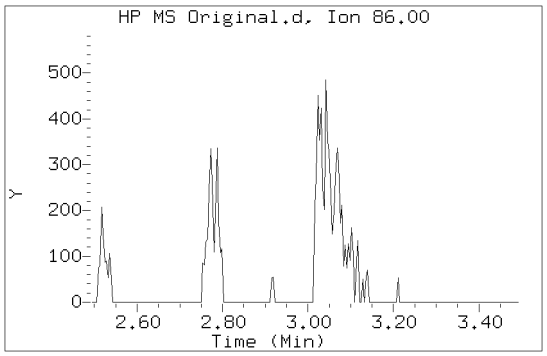
AFTER

MASS
43
AREA
17097
HEIGHT
4603
30-Mar-2023
12:41
linh
pham



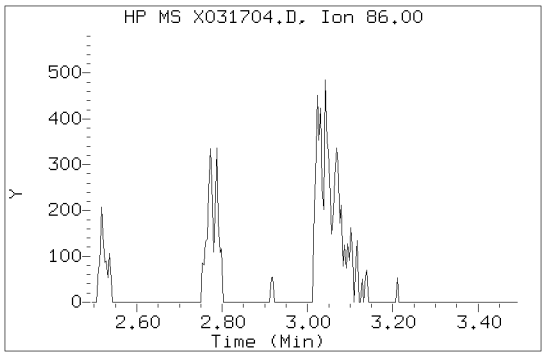
BEFORE

MASS
86
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
86
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

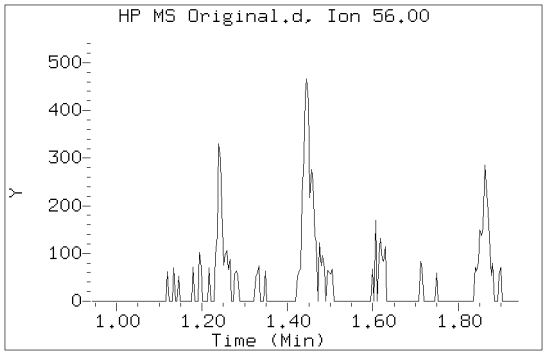


Acrolein (107-02-8)

Reason Code:

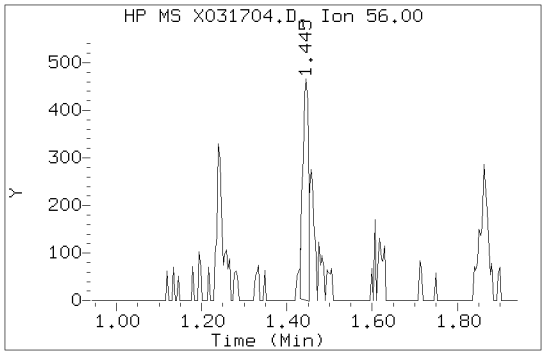
BEFORE

MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



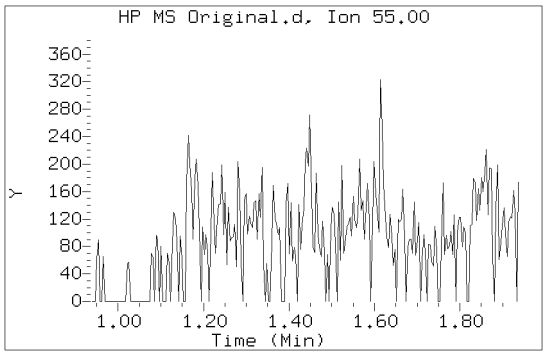
AFTER

MASS
56
AREA
474
HEIGHT
464
30-Mar-2023
12:41
linh
pham



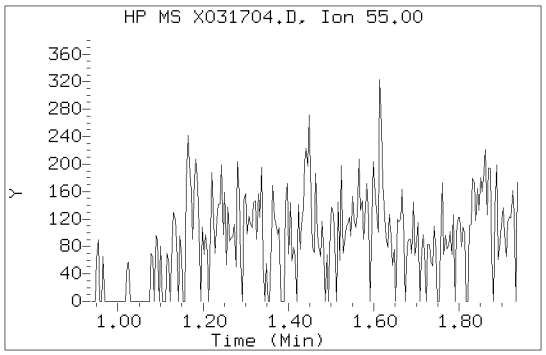
BEFORE

MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

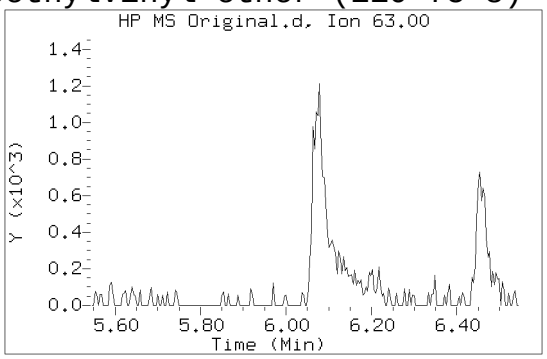


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

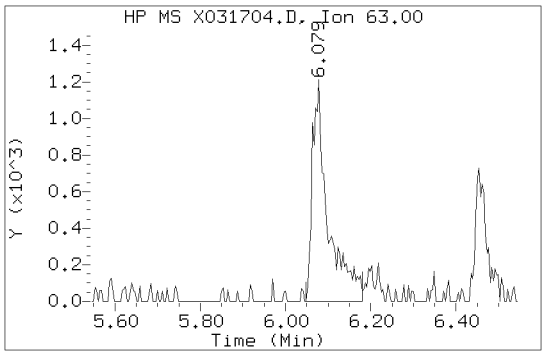
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

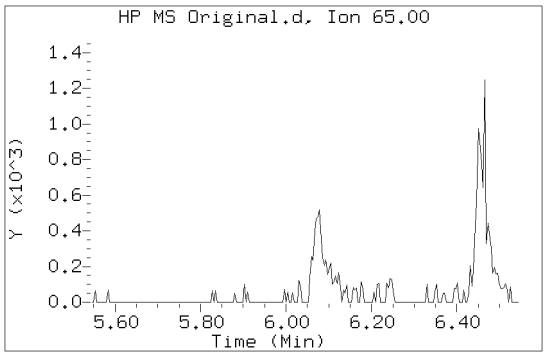
BEFORE
MASS
63
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



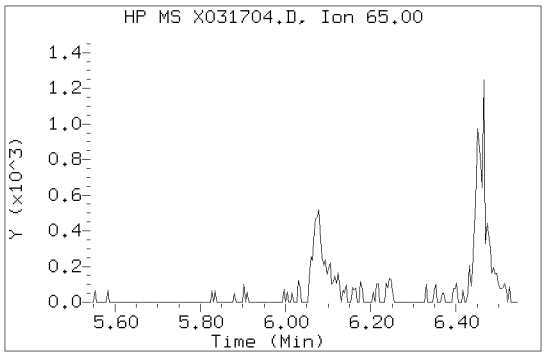
AFTER
MASS
63
AREA
3065
HEIGHT
1212
30-Mar-2023
12:41
linh
pham



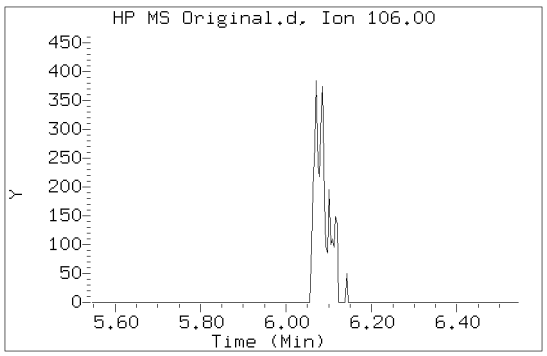
BEFORE
MASS
65
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



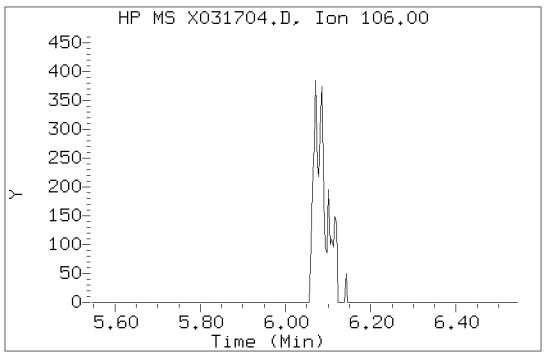
AFTER
MASS
65
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
106
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



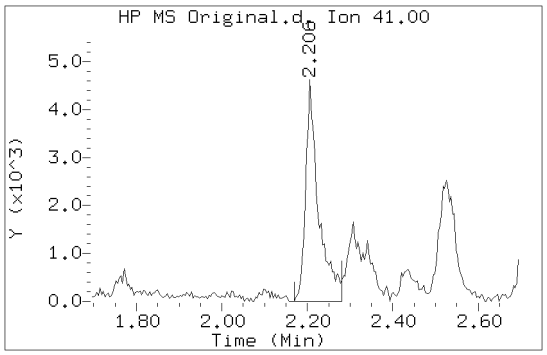
AFTER
MASS
106
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



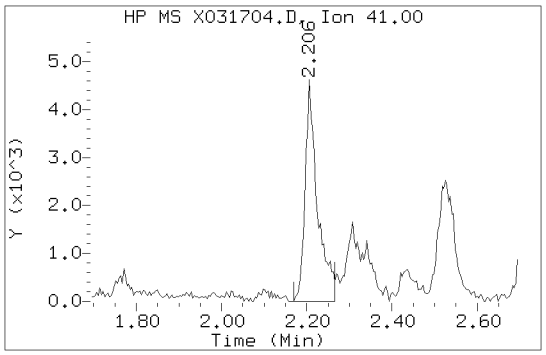
Allyl Chloride (107-05-1)

Reason Code:

BEFORE
MASS
41
AREA
9810
HEIGHT
4624
30-Mar-2023
12:33
linh
pham



AFTER
MASS
41
AREA
9372
HEIGHT
4624
30-Mar-2023
12:41
linh
pham



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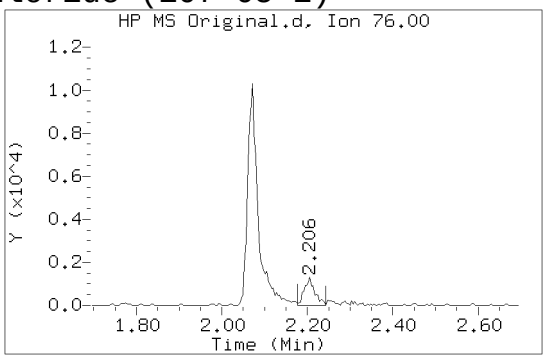
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Allyl Chloride (107-05-1)

BEFORE

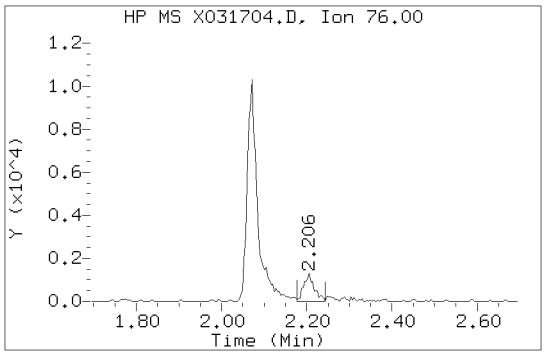
MASS
76
AREA
2238
HEIGHT
1301
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

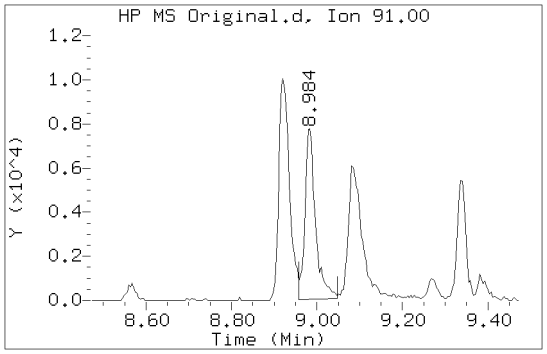
MASS
76
AREA
2238
HEIGHT
1301
30-Mar-2023
12:41
linh
pham



2-Chlorotoluene (95-49-8)

BEFORE

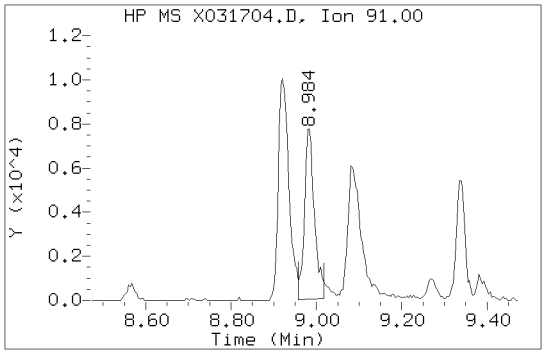
MASS
91
AREA
13436
HEIGHT
7740
30-Mar-2023
12:33
linh
pham



Reason Code:

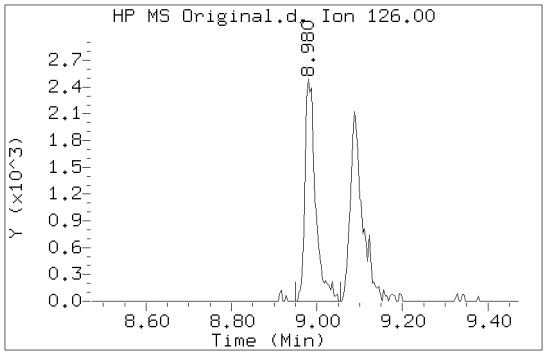
AFTER

MASS
91
AREA
12773
HEIGHT
7740
30-Mar-2023
12:41
linh
pham



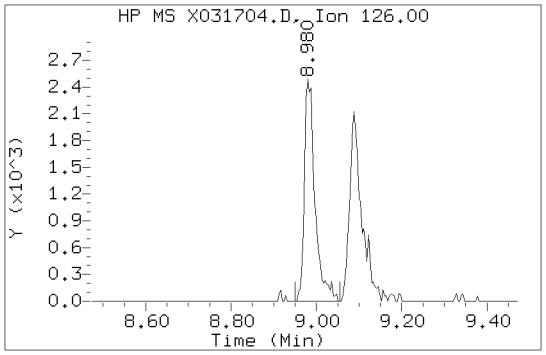
BEFORE

MASS
126
AREA
4377
HEIGHT
2491
30-Mar-2023
12:33
linh
pham



AFTER

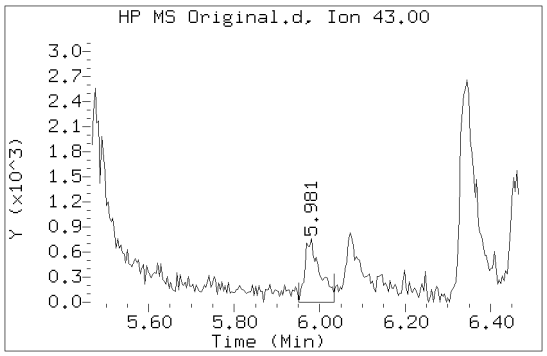
MASS
126
AREA
4377
HEIGHT
2491
30-Mar-2023
12:41
linh
pham



2-Nitropropane (79-46-9)

BEFORE

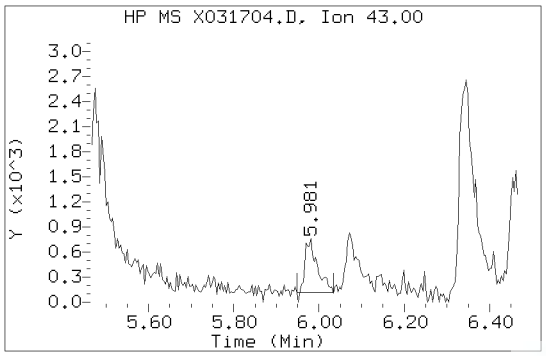
MASS
43
AREA
1865
HEIGHT
764
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

MASS
43
AREA
1281
HEIGHT
651
30-Mar-2023
12:41
linh
pham



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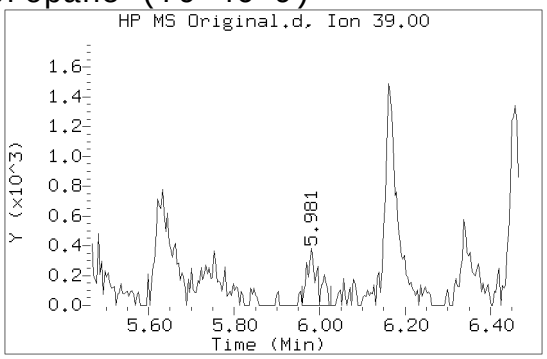
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

2-Nitropropane (79-46-9)

Reason Code:

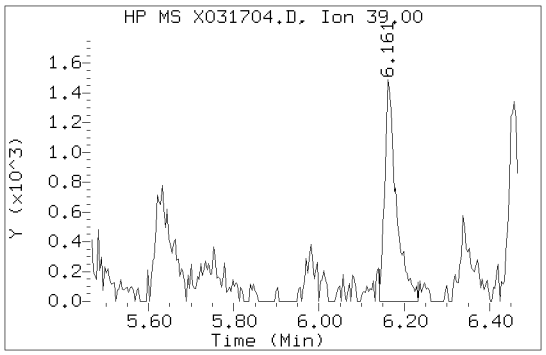
BEFORE

MASS
39
AREA
685
HEIGHT
382
30-Mar-2023
12:33
linh
pham



AFTER

MASS
39
AREA
2792
HEIGHT
1489
30-Mar-2023
12:41
linh
pham

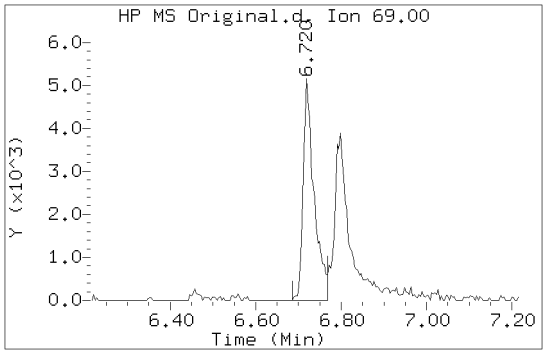


Ethyl Methacrylate (97-63-2)

Reason Code:

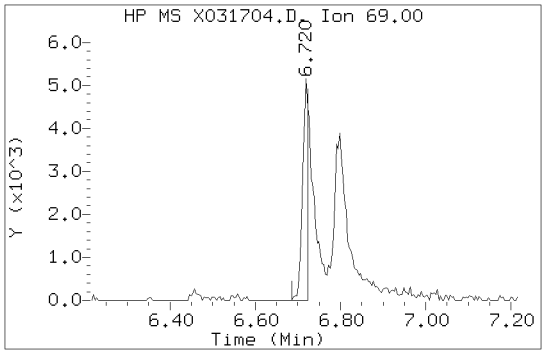
BEFORE

MASS
69
AREA
9311
HEIGHT
5158
30-Mar-2023
12:33
linh
pham



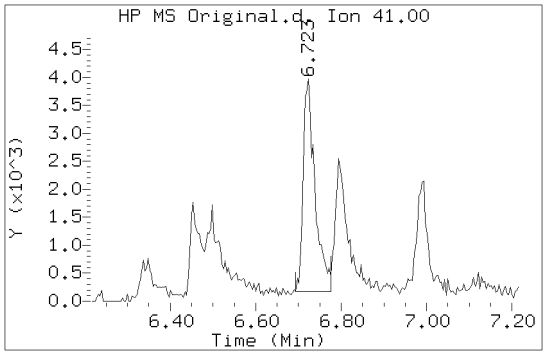
AFTER

MASS
69
AREA
4689
HEIGHT
5158
30-Mar-2023
12:41
linh
pham



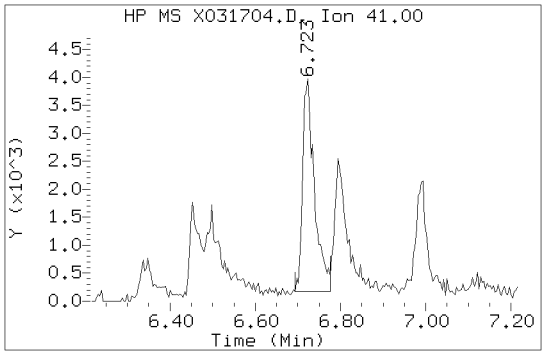
BEFORE

MASS
41
AREA
7465
HEIGHT
3806
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
7465
HEIGHT
3806
30-Mar-2023
12:41
linh
pham

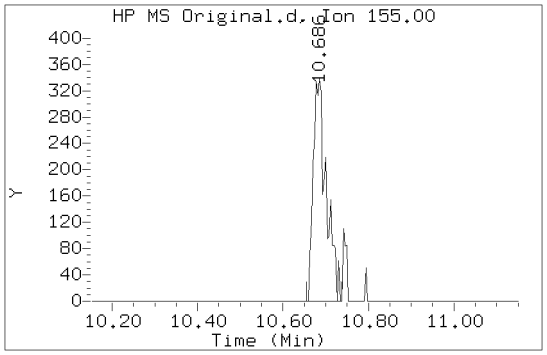


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

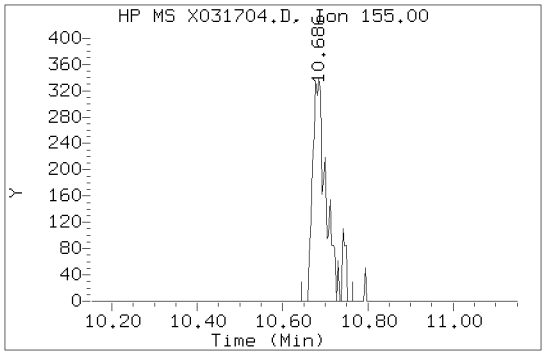
BEFORE

MASS
155
AREA
717
HEIGHT
338
30-Mar-2023
12:33
linh
pham



AFTER

MASS
155
AREA
779
HEIGHT
338
30-Mar-2023
12:41
linh
pham

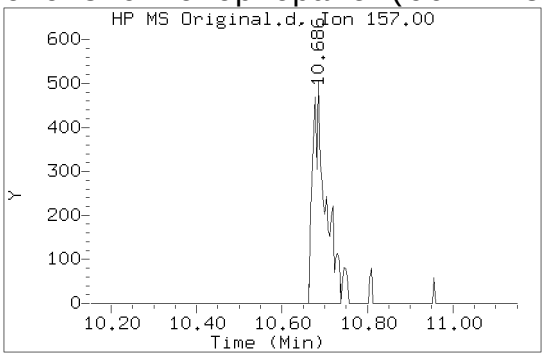


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,2-Dibromo-3-Chloropropane (96-12-8)

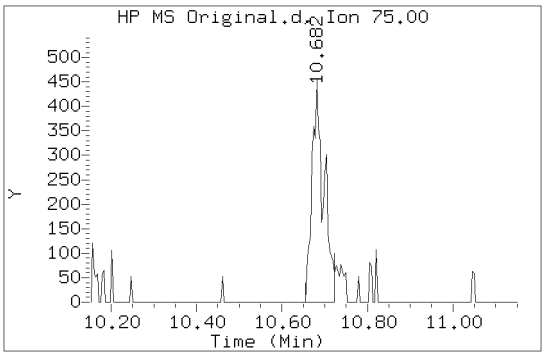
BEFORE

MASS
157
AREA
1030
HEIGHT
504
30-Mar-2023
12:33
linh
pham



BEFORE

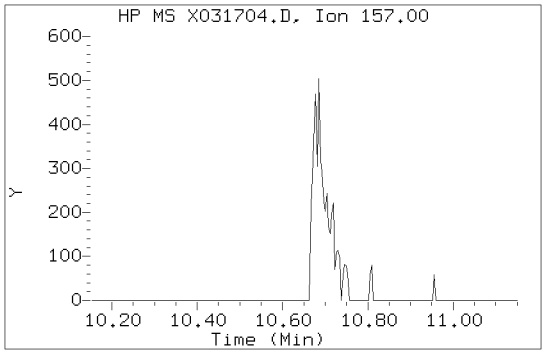
MASS
75
AREA
874
HEIGHT
454
30-Mar-2023
12:33
linh
pham



Reason Code:

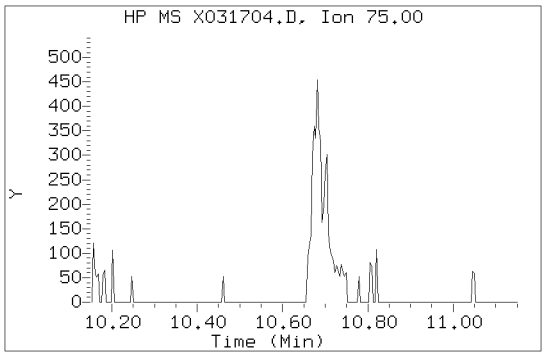
AFTER

MASS
157
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



AFTER

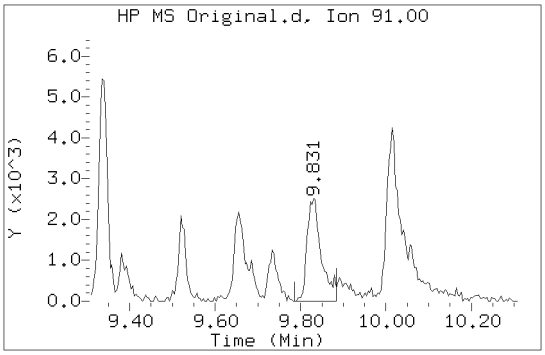
MASS
75
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



Benzyl Chloride (100-44-7)

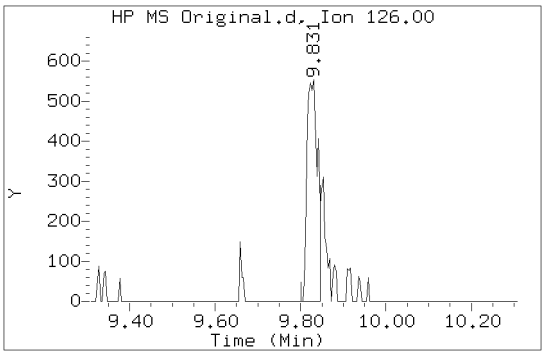
BEFORE

MASS
91
AREA
5843
HEIGHT
2513
30-Mar-2023
12:33
linh
pham



BEFORE

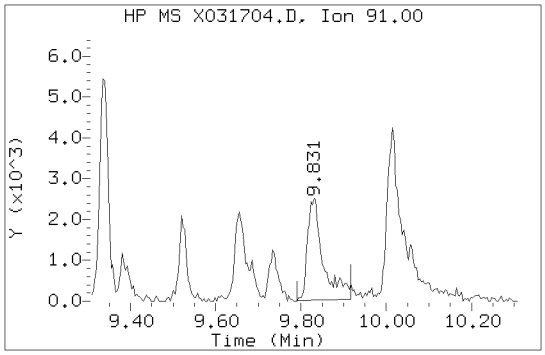
MASS
126
AREA
950
HEIGHT
554
30-Mar-2023
12:33
linh
pham



Reason Code:

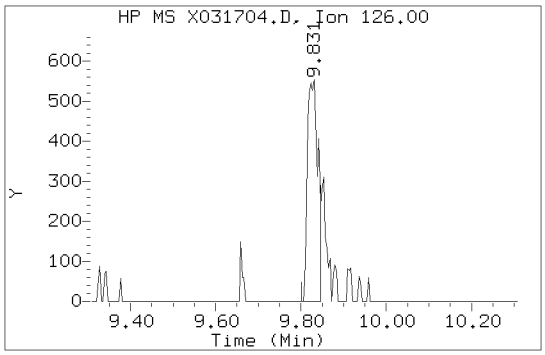
AFTER

MASS
91
AREA
6470
HEIGHT
2487
30-Mar-2023
12:41
linh
pham



AFTER

MASS
126
AREA
950
HEIGHT
554
30-Mar-2023
12:41
linh
pham



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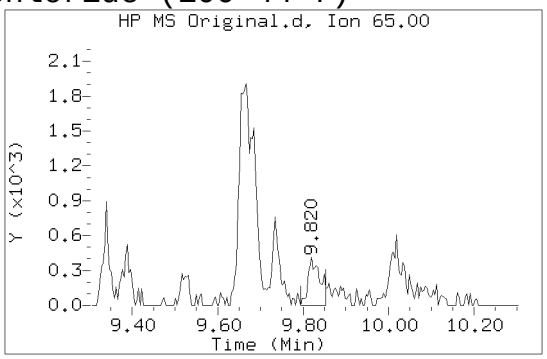
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Benzyl Chloride (100-44-7)

Reason Code:

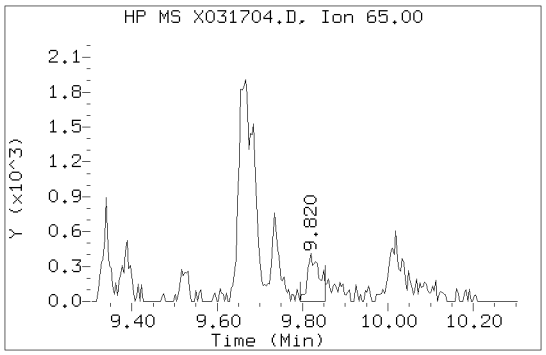
BEFORE

MASS
65
AREA
798
HEIGHT
411
30-Mar-2023
12:33
linh
pham



AFTER

MASS
65
AREA
798
HEIGHT
411
30-Mar-2023
12:41
linh
pham

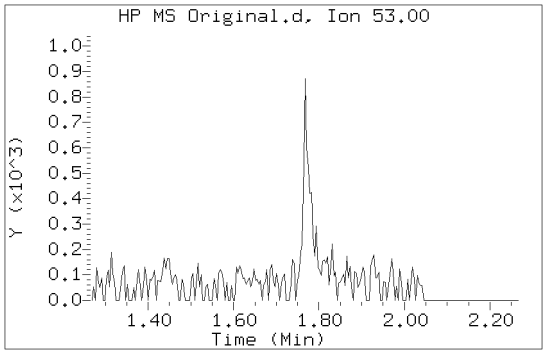


Chloroprene (126-99-8)

Reason Code:

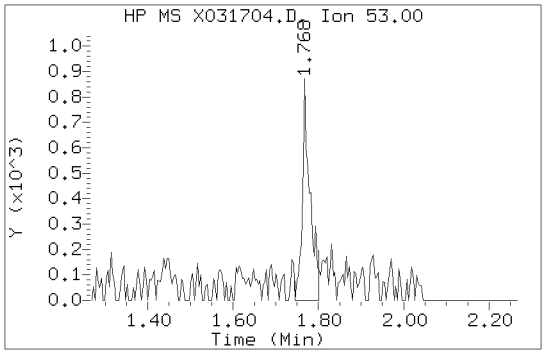
BEFORE

MASS
53
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



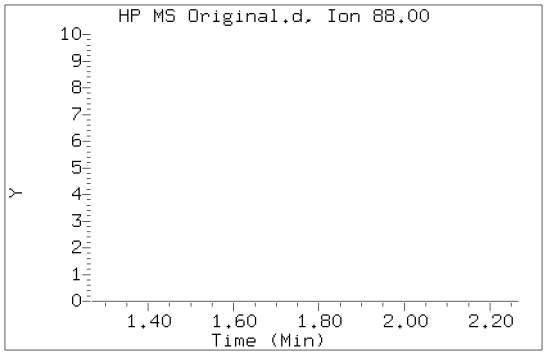
AFTER

MASS
53
AREA
1110
HEIGHT
872
30-Mar-2023
12:41
linh
pham



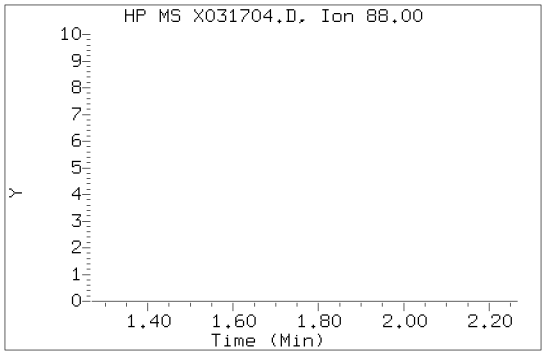
BEFORE

MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

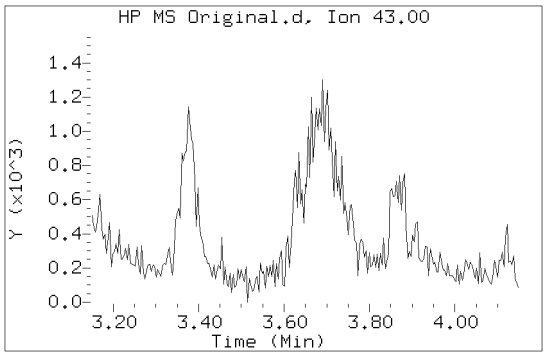


Ethyl Acetate (141-78-6)

Reason Code:

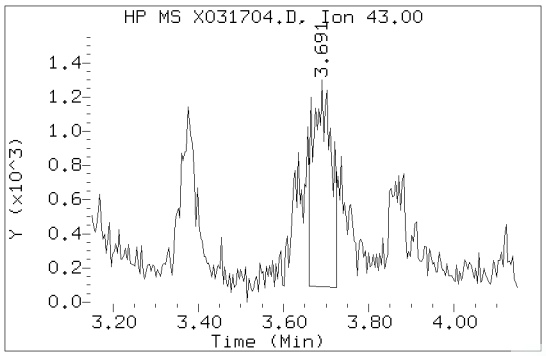
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
AREA
3592
HEIGHT
1209
30-Mar-2023
12:41
linh
pham



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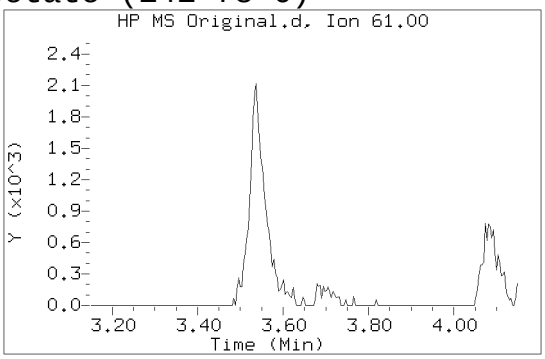
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

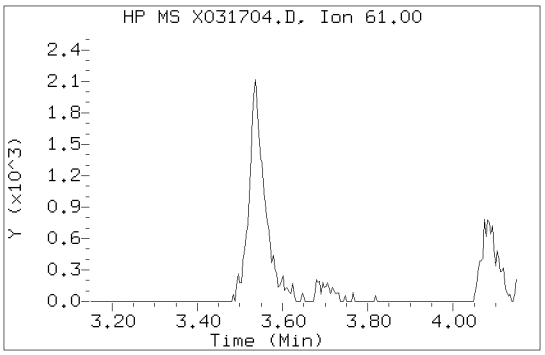
Ethyl Acetate (141-78-6)

BEFORE
MASS
61
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham

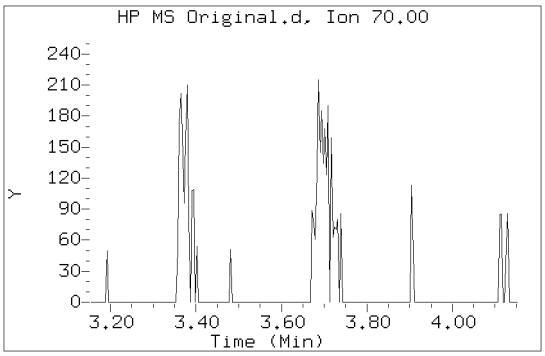


AFTER
MASS
61
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

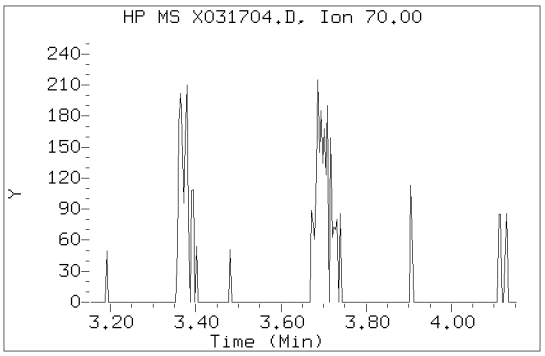
Reason Code:



BEFORE
MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham

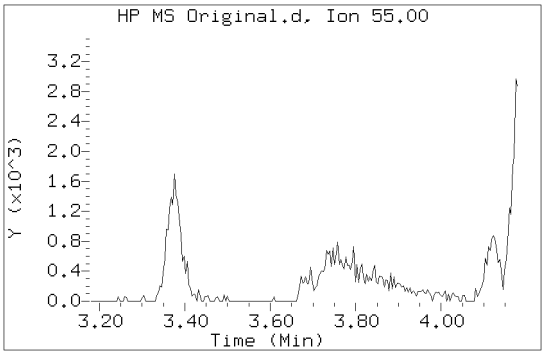


AFTER
MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



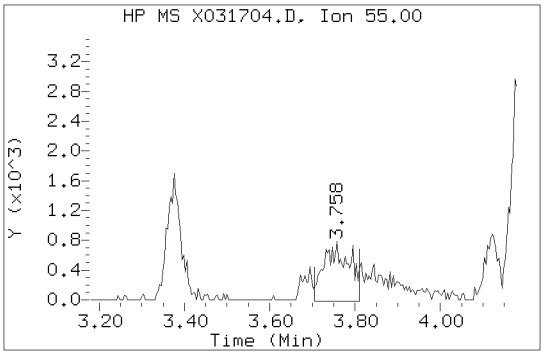
Methyl Acrylate (96-33-3)

BEFORE
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham

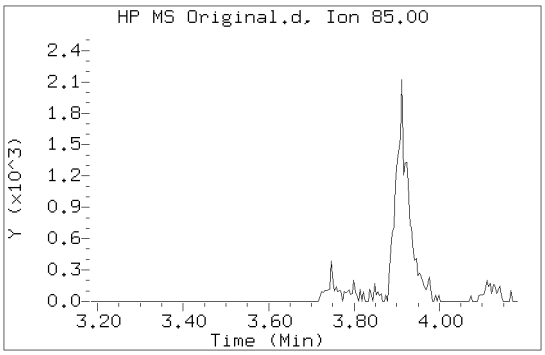


AFTER
MASS
55
AREA
3267
HEIGHT
805
30-Mar-2023
12:41
linh
pham

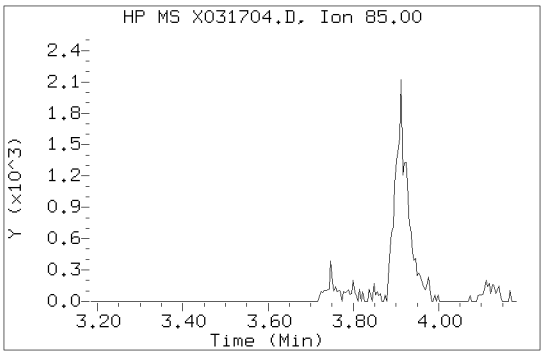
Reason Code:



BEFORE
MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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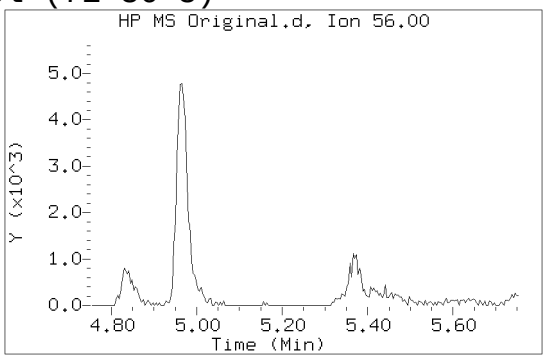
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

n-Butanol (71-36-3)

Reason Code:

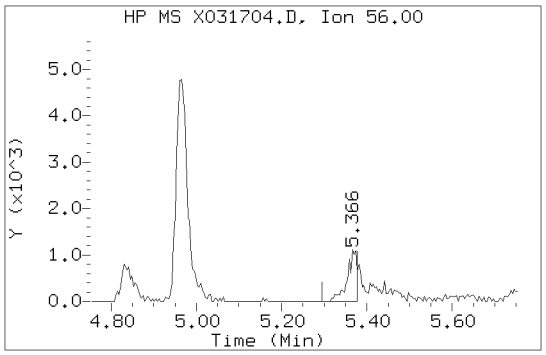
BEFORE

MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



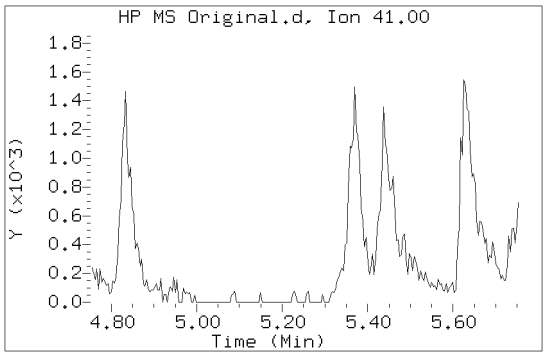
AFTER

MASS
56
AREA
1715
HEIGHT
1125
30-Mar-2023
12:41
linh
pham



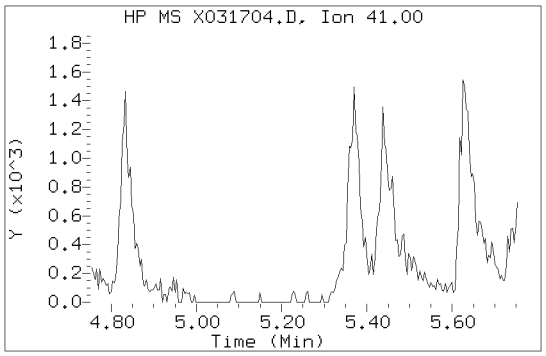
BEFORE

MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

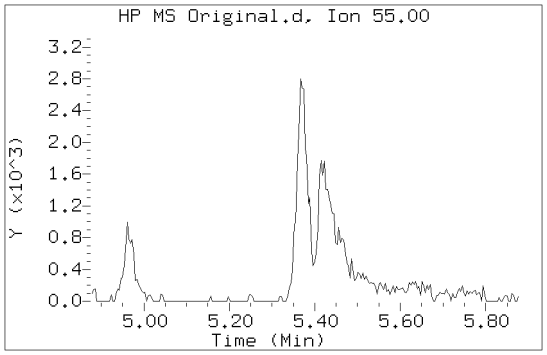


Ethyl Acrylate (140-88-5)

Reason Code:

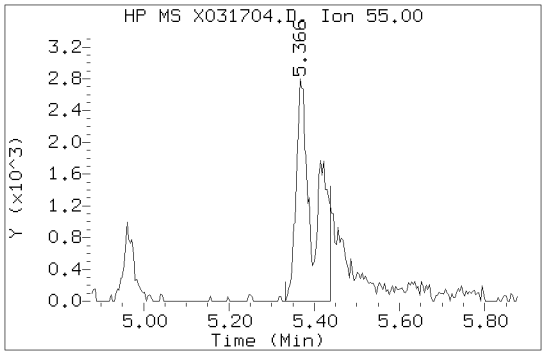
BEFORE

MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



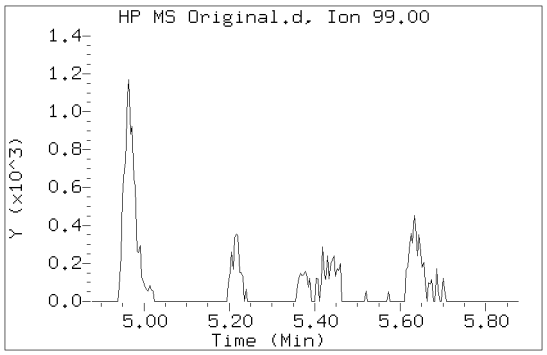
AFTER

MASS
55
AREA
8164
HEIGHT
2799
30-Mar-2023
12:41
linh
pham



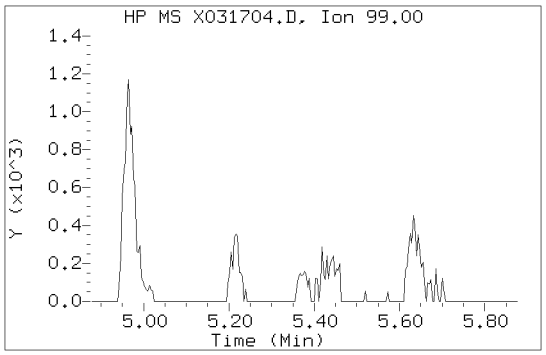
BEFORE

MASS
99
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
99
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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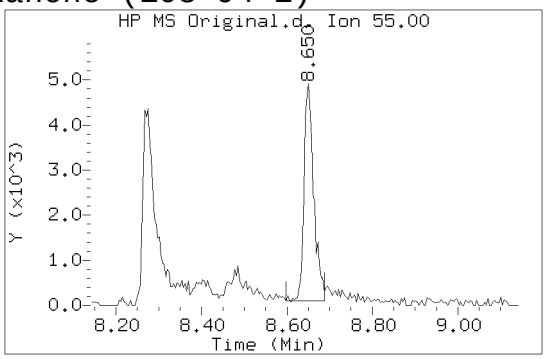
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Cyclohexanone (108-94-1)

Reason Code:

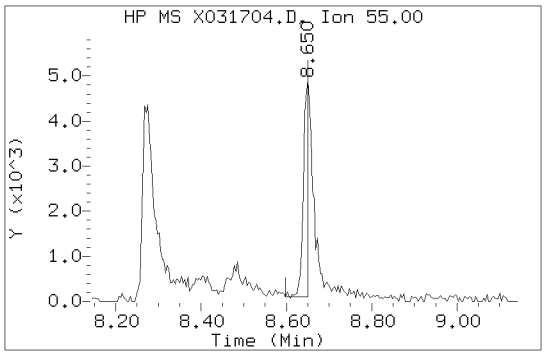
BEFORE

MASS
55
AREA
7784
HEIGHT
4818
30-Mar-2023
12:33
linh
pham



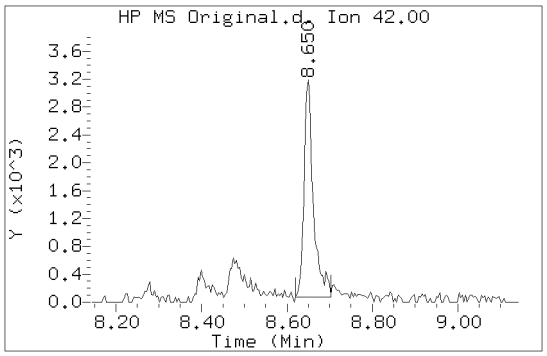
AFTER

MASS
55
AREA
3987
HEIGHT
4818
30-Mar-2023
12:41
linh
pham



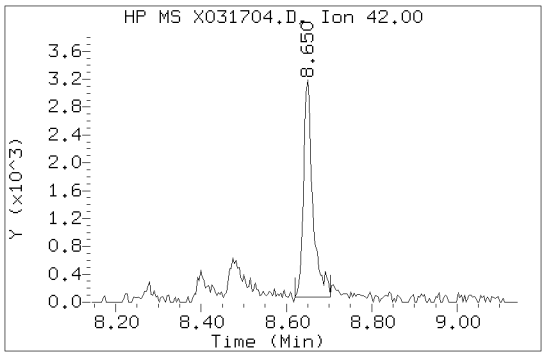
BEFORE

MASS
42
AREA
4854
HEIGHT
3120
30-Mar-2023
12:33
linh
pham



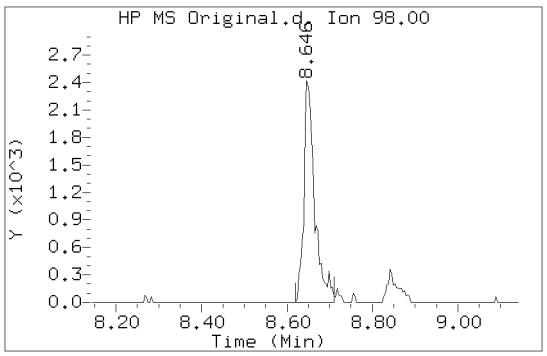
AFTER

MASS
42
AREA
4854
HEIGHT
3120
30-Mar-2023
12:41
linh
pham



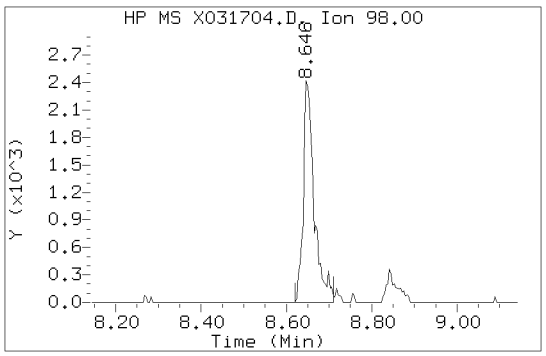
BEFORE

MASS
98
AREA
4345
HEIGHT
2420
30-Mar-2023
12:33
linh
pham



AFTER

MASS
98
AREA
4345
HEIGHT
2420
30-Mar-2023
12:41
linh
pham

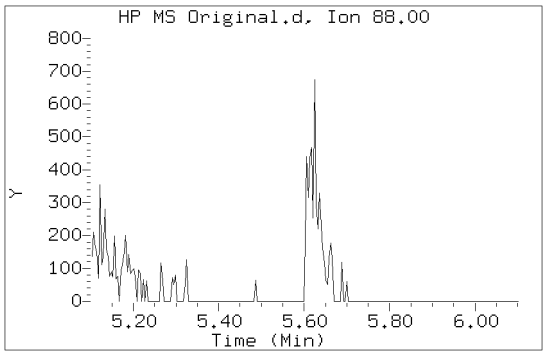


1,4-Dioxane ()

Reason Code:

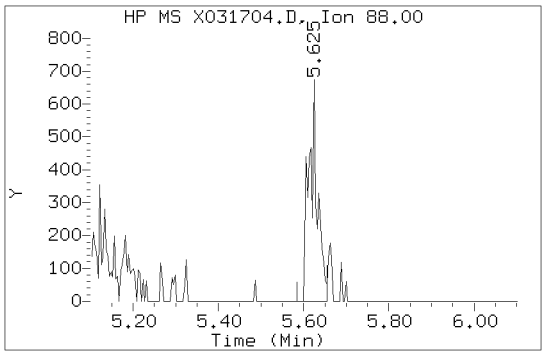
BEFORE

MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
88
AREA
953
HEIGHT
674
30-Mar-2023
12:41
linh
pham



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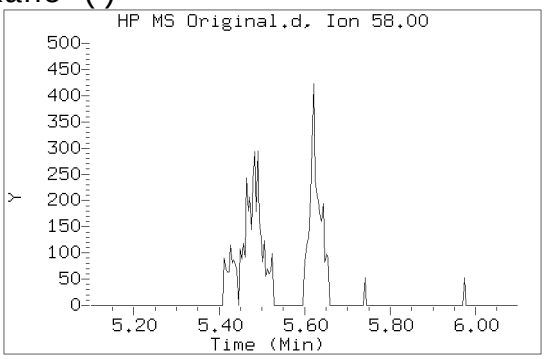
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,4-Dioxane ()

Reason Code:

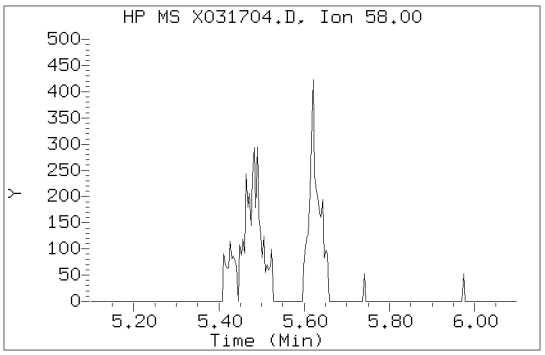
BEFORE

MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

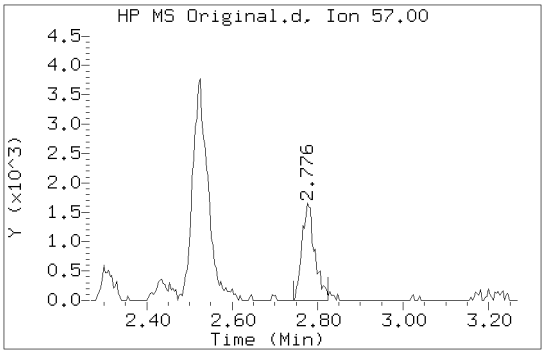


n-Hexane (110-54-3)

Reason Code:

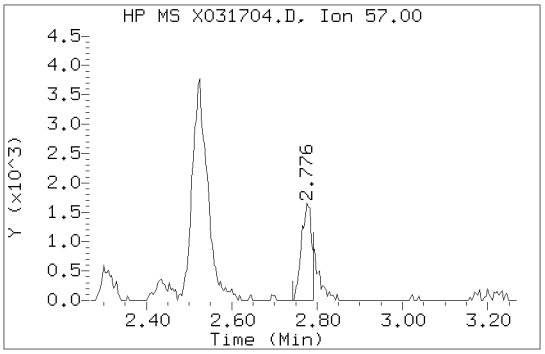
BEFORE

MASS
57
AREA
3493
HEIGHT
1662
30-Mar-2023
12:33
linh
pham



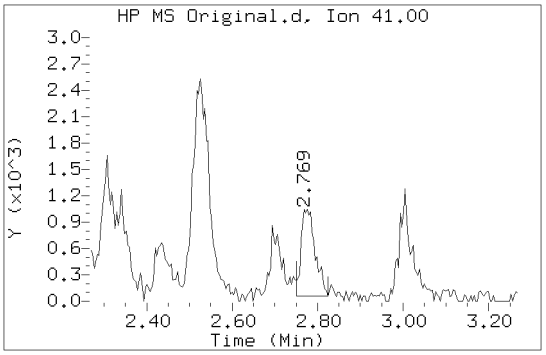
AFTER

MASS
57
AREA
2771
HEIGHT
1662
30-Mar-2023
12:41
linh
pham



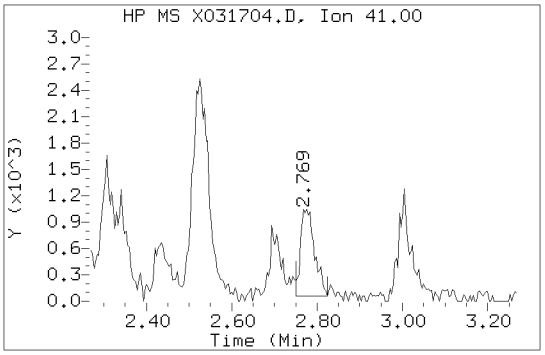
BEFORE

MASS
41
AREA
2298
HEIGHT
985
30-Mar-2023
12:33
linh
pham



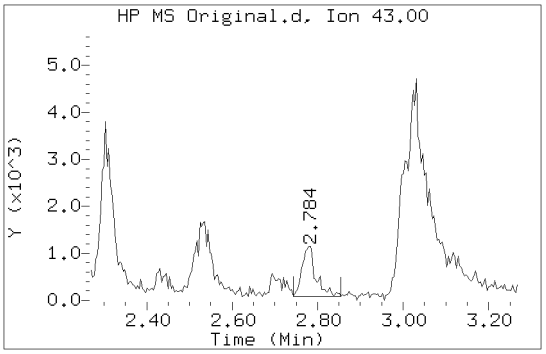
AFTER

MASS
41
AREA
2298
HEIGHT
985
30-Mar-2023
12:41
linh
pham



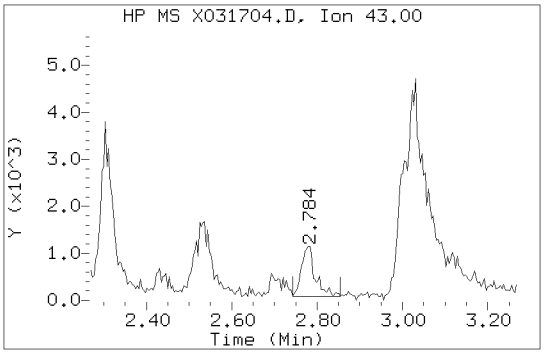
BEFORE

MASS
43
AREA
2392
HEIGHT
1064
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
AREA
2392
HEIGHT
1064
30-Mar-2023
12:41
linh
pham



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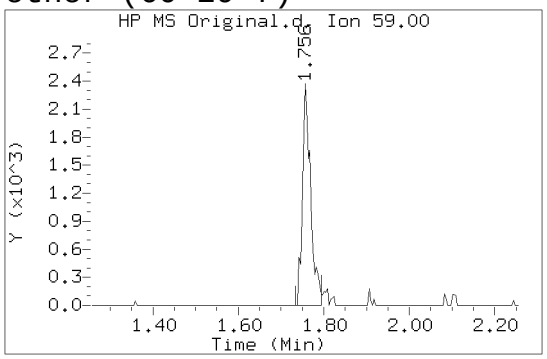
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Diethyl ether (60-29-7)

Reason Code:

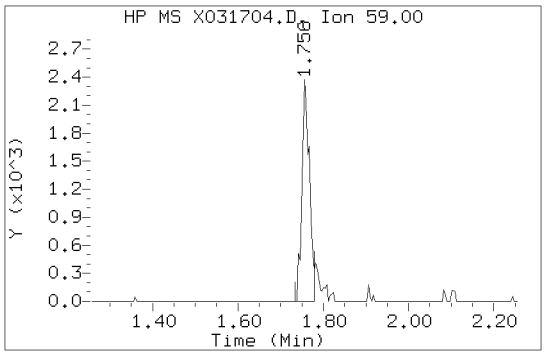
BEFORE

MASS
59
AREA
3185
HEIGHT
2372
30-Mar-2023
12:33
linh
pham



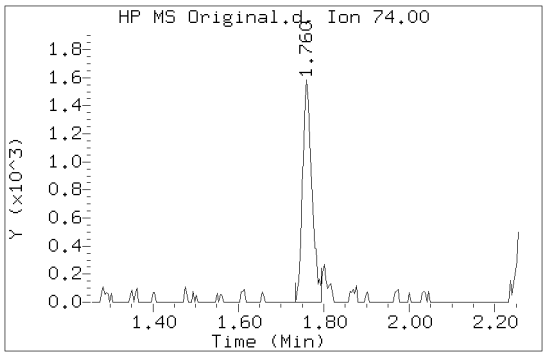
AFTER

MASS
59
AREA
2934
HEIGHT
2372
30-Mar-2023
12:41
linh
pham



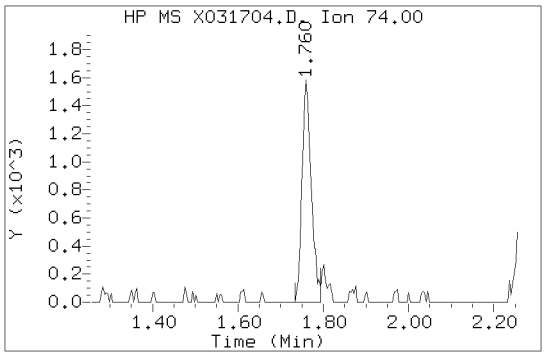
BEFORE

MASS
74
AREA
2425
HEIGHT
1584
30-Mar-2023
12:33
linh
pham



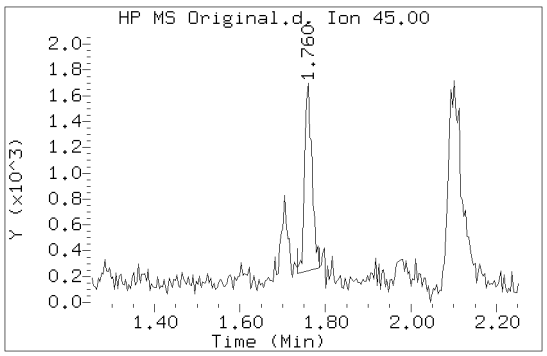
AFTER

MASS
74
AREA
2425
HEIGHT
1584
30-Mar-2023
12:41
linh
pham



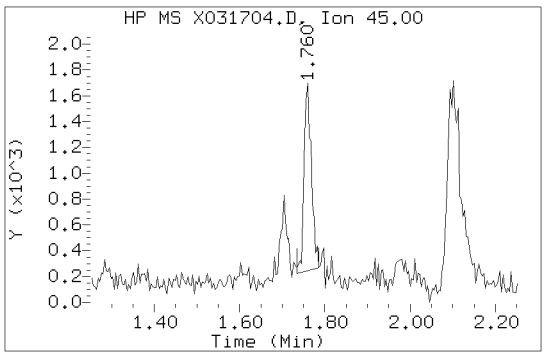
BEFORE

MASS
45
AREA
1781
HEIGHT
1452
30-Mar-2023
12:33
linh
pham



AFTER

MASS
45
AREA
1781
HEIGHT
1452
30-Mar-2023
12:41
linh
pham

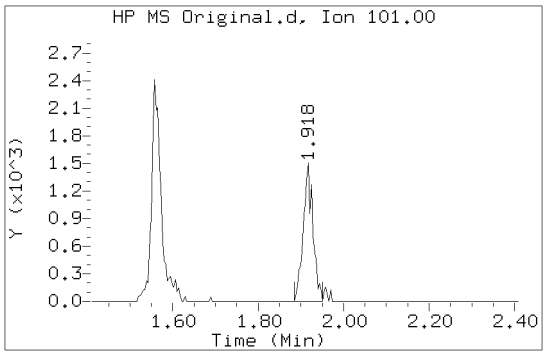


Freon TF (76-13-1)

Reason Code:

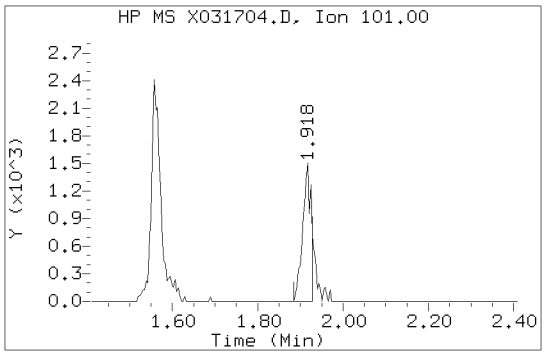
BEFORE

MASS
101
AREA
2402
HEIGHT
1502
30-Mar-2023
12:33
linh
pham



AFTER

MASS
101
AREA
2078
HEIGHT
1502
30-Mar-2023
12:41
linh
pham

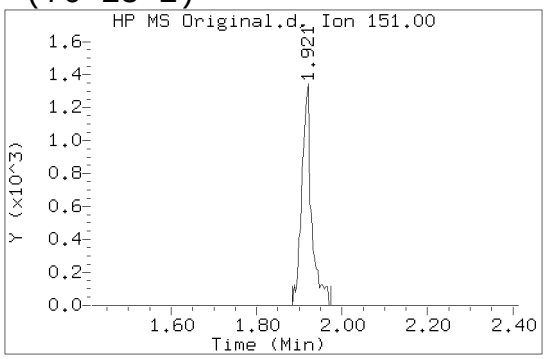


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Freon TF (76-13-1)

BEFORE

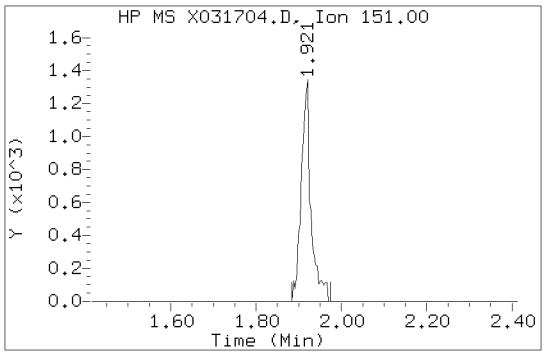
MASS
151
AREA
2175
HEIGHT
1345
30-Mar-2023
12:33
linh
pham



AFTER

MASS
151
AREA
2175
HEIGHT
1345
30-Mar-2023
12:41
linh
pham

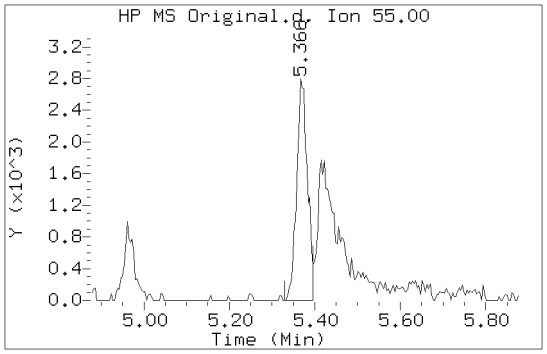
Reason Code:



Methylcyclohexane (108-87-2)

BEFORE

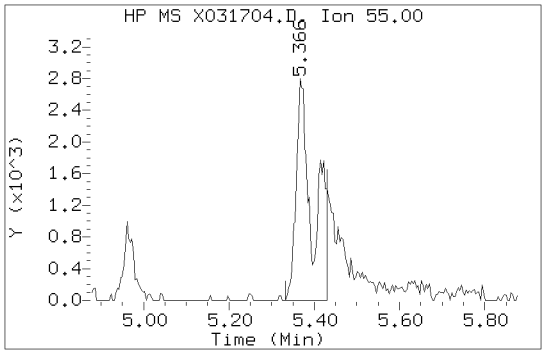
MASS
55
AREA
4999
HEIGHT
2799
30-Mar-2023
12:33
linh
pham



AFTER

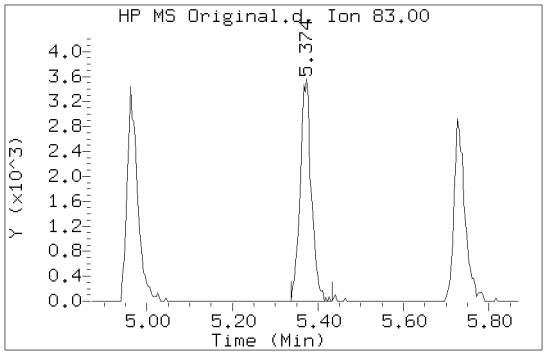
MASS
55
AREA
7595
HEIGHT
2799
30-Mar-2023
12:41
linh
pham

Reason Code:



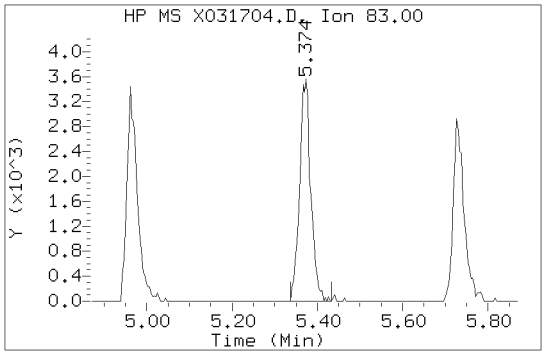
BEFORE

MASS
83
AREA
6611
HEIGHT
3563
30-Mar-2023
12:33
linh
pham



AFTER

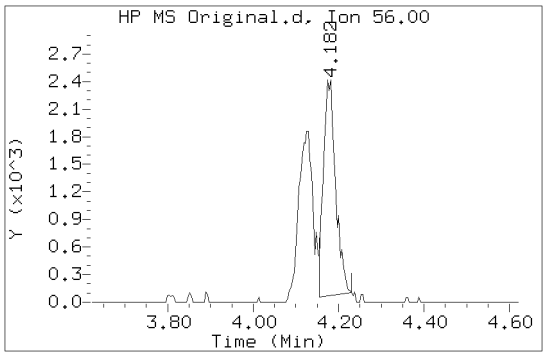
MASS
83
AREA
6611
HEIGHT
3563
30-Mar-2023
12:41
linh
pham



Cyclohexane (110-82-7)

BEFORE

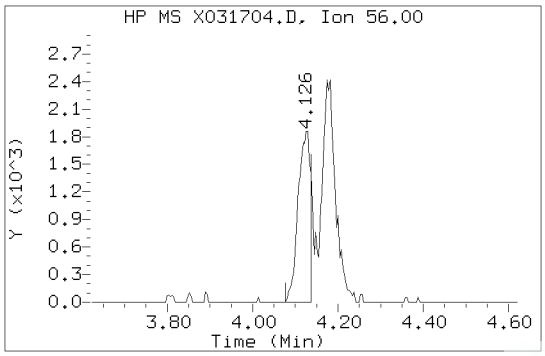
MASS
56
AREA
4672
HEIGHT
2345
30-Mar-2023
12:33
linh
pham



AFTER

MASS
56
AREA
3748
HEIGHT
1862
30-Mar-2023
12:41
linh
pham

Reason Code:

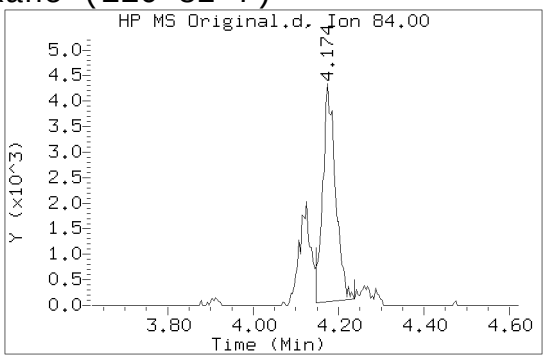


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

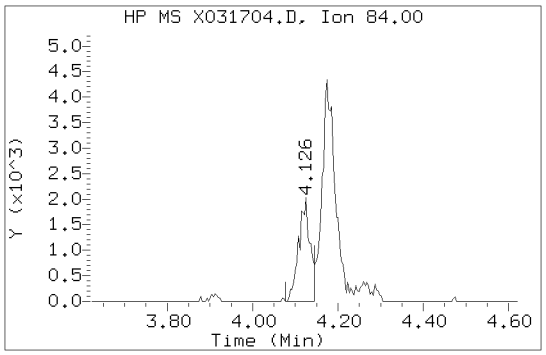
Cyclohexane (110-82-7)

Reason Code:

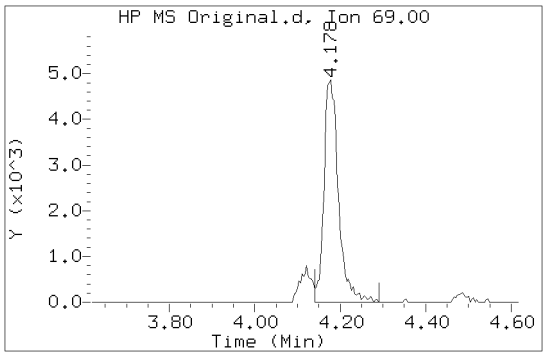
BEFORE
MASS
84
AREA
8833
HEIGHT
4266
30-Mar-2023
12:33
linh
pham



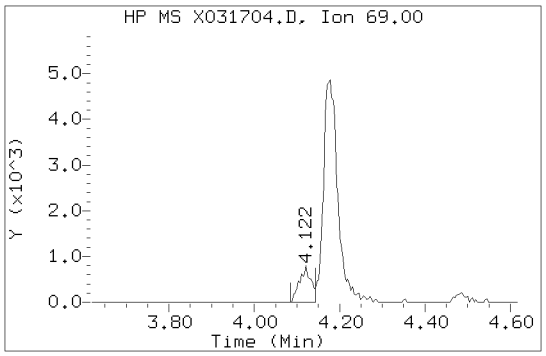
AFTER
MASS
84
AREA
3798
HEIGHT
2028
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
69
AREA
11518
HEIGHT
4862
30-Mar-2023
12:33
linh
pham



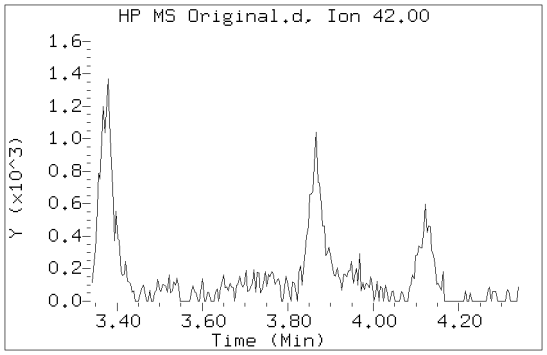
AFTER
MASS
69
AREA
1536
HEIGHT
806
30-Mar-2023
12:41
linh
pham



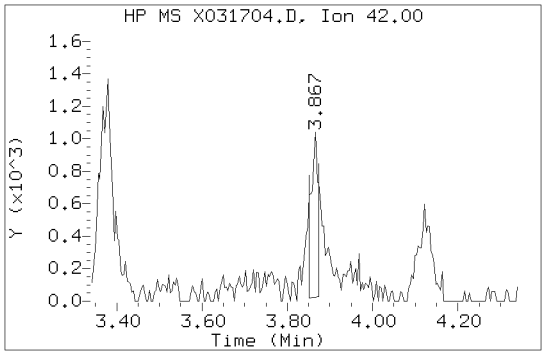
Tetrahydrofuran (109-99-9)

Reason Code:

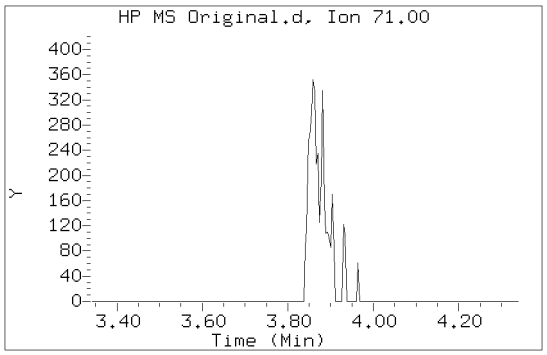
BEFORE
MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



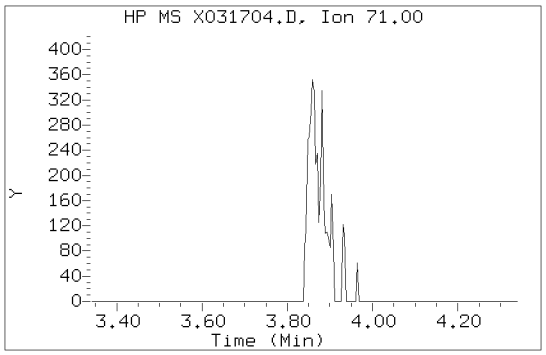
AFTER
MASS
42
AREA
1179
HEIGHT
1015
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
71
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
71
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



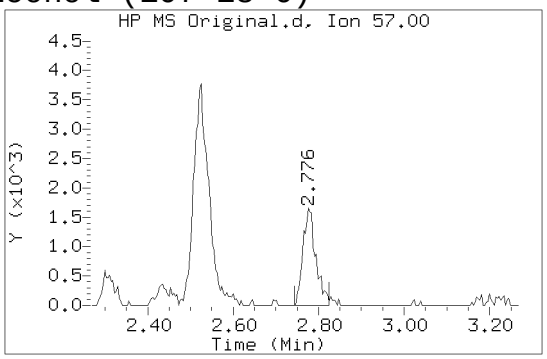
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Allyl alcohol (107-18-6)

Reason Code:

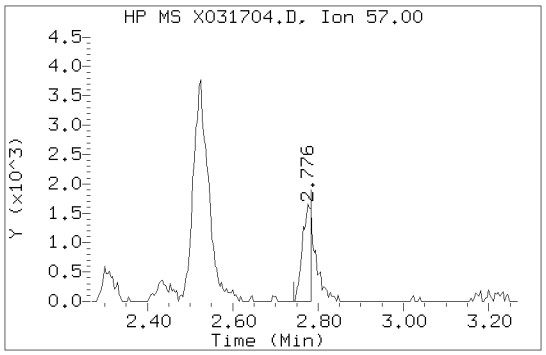
BEFORE

MASS
57
AREA
3493
HEIGHT
1662
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
2361
HEIGHT
1662
30-Mar-2023
12:41
linh
pham

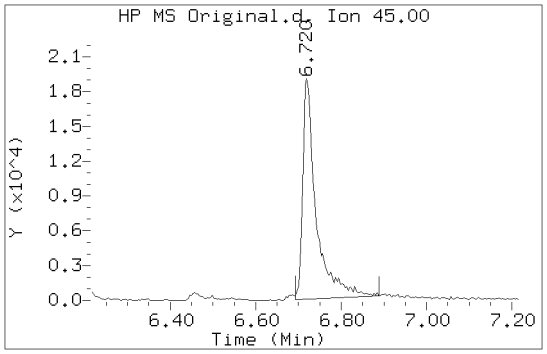


4-Methyl-2-pentanol (108-11-2)

Reason Code:

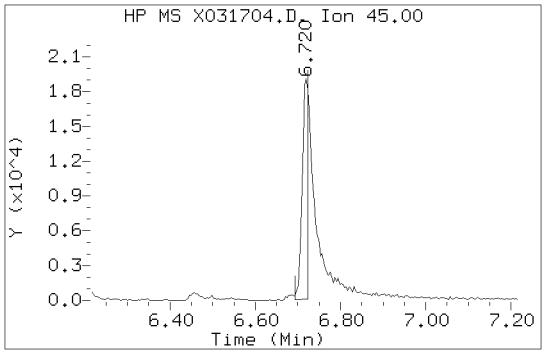
BEFORE

MASS
45
AREA
42281
HEIGHT
19018
30-Mar-2023
12:33
linh
pham



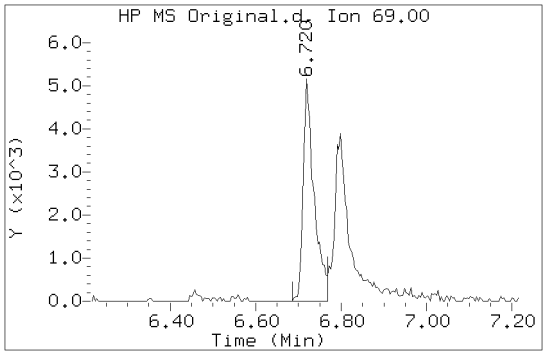
AFTER

MASS
45
AREA
18895
HEIGHT
19018
30-Mar-2023
12:41
linh
pham



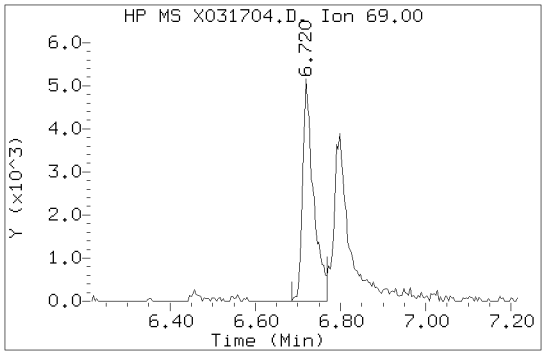
BEFORE

MASS
69
AREA
9311
HEIGHT
5158
30-Mar-2023
12:33
linh
pham



AFTER

MASS
69
AREA
9311
HEIGHT
5158
30-Mar-2023
12:41
linh
pham

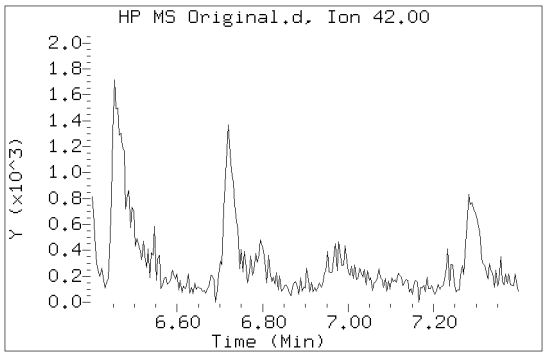


Amyl alcohol (71-41-0)

Reason Code:

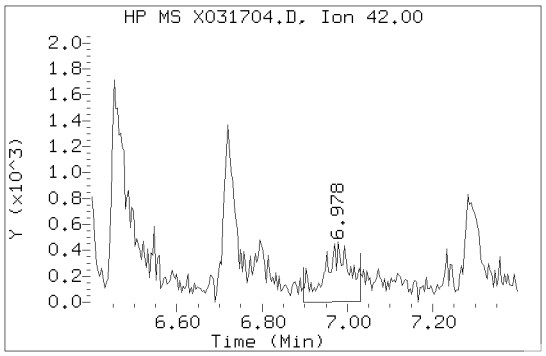
BEFORE

MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
42
AREA
1880
HEIGHT
462
30-Mar-2023
12:41
linh
pham

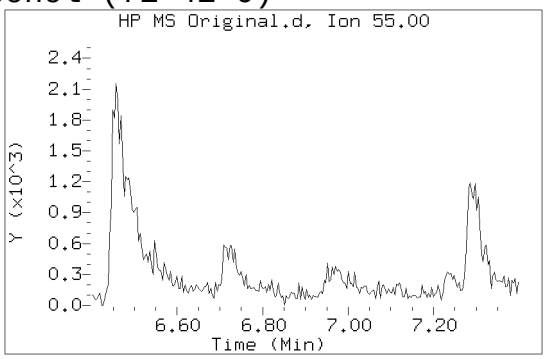


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

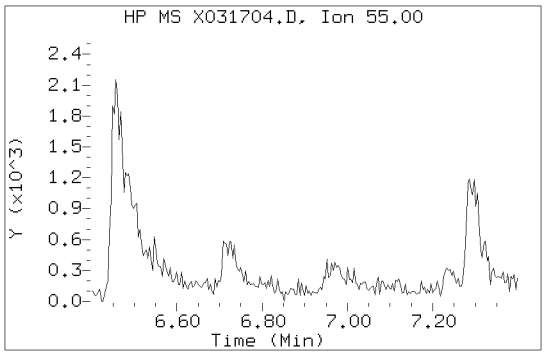
Amyl alcohol (71-41-0)

Reason Code:

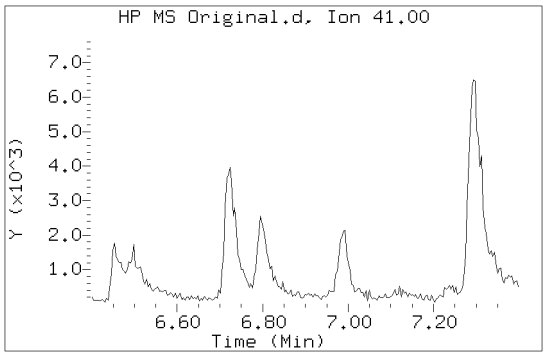
BEFORE
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



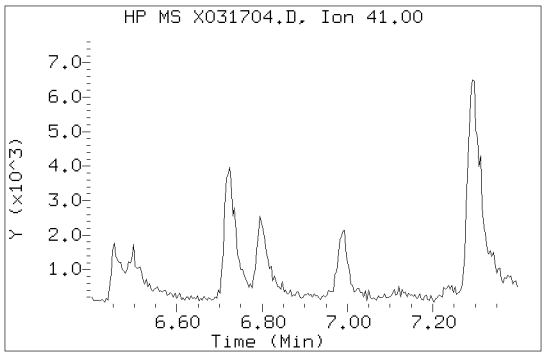
AFTER
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



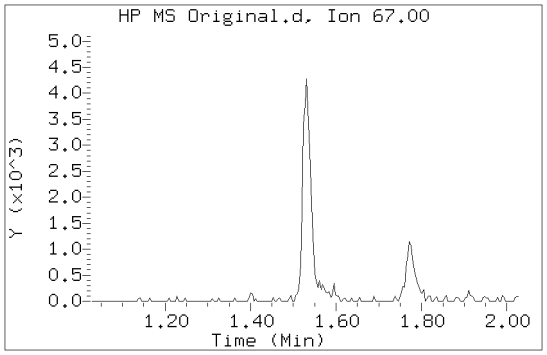
AFTER
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



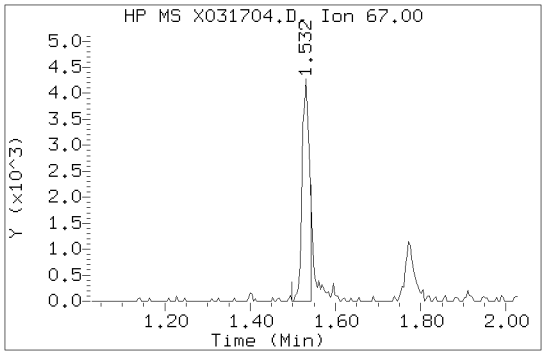
Dichlorofluoromethane (75-43-4)

Reason Code:

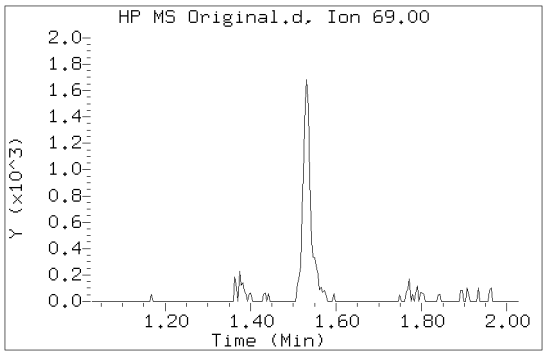
BEFORE
MASS
67
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



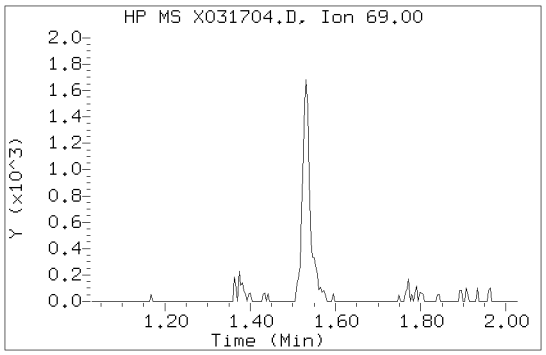
AFTER
MASS
67
AREA
5093
HEIGHT
4276
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

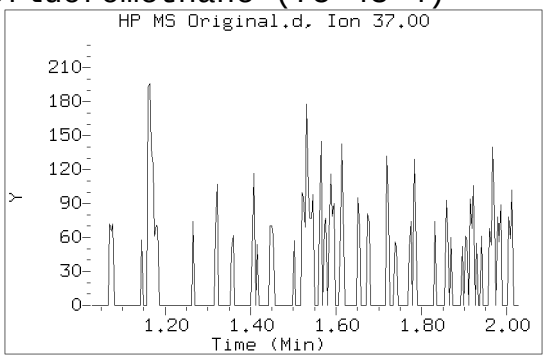


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

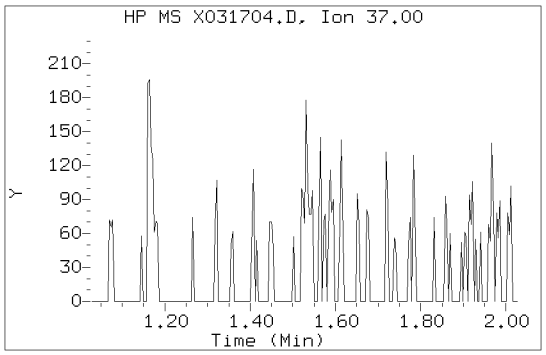
Dichlorofluoromethane (75-43-4)

Reason Code:

BEFORE
MASS
37
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



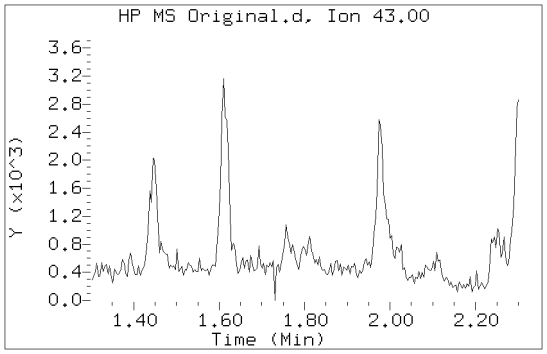
AFTER
MASS
37
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



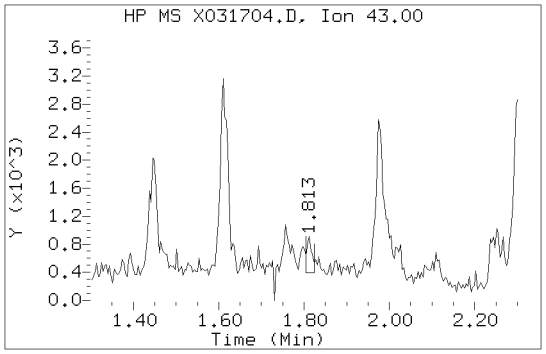
Propylene oxide ()

Reason Code:

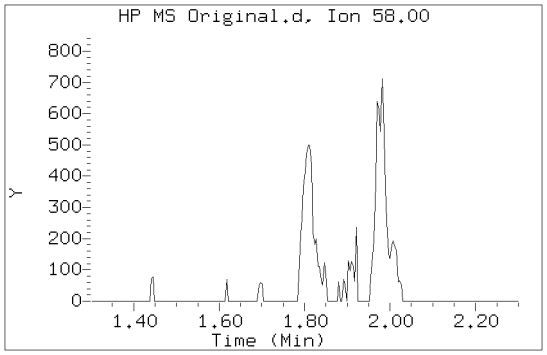
BEFORE
MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



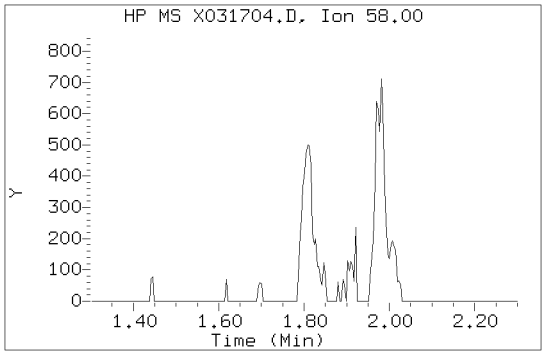
AFTER
MASS
43
AREA
432
HEIGHT
520
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



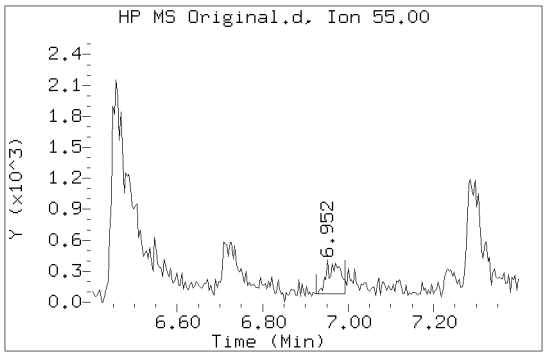
AFTER
MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



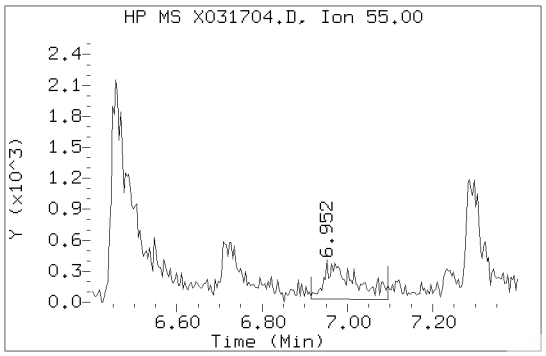
3-Methyl-1-butanol (123-51-3)

Reason Code:

BEFORE
MASS
55
AREA
695
HEIGHT
332
30-Mar-2023
12:33
linh
pham



AFTER
MASS
55
AREA
1791
HEIGHT
379
30-Mar-2023
12:41
linh
pham



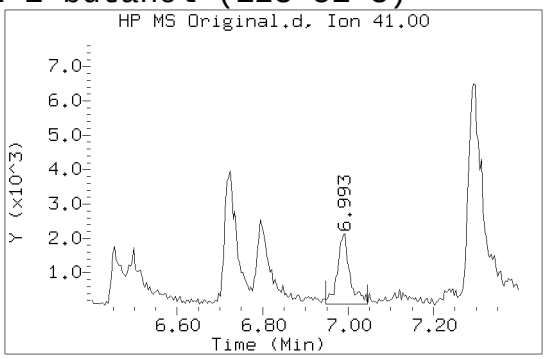
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

3-Methyl-1-butanol (123-51-3)

Reason Code:

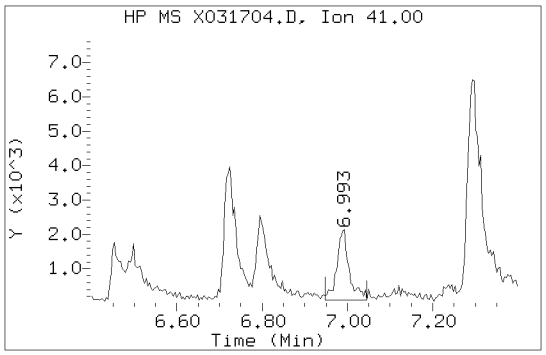
BEFORE

MASS
41
AREA
4088
HEIGHT
2043
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
4088
HEIGHT
2043
30-Mar-2023
12:41
linh
pham

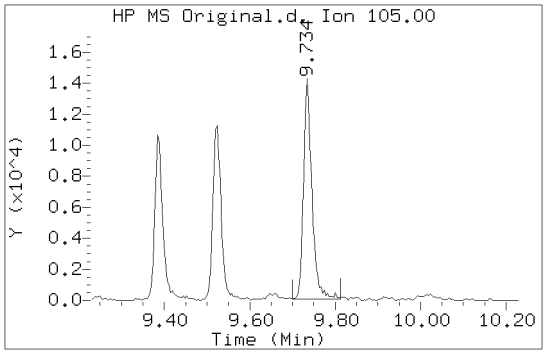


1,2,3-Trimethylbenzene (526-73-8)

Reason Code:

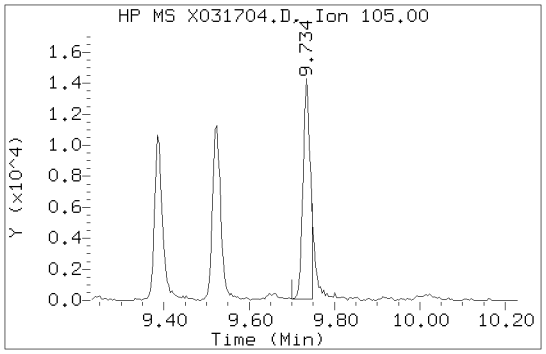
BEFORE

MASS
105
AREA
19912
HEIGHT
14211
30-Mar-2023
12:33
linh
pham



AFTER

MASS
105
AREA
17375
HEIGHT
14211
30-Mar-2023
12:41
linh
pham

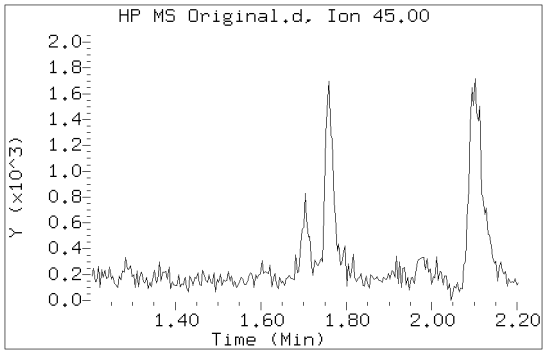


Ethanol (64-17-5)

Reason Code:

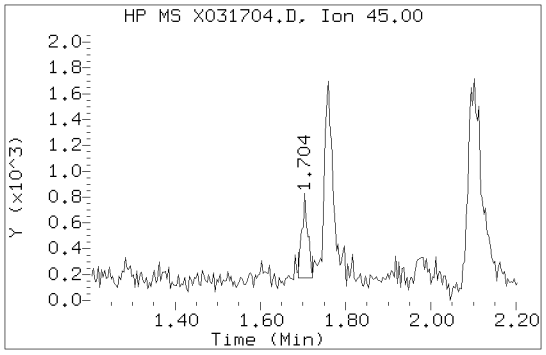
BEFORE

MASS
45
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
45
AREA
656
HEIGHT
654
30-Mar-2023
12:41
linh
pham

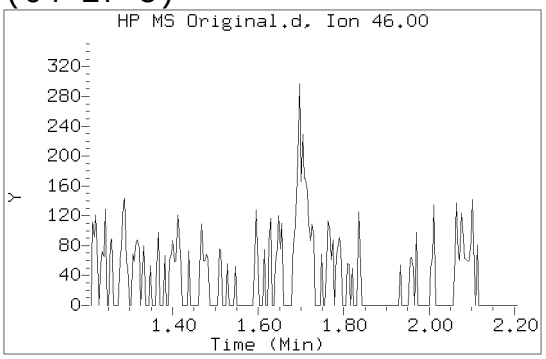


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Ethanol (64-17-5)

BEFORE

MASS
46
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



BEFORE

MASS
43
AREA
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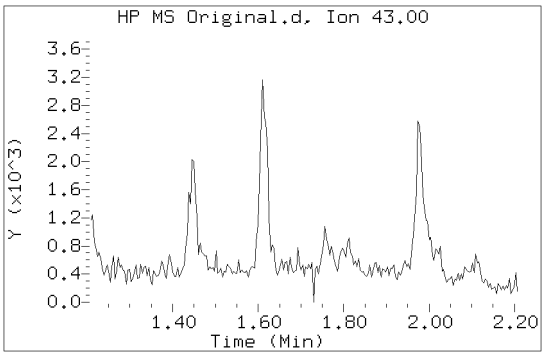
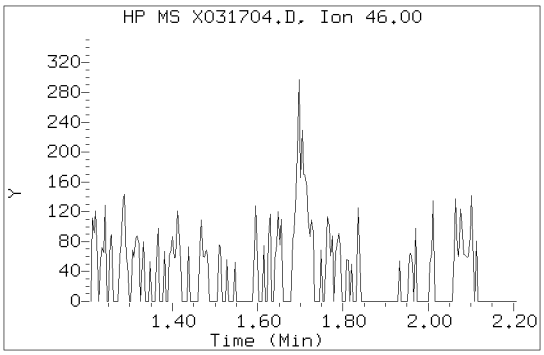
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

MASS
46
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



AFTER

MASS
43
AREA
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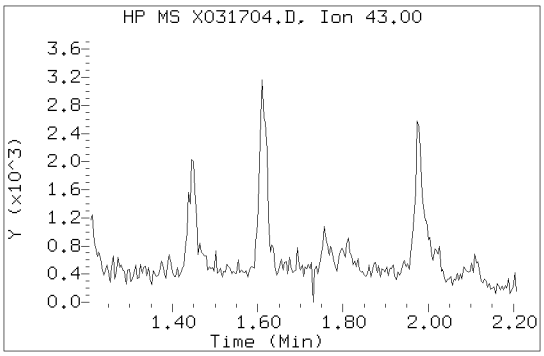
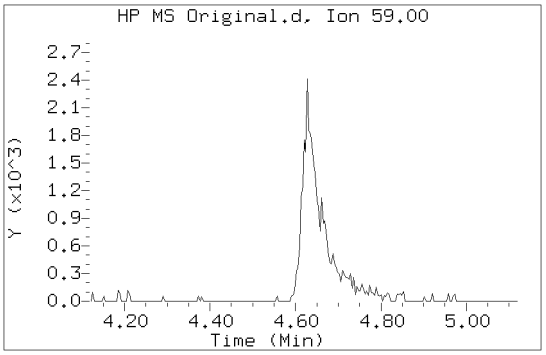
HEIGHT
0
30-Mar-2023
12:41
linh
pham



tert-Butyl formate (762-75-4)

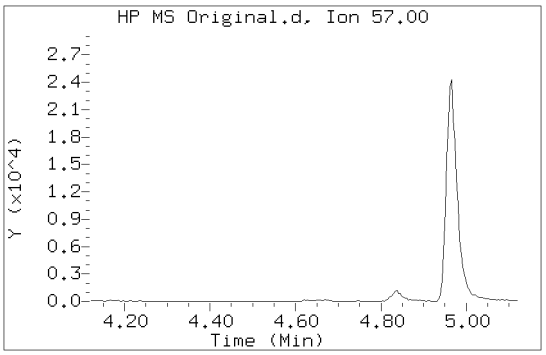
BEFORE

MASS
59
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



BEFORE

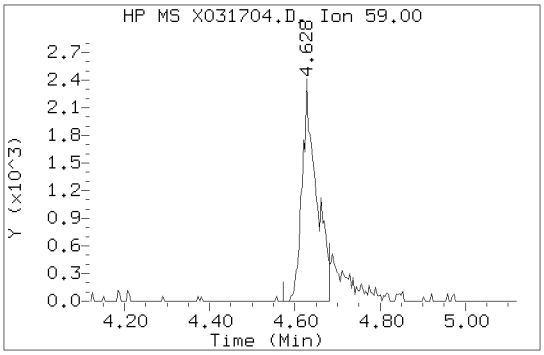
MASS
57
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

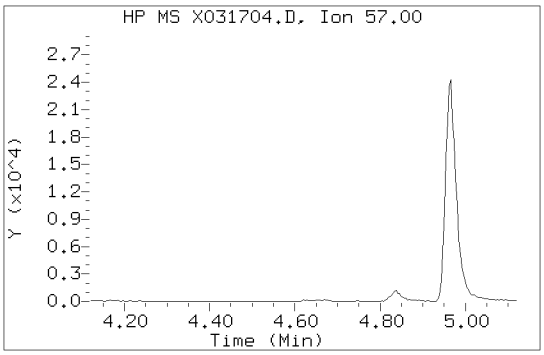
AFTER

MASS
59
AREA
5691
HEIGHT
2413
30-Mar-2023
12:41
linh
pham



AFTER

MASS
57
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

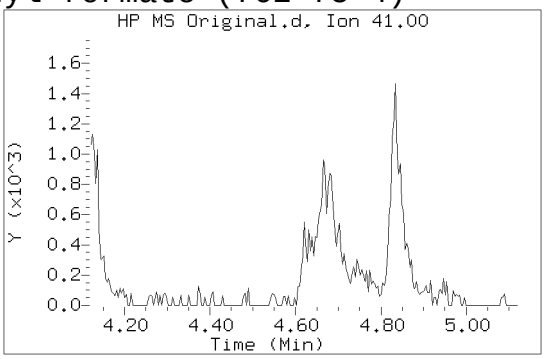


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

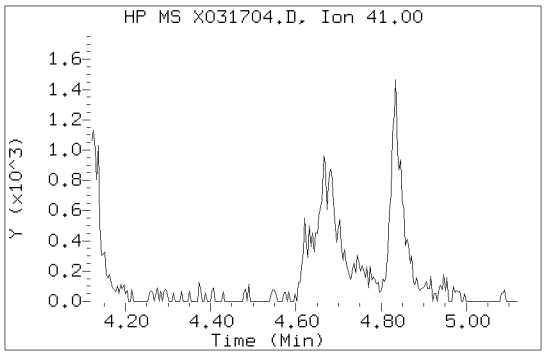
tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



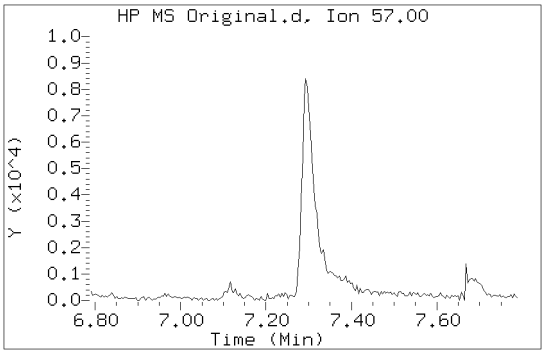
AFTER
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



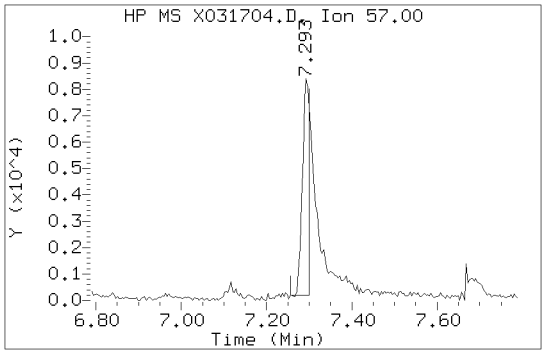
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

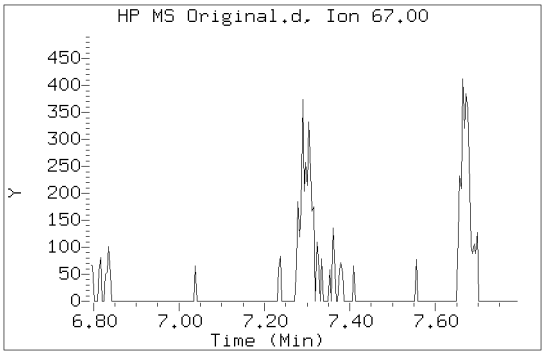
BEFORE
MASS
57
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



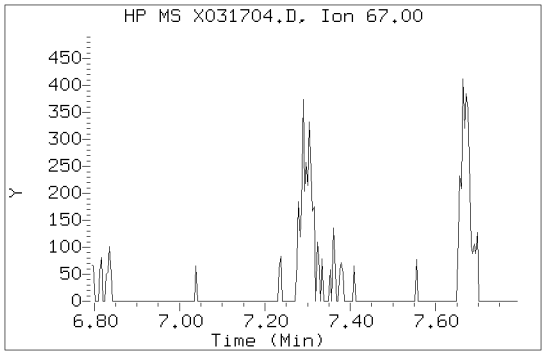
AFTER
MASS
57
AREA
9512
HEIGHT
8210
30-Mar-2023
12:41
linh
pham



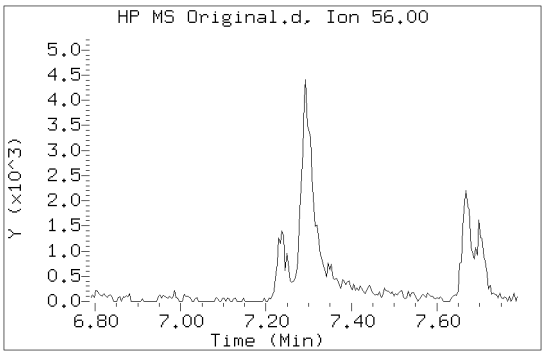
BEFORE
MASS
67
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



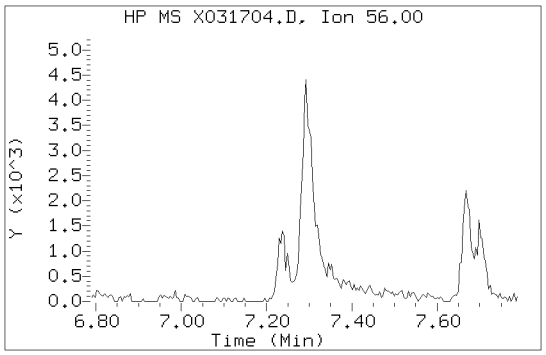
AFTER
MASS
67
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

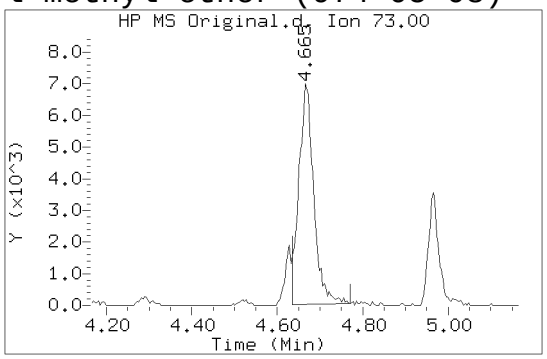


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

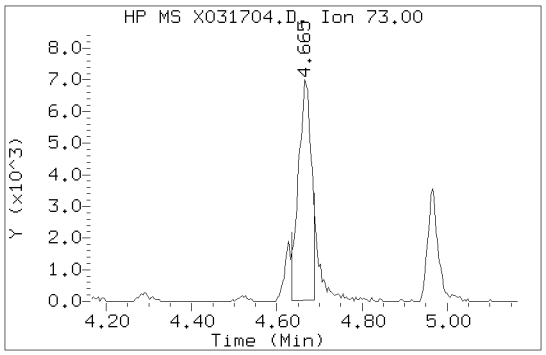
tert-Amyl methyl ether (974-05-08)

Reason Code:

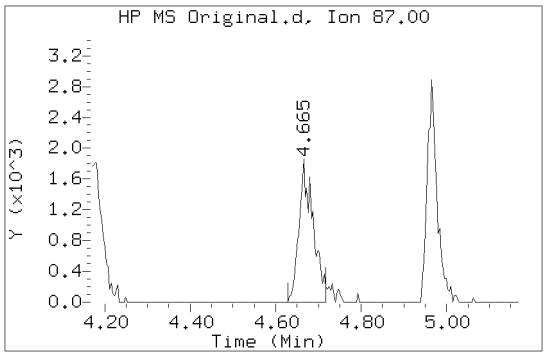
BEFORE
MASS
73
AREA
17196
HEIGHT
6981
30-Mar-2023
12:33
linh
pham



AFTER
MASS
73
AREA
14951
HEIGHT
6982
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
87
AREA
4319
HEIGHT
1864
30-Mar-2023
12:33
linh
pham



AFTER
MASS
87
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4319
HEIGHT
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30-Mar-2023
12:41
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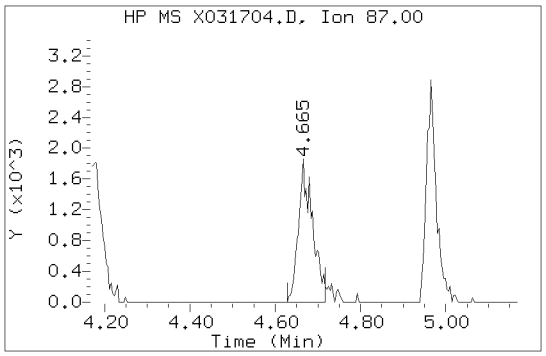
pham



BEFORE
MASS
55
AREA
4389
HEIGHT
1902
30-Mar-2023
12:33
linh
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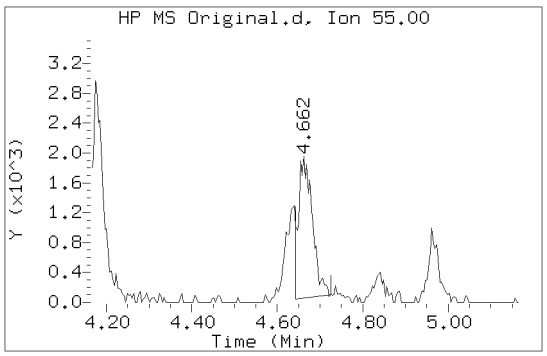
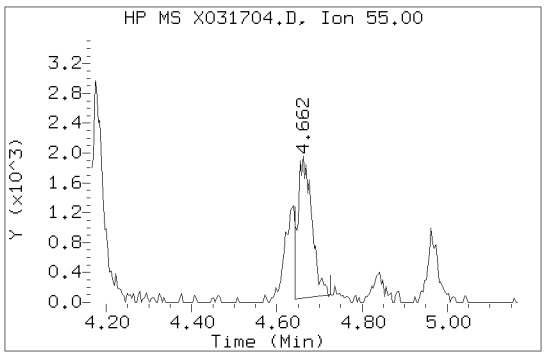


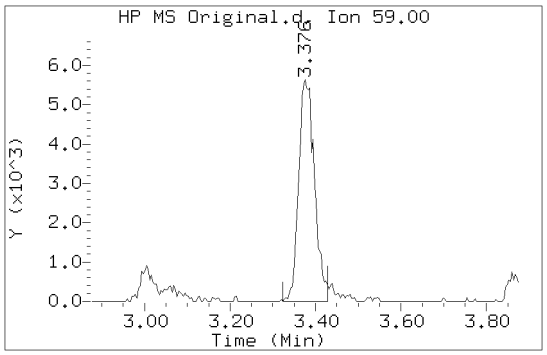
AFTER
MASS
55
AREA
4389
HEIGHT
1902
30-Mar-2023
12:41
linh
pham



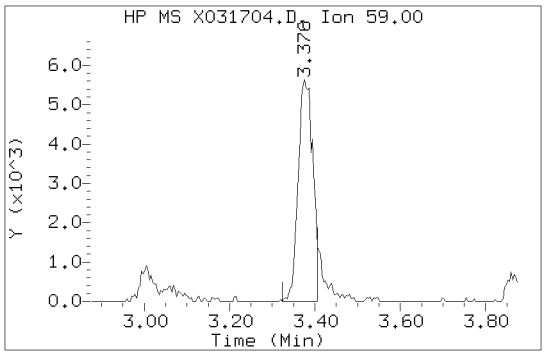
tert-Butyl ethyl ether (637-92-3)

Reason Code:

BEFORE
MASS
59
AREA
14741
HEIGHT
5638
30-Mar-2023
12:33
linh
pham



AFTER
MASS
59
AREA
13706
HEIGHT
5638
30-Mar-2023
12:41
linh
pham



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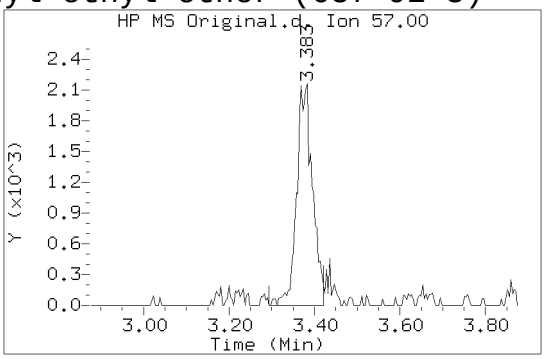
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

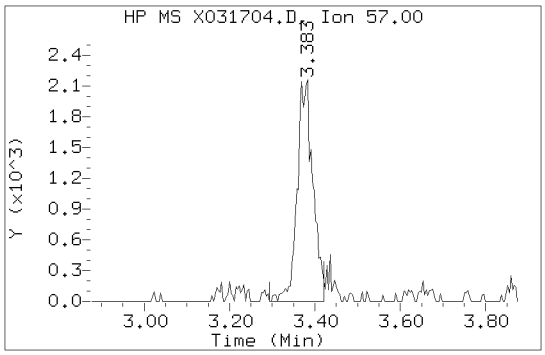
tert-Butyl ethyl ether (637-92-3)

Reason Code:

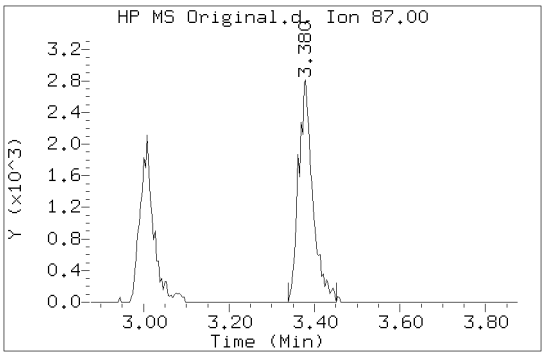
BEFORE
MASS
57
AREA
5639
HEIGHT
2164
30-Mar-2023
12:33
linh
pham



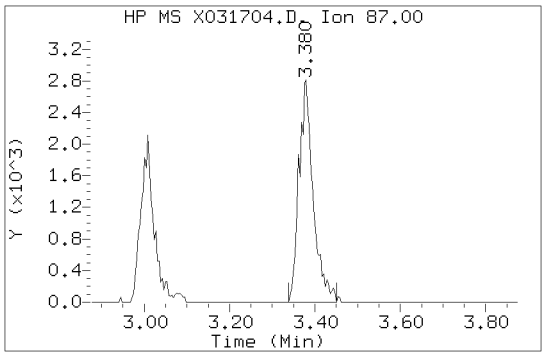
AFTER
MASS
57
AREA
5639
HEIGHT
2164
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
87
AREA
6630
HEIGHT
2813
30-Mar-2023
12:33
linh
pham



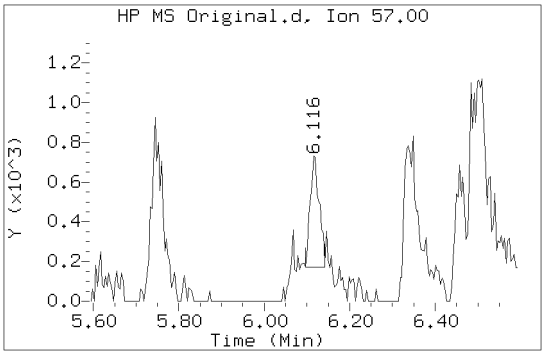
AFTER
MASS
87
AREA
6630
HEIGHT
2813
30-Mar-2023
12:41
linh
pham



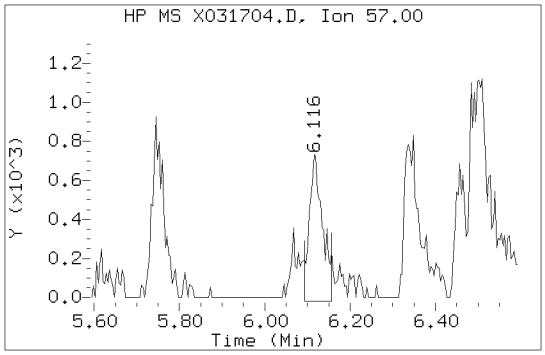
Epichlorohydrin (106-89-8)

Reason Code:

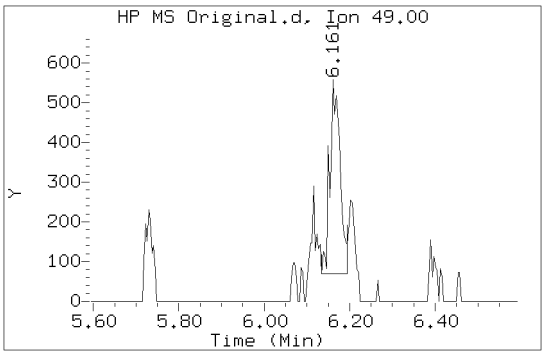
BEFORE
MASS
57
AREA
816
HEIGHT
558
30-Mar-2023
12:33
linh
pham



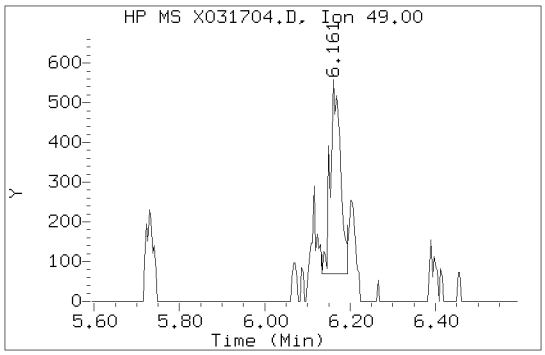
AFTER
MASS
57
AREA
1658
HEIGHT
750
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
49
AREA
808
HEIGHT
488
30-Mar-2023
12:33
linh
pham



AFTER
MASS
49
AREA
808
HEIGHT
488
30-Mar-2023
12:41
linh
pham



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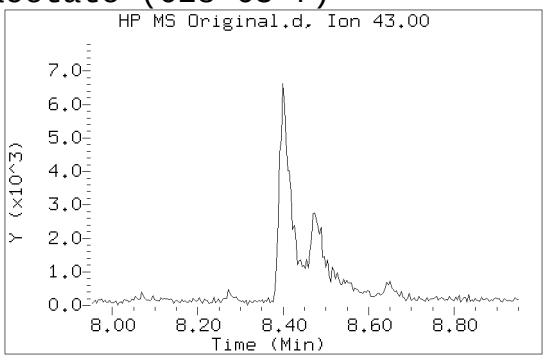
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

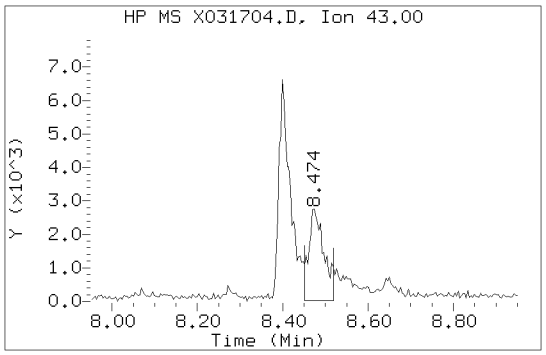
n-Amyl acetate (628-63-7)

Reason Code:

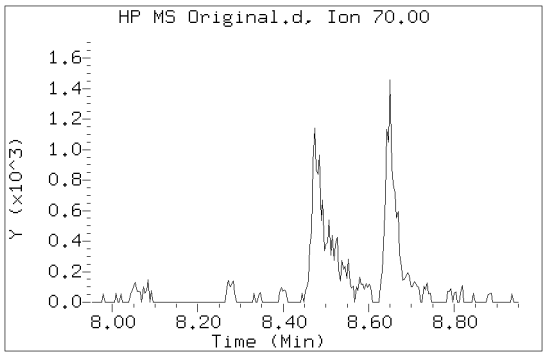
BEFORE
MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



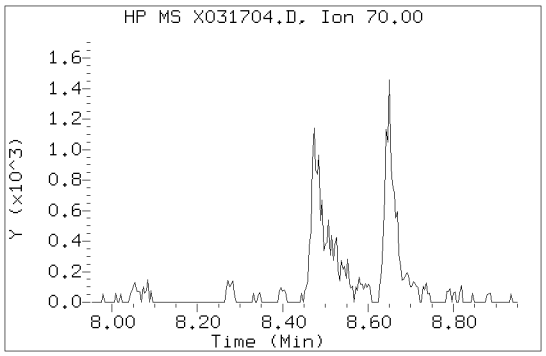
AFTER
MASS
43
AREA
6908
HEIGHT
2721
30-Mar-2023
12:41
linh
pham



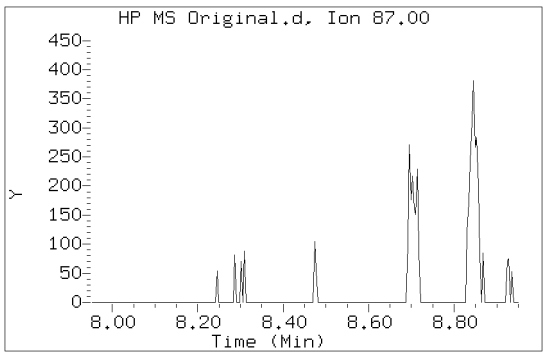
BEFORE
MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



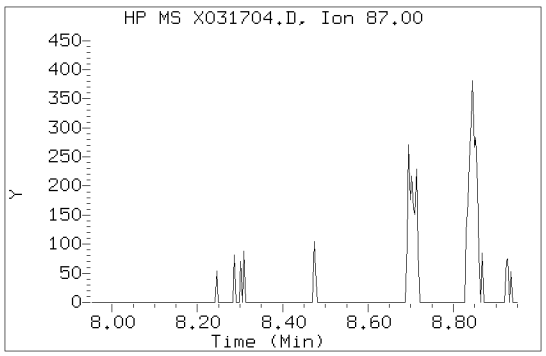
AFTER
MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



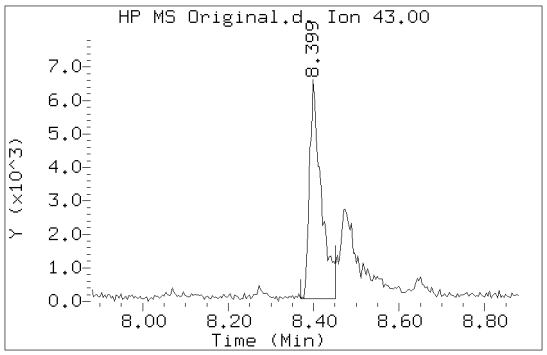
AFTER
MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



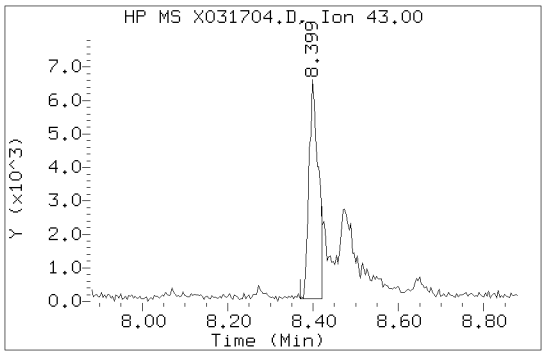
Methyl Amyl Ketone (110-43-0)

Reason Code:

BEFORE
MASS
43
AREA
12465
HEIGHT
6550
30-Mar-2023
12:33
linh
pham



AFTER
MASS
43
AREA
9932
HEIGHT
6550
30-Mar-2023
12:41
linh
pham



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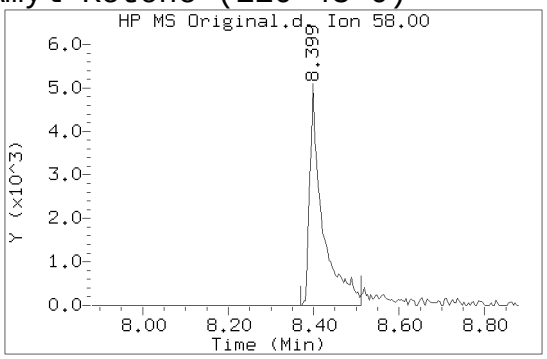
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Methyl Amyl Ketone (110-43-0)

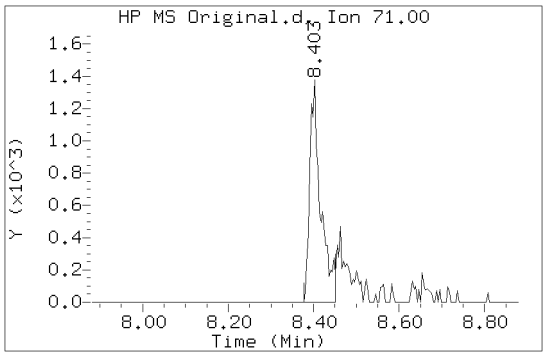
BEFORE

MASS
58
AREA
10632
HEIGHT
5098
30-Mar-2023
12:33
linh
pham



BEFORE

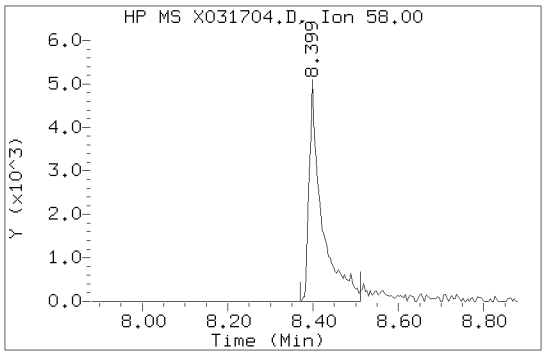
MASS
71
AREA
2444
HEIGHT
1378
30-Mar-2023
12:33
linh
pham



Reason Code:

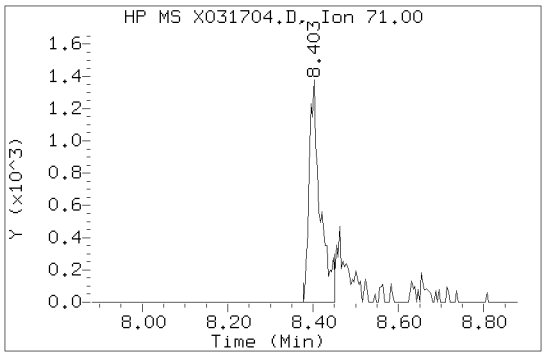
AFTER

MASS
58
AREA
10632
HEIGHT
5098
30-Mar-2023
12:41
linh
pham



AFTER

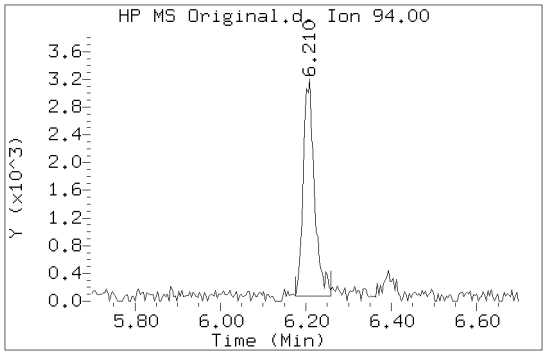
MASS
71
AREA
2444
HEIGHT
1378
30-Mar-2023
12:41
linh
pham



Dimethyl Disulfide (624-92-0)

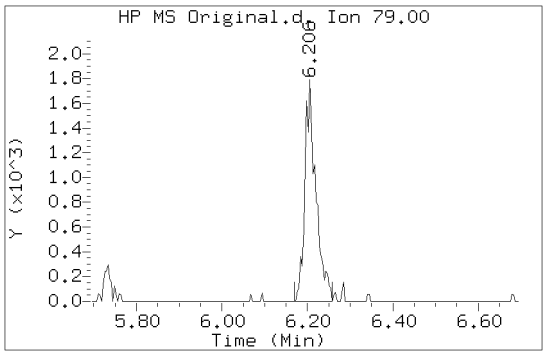
BEFORE

MASS
94
AREA
5811
HEIGHT
3131
30-Mar-2023
12:33
linh
pham



BEFORE

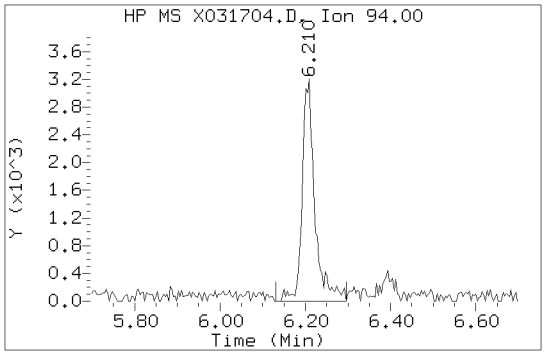
MASS
79
AREA
3238
HEIGHT
1790
30-Mar-2023
12:33
linh
pham



Reason Code:

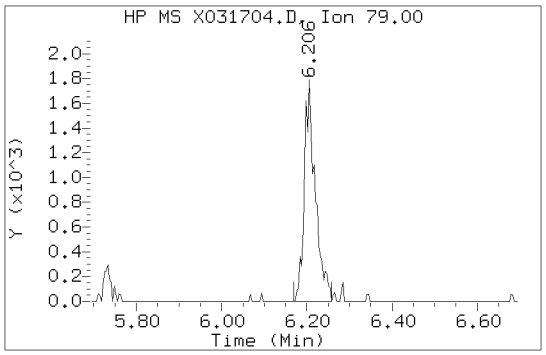
AFTER

MASS
94
AREA
6718
HEIGHT
3207
30-Mar-2023
12:41
linh
pham



AFTER

MASS
79
AREA
3238
HEIGHT
1790
30-Mar-2023
12:41
linh
pham



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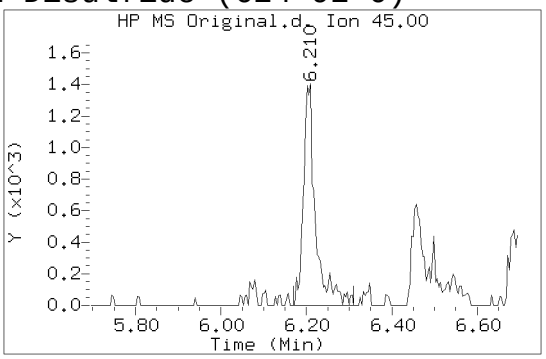
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Dimethyl Disulfide (624-92-0)

Reason Code:

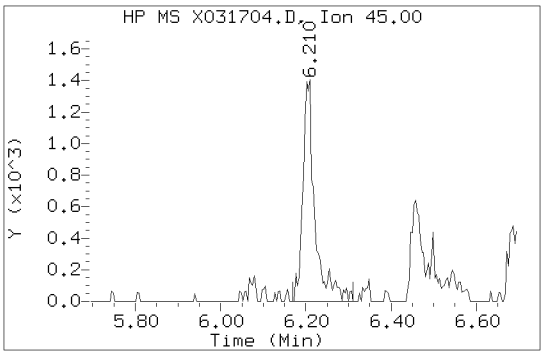
BEFORE

MASS
45
AREA
2788
HEIGHT
1405
30-Mar-2023
12:33
linh
pham



AFTER

MASS
45
AREA
2788
HEIGHT
1405
30-Mar-2023
12:41
linh
pham

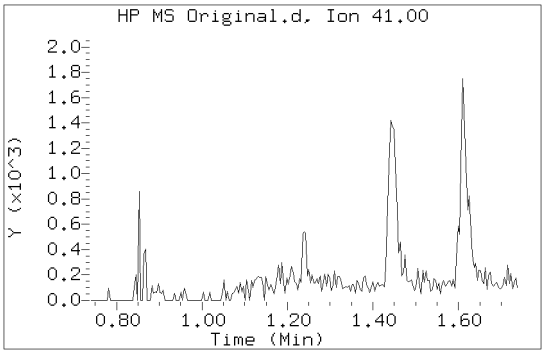


Isobutylene (115-11-7)

Reason Code:

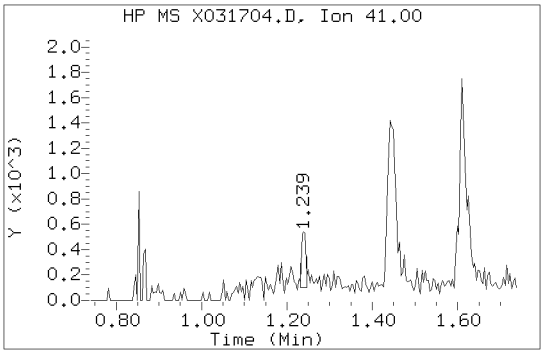
BEFORE

MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



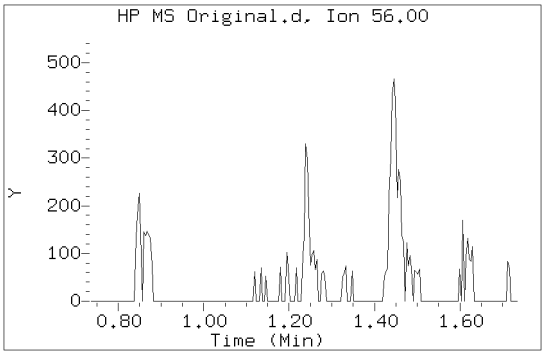
AFTER

MASS
41
AREA
321
HEIGHT
439
30-Mar-2023
12:41
linh
pham



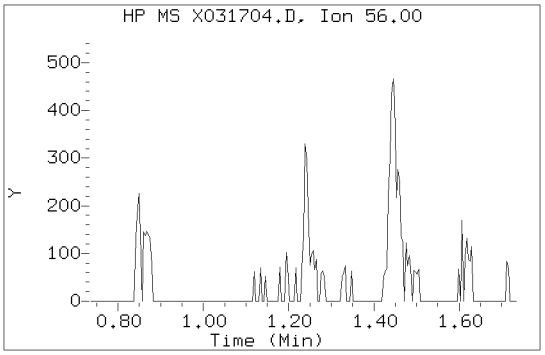
BEFORE

MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



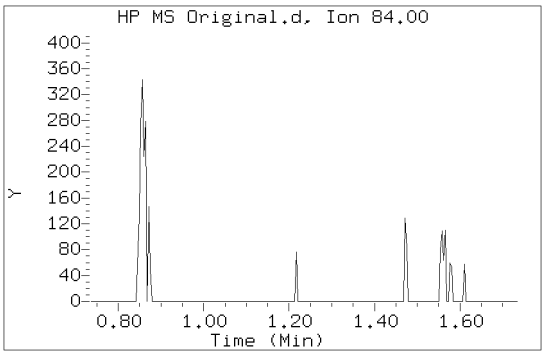
AFTER

MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



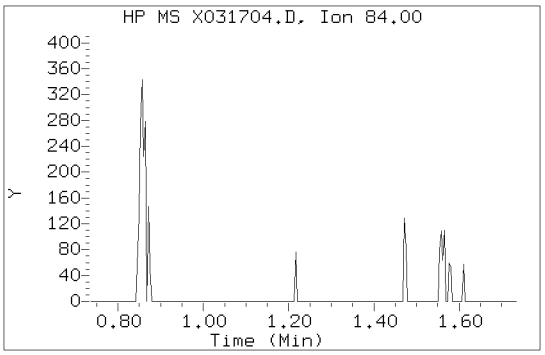
BEFORE

MASS
84
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
84
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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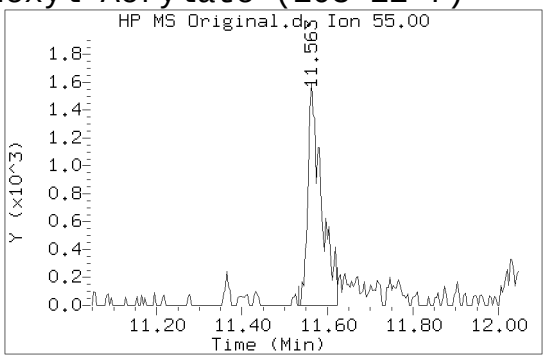
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

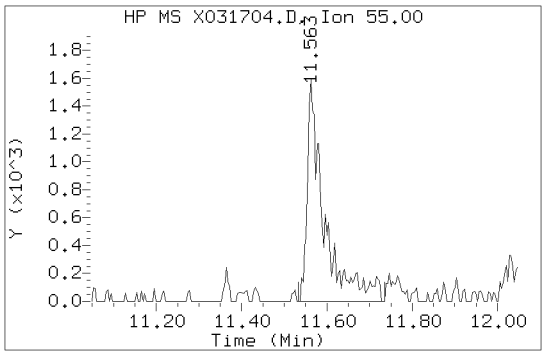
BEFORE

MASS
55
AREA
3508
HEIGHT
1590
30-Mar-2023
12:33
linh
pham



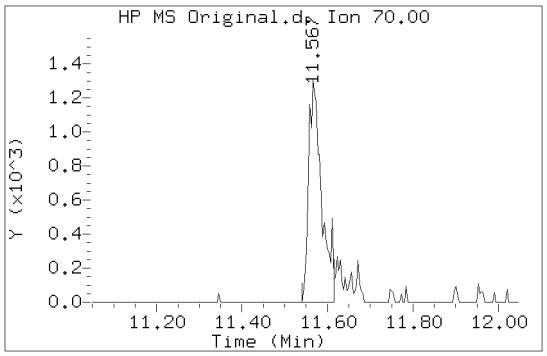
AFTER

MASS
55
AREA
4375
HEIGHT
1590
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
70
AREA
2764
HEIGHT
1306
30-Mar-2023
12:33
linh
pham



AFTER

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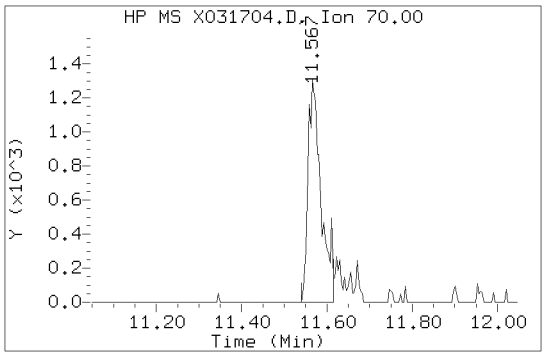

Dibromofluoromethane (1868-53-7)

Reason Code:

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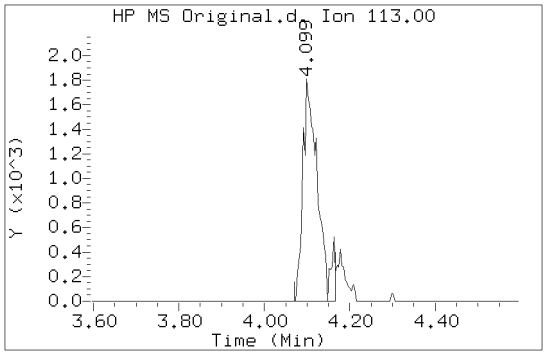

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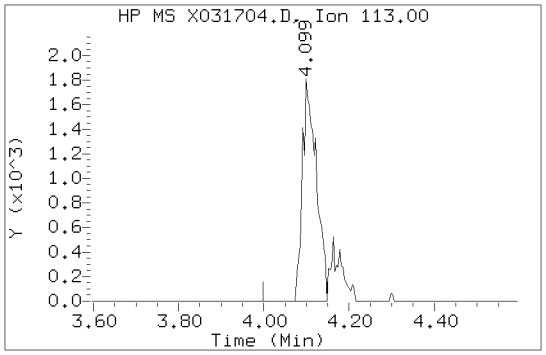

BEFORE

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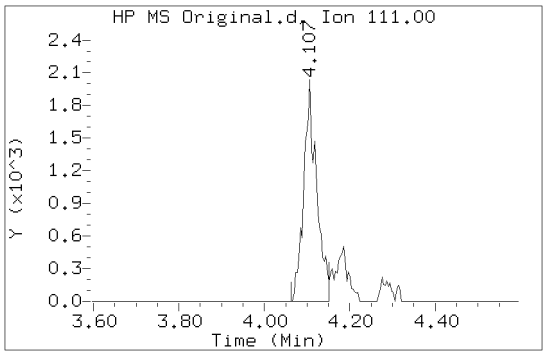

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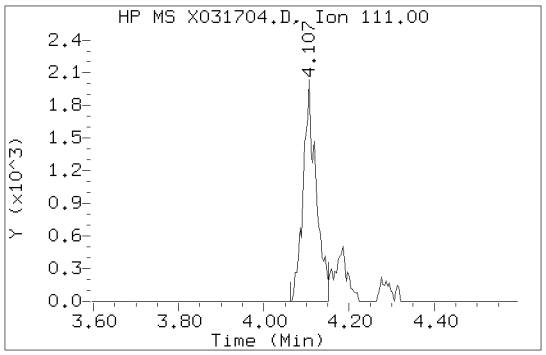

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Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

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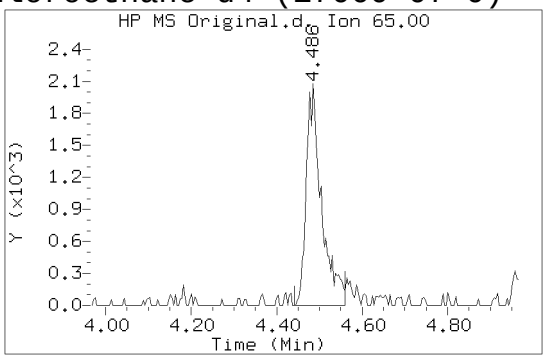

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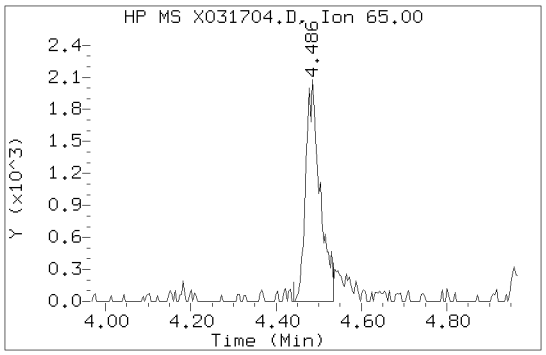

BEFORE

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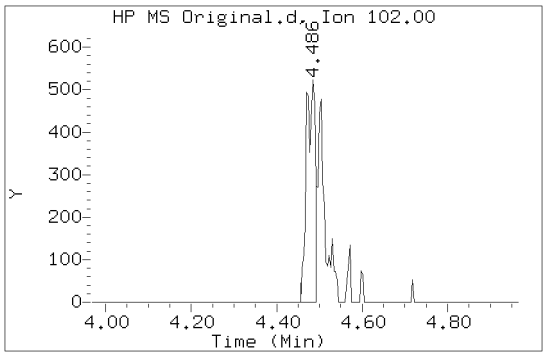

AFTER

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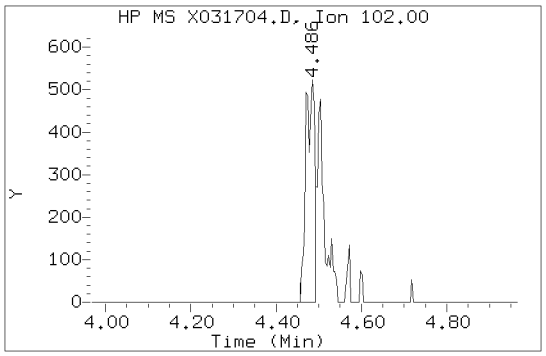

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Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 17-MAR-2023 12:53
Operator : PC Inst ID: voa6.i
Smp Info : VSTD002;VSTD002;1;4;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 12:32 Cal File: X031704.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.178	4.178	(1.000)	364659	50.0000	
2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	5239	2.00000	2.73(M)
3	Chloromethane	50	1.077	1.077	(0.258)	6153	2.00000	1.83
4	Propionitrile	54	3.671	3.671	(0.879)	10016	20.0000	19.49(a)
5	Vinyl Chloride	62	1.145	1.145	(0.274)	5931	2.00000	2.06
6	Bromomethane	94	1.340	1.340	(0.321)	3119	2.00000	1.88
7	Chloroethane	64	1.407	1.407	(0.337)	4308	2.00000	2.11(M)
8	Trichlorofluoromethane	101	1.561	1.561	(0.374)	6844	2.00000	2.00(M)
9	Acrolein	56	1.449	1.449	(0.347)	794	4.00000	6.82(aM)
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	4645	2.00000	2.12(M)
12	Isobutyl Alcohol	43	4.684	4.684	(1.121)	21441	40.0000	43.09(a)
13	Acetonitrile	39	2.202	2.202	(0.527)	6575	20.0000	19.37(a)
14	Allyl Chloride	41	2.206	2.206	(0.528)	17508	2.00000	2.08(aM)
15	Iodomethane	142	2.026	2.026	(0.485)	2950	4.00000	10.35(TM)
16	Acrylonitrile	53	2.566	2.566	(0.614)	5007	4.00000	4.11(M)
17	Methylene Chloride	84	2.303	2.303	(0.551)	8273	2.00000	0.67(M)
18	Methyl tert-butyl ether	73	2.536	2.536	(0.607)	25413	2.00000	2.20
19	Carbon Disulfide	76	2.071	2.071	(0.496)	33469	4.00000	4.15(M)
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	6559	2.00000	2.12
21	Vinyl Acetate	43	3.012	3.012	(0.721)	36411	4.00000	3.91

22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	12119	2.00000	2.16
23 Chloroprene	53	1.775	1.775 (0.425)	2193	2.00000	2.19(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24 2-Butanone	43	3.653	3.653	(0.874)	4883	4.00000	3.73(M)
	25 Methacrylonitrile	41	3.855	3.855	(0.923)	6754	2.00000	2.00(aM)
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	9195	2.00000	1.84(M)
	27 cis-1,2-Dichloroethene	96	3.533	3.533	(0.846)	7938	2.00000	2.12(M)
	28 Chloroform	83	3.908	3.908	(0.935)	13260	2.00000	2.13
	29 Bromochloromethane	128	3.806	3.806	(0.911)	4554	2.00000	2.15
$	30 Dibromofluoromethane	113	4.103	4.103	(0.982)	8112	2.00000	1.65
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	10154	2.00000	2.18
	32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	8943	2.00000	2.09
	33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	9905	2.00000	1.99
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	8608	2.00000	2.10
$	35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.072)	8436	2.00000	3.14(M)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	597443	50.0000	
	37 Benzene	78	4.519	4.519	(0.910)	31278	2.00000	2.12
	38 Trichloroethene	130	5.212	5.212	(1.050)	8163	2.00000	2.06(a)
	39 Bromodichloromethane	83	5.729	5.729	(1.154)	10361	2.00000	1.98(a)
	40 Methyl Methacrylate	41	5.628	5.628	(1.347)	6140	2.00000	1.88(a)
	41 2-Chloroethylvinyl ether	63	6.063	6.063	(1.221)	5896	4.00000	3.71(a)
	42 1,2-Dichloropropane	63	5.441	5.441	(1.096)	7975	2.00000	2.01(aM)
	43 2-Nitropropane	43	5.981	5.981	(1.432)	2524	2.00000	2.20(aH)
	44 Dibromomethane	93	5.553	5.553	(1.119)	5441	2.00000	2.15(a)
	45 4-Methyl-2-Pentanone	43	6.337	6.337	(0.826)	14850	4.00000	4.06(a)
	46 cis-1,3-Dichloropropene	75	6.164	6.164	(1.242)	12938	2.00000	1.96(a)
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	576718	50.0000	
$	48 Toluene-d8	98	6.393	6.393	(0.834)	30210	2.00000	2.11(a)
	49 Ethyl Methacrylate	69	6.719	6.719	(1.353)	8792	2.00000	1.99(aM)
	50 Toluene	91	6.453	6.453	(0.842)	30980	2.00000	2.04(a)
	51 trans-1,3-Dichloropropene	75	6.697	6.697	(1.349)	10834	2.00000	1.98(a)
	52 2-Hexanone	43	7.101	7.101	(0.926)	9933	4.00000	3.96(a)
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	6985	2.00000	2.12(a)
	54 1,3-Dichloropropane	76	6.989	6.989	(0.912)	12902	2.00000	1.97(a)
	55 Dibromochloromethane	129	7.180	7.180	(0.936)	9156	2.00000	1.97(a)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	6397	2.00000	2.10(a)
	57 1,2-Dibromoethane	107	7.266	7.266	(0.948)	8051	2.00000	1.97(a)
	58 1-Chlorohexane	55	7.701	7.701	(1.551)	5763	2.00000	4.16(aM)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	21632	2.00000	2.00(a)
	60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	7846	2.00000	1.88(a)
	61 Ethylbenzene	106	7.802	7.802	(1.018)	10767	2.00000	2.02(a)
	62 m,p-Xylenes	106	7.907	7.907	(1.031)	28543	4.00000	4.26(a)
	63 o-Xylene	106	8.249	8.249	(1.076)	13509	2.00000	2.00(a)
	64 Styrene	104	8.275	8.275	(1.079)	22147	2.00000	1.99(a)
	66 Bromoform	173	8.417	8.417	(1.098)	5755	2.00000	1.79(Ta)
	67 Isopropylbenzene	105	8.563	8.563	(1.117)	33960	2.00000	2.20(a)
	68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	11107	2.00000	2.02(a)
$	69 4-Bromofluorobenzene	95	8.698	8.698	(1.134)	12929	2.00000	2.19(a)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	315380	50.0000	
	71 1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	8328	2.00000	2.01(aM)
	72 trans-1,4-Dichloro-2-butene	53	8.912	8.912	(1.162)	1998	2.00000	2.06(aM)
	73 n-Propylbenzene	91	8.916	8.916	(0.923)	37463	2.00000	2.13(a)
	74 Bromobenzene	156	8.811	8.811	(0.912)	10245	2.00000	2.02(a)
	75 1,3,5-Trimethylbenzene	105	9.070	9.070	(0.939)	28741	2.00000	2.11(a)
	76 2-Chlorotoluene	91	8.976	8.976	(0.929)	25156	2.00000	2.13(aM)

77	4-Chlorotoluene	91	9.081	9.081 (0.940)	27602	2.00000	2.07(a)
78	tert-Butylbenzene	119	9.336	9.336 (0.966)	23670	2.00000	2.18(aM)

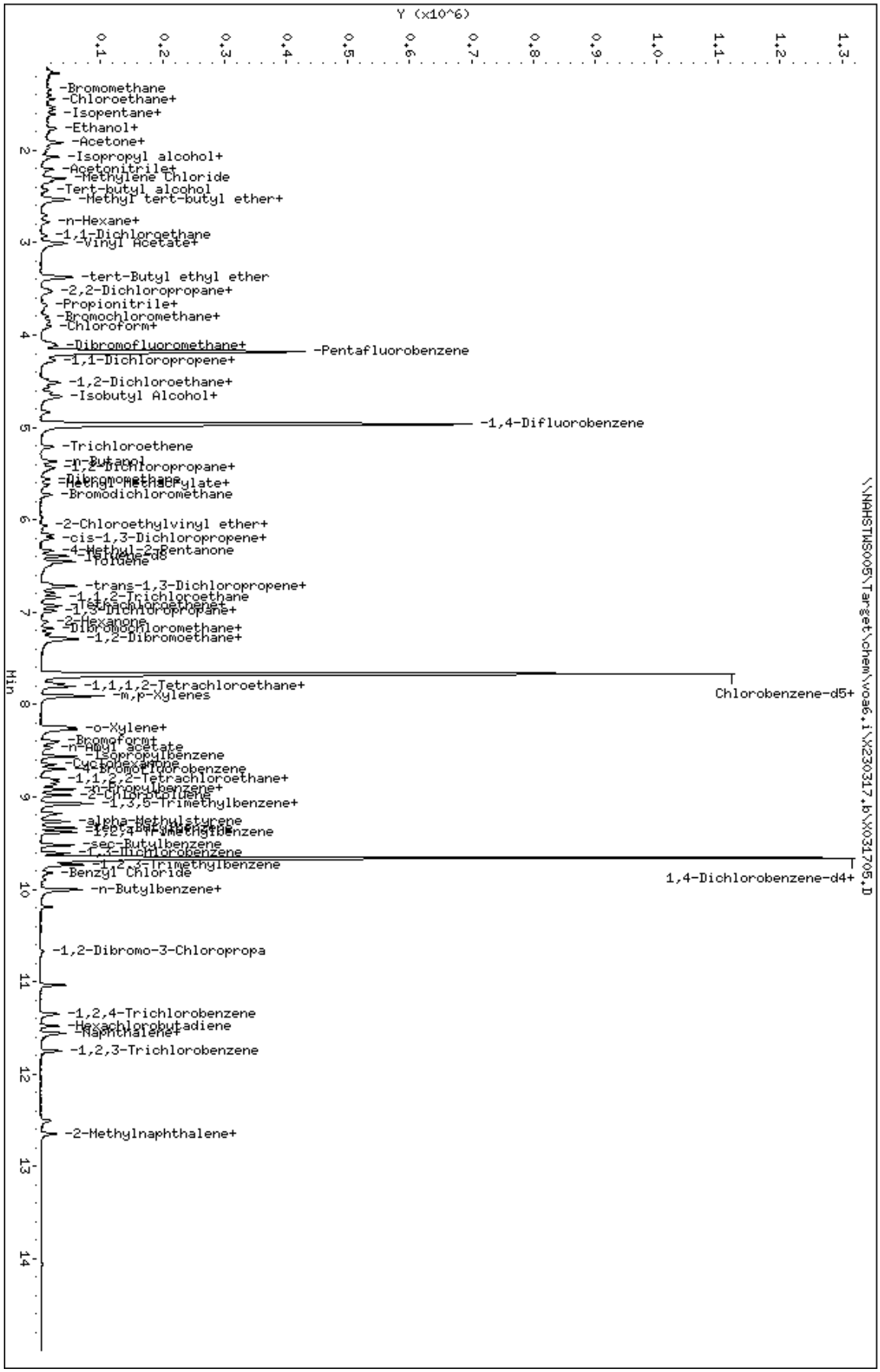
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.384	9.384	(0.971)	28719	2.00000	2.05(aM)
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	32067	2.00000	2.18(aM)
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	27213	2.00000	2.07(aM)
83	1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	18159	2.00000	2.07(a)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	19879	2.00000	2.10(a)
86	Benzyl Chloride	91	9.823	9.823	(1.281)	13841	2.00000	3.01(a)
87	n-Butylbenzene	91	10.003	10.003	(1.035)	21203	2.00000	2.00(aM)
88	1,2-Dichlorobenzene	146	9.999	9.999	(1.035)	17795	2.00000	2.02(aM)
89	1,2-Dibromo-3-Chloropropane	155	10.681	10.681	(1.106)	1655	2.00000	3.06(a)
90	1,2,4-Trichlorobenzene	180	11.352	11.352	(1.175)	12885	2.00000	2.00(a)
91	Hexachlorobutadiene	225	11.476	11.476	(1.188)	5380	2.00000	3.98(aM)
92	Naphthalene	128	11.559	11.559	(1.196)	27823	2.00000	1.80(a)
93	1,2,3-Trichlorobenzene	180	11.754	11.754	(1.216)	12110	2.00000	1.97(a)
146	Methyl acetate	43	2.243	2.243	(0.537)	4084	2.00000	1.94(a)
138	Freon TF	101	1.917	1.917	(0.459)	4071	2.00000	3.24(aM)
141	Cyclohexane	56	4.118	4.118	(0.986)	7493	2.00000	3.68(aM)
142	Tetrahydrofuran	42	3.863	3.863	(0.925)	2463	4.00000	4.13(aM)
147	Methylcyclohexane	55	5.407	5.407	(1.089)	16726	2.00000	2.02(aM)
135	1,4-Dioxane	88	5.610	5.610	(1.343)	1966	40.0000	40.63(M)
132	n-Butanol	56	5.366	5.366	(1.284)	3165	40.0000	64.20(aM)
131	Methyl Acrylate	55	3.731	3.731	(0.893)	7555	2.00000	2.00(aM)
133	Ethyl Acrylate	55	5.407	5.407	(1.294)	15497	2.00000	1.94(M)
136	n-Hexane	57	2.772	2.772	(0.664)	5204	2.00000	2.77(aM)
139	Diethyl ether	59	1.756	1.756	(0.420)	4986	2.00000	2.04(aM)
148	Tert-butyl alcohol	59	2.434	2.434	(0.583)	16456	40.0000	43.09
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	8264	40.0000	40.49
156	Diisopropyl ether	45	3.004	3.004	(0.719)	24334	2.00000	2.14(Ta)
160	2-Methylnaphthalene	142	12.649	12.649	(1.309)	13999	2.00000	1.83
166	1,2,3-Trimethylbenzene	105	9.733	9.733	(1.007)	31975	2.00000	2.11(a)
167	Ethanol	45	1.696	1.696	(0.406)	1323	40.0000	40.45
172	tert-Butyl formate	59	4.624	4.624	(1.107)	11320	4.00000	3.80(aM)
173	3,3-Dimethyl-1-butanol	57	7.293	7.293	(0.951)	18400	40.0000	41.40(M)
174	tert-Amyl methyl ether	73	4.669	4.669	(1.118)	26677	2.00000	2.04(aM)
175	tert-Butyl ethyl ether	59	3.372	3.372	(0.807)	24578	2.00000	2.07(aM)
176	tert-Amyl alcohol	59	4.624	4.624	(1.107)	12773	40.0000	40.93(M)
151	4-Methyl-2-pentanol	45	6.719	6.719	(1.353)	32931	40.0000	37.76(M)
180	1-Methylnaphthalene	142	12.649	12.649	(1.309)	13999	2.00000	(a)
140	1,3-Butadiene	54	1.167	1.167	(0.280)	5210	2.00000	2.10(a)
152	Amyl alcohol	42	6.933	6.933	(0.904)	3699	40.0000	35.58(M)
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	9922	2.00000	2.19(M)
159	Propylene oxide	43	1.801	1.801	(0.431)	847	4.00000	3.72(a)
161	3-Methyl-1-butanol	55	6.959	6.959	(0.908)	3723	40.0000	36.98(M)
162	Butyl acrylate	55	8.267	8.267	(1.078)	15986	2.00000	1.87(a)
182	Epichlorohydrin	57	6.108	6.108	(1.230)	2850	8.00000	8.36
M 94	1,2-Dichloroethylene (total)	96				14497	4.00000	(a)
130	Ethyl Acetate	43	3.679	3.679	(0.881)	7453	2.00000	1.97(aM)
134	Cyclohexanone	55	8.646	8.646	(0.895)	7426	40.0000	39.64(aM)
185	Isoprene	39	1.771	1.771	(0.424)	1305	2.00000	1.86(aM)
188	Isopropyl acetate	43	4.684	4.684	(0.943)	21441	2.00000	1.98(a)
187	n-Amyl acetate	43	8.466	8.466	(1.104)	13808	2.00000	1.92(aM)
189	n-Butyl acetate	43	7.229	7.229	(0.943)	11156	2.00000	1.82(aM)
150	Allyl alcohol	57	2.772	2.772	(0.664)	4552	40.0000	48.82(M)

194 Acetaldehyde	44	1.209	1.209 (0.289)	3379	8.00000	14.77(M)
195 Methyl Amyl Ketone	43	8.395	8.395 (1.095)	17942	2.00000	1.96(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
200 Dimethyl Disulfide	94	6.202	6.202	(0.809)	12235	2.00000	1.62(a)
202 Isobutylene	41	1.246	1.246	(0.298)	607	2.00000	2.00(aM)
205 2-Ethylhexyl Acrylate	55	11.562	11.562	(1.197)	8380	2.00000	1.79(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Date : 17-MAR-2023 12:53
Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

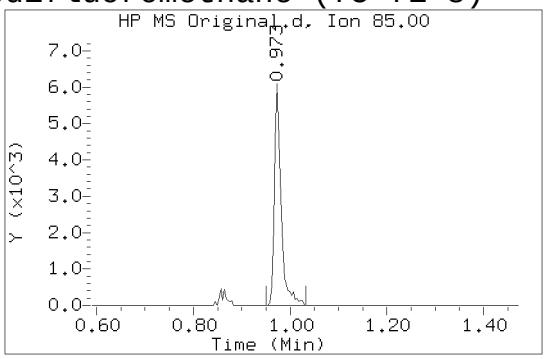
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

Reason Code:

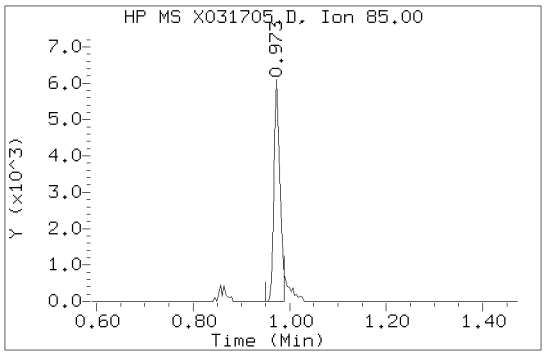
BEFORE

MASS
85
AREA
5866
HEIGHT
6097
30-Mar-2023
12:33
linh
pham



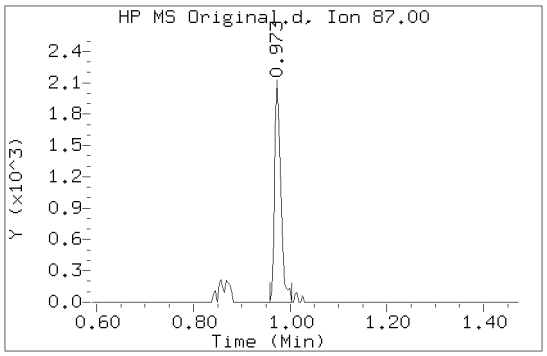
AFTER

MASS
85
AREA
5239
HEIGHT
6097
30-Mar-2023
12:41
linh
pham



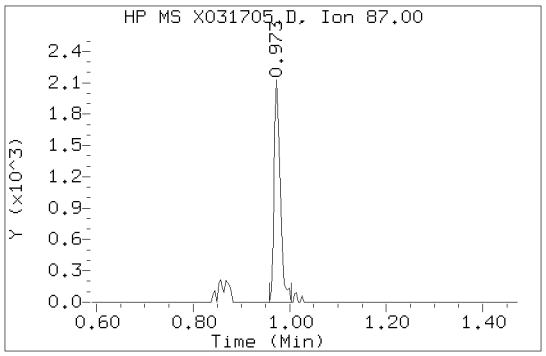
BEFORE

MASS
87
AREA
1883
HEIGHT
2127
30-Mar-2023
12:33
linh
pham



AFTER

MASS
87
AREA
1883
HEIGHT
2127
30-Mar-2023
12:41
linh
pham

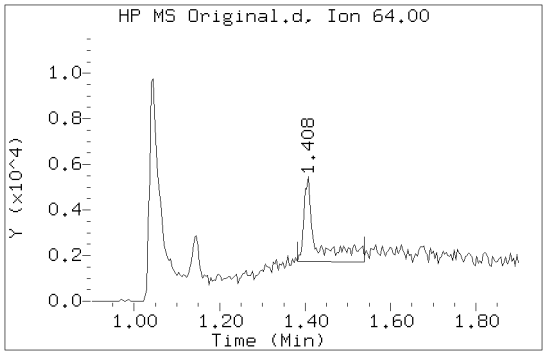


Chloroethane (75-00-3)

Reason Code:

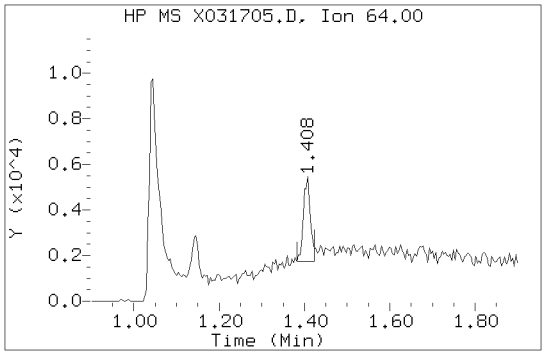
BEFORE

MASS
64
AREA
7910
HEIGHT
3723
30-Mar-2023
12:33
linh
pham



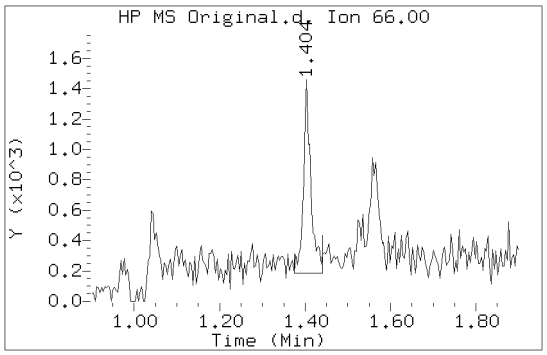
AFTER

MASS
64
AREA
4308
HEIGHT
3722
30-Mar-2023
12:41
linh
pham



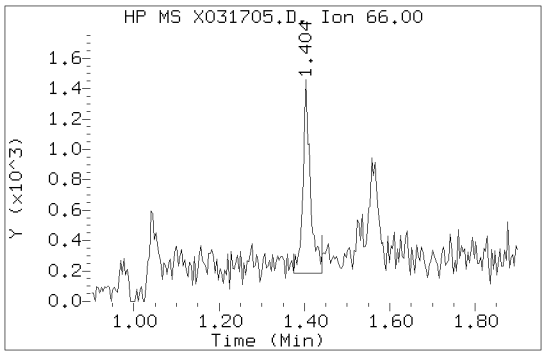
BEFORE

MASS
66
AREA
1586
HEIGHT
1274
30-Mar-2023
12:33
linh
pham



AFTER

MASS
66
AREA
1586
HEIGHT
1274
30-Mar-2023
12:41
linh
pham



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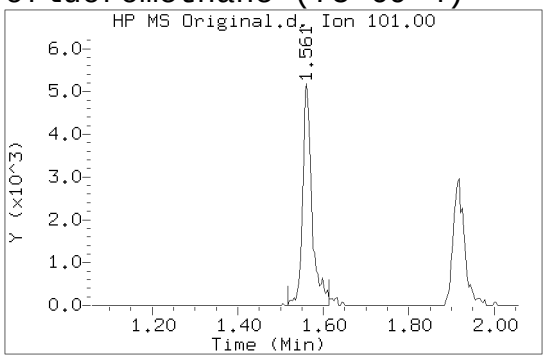
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Trichlorofluoromethane (75-69-4)

Reason Code:

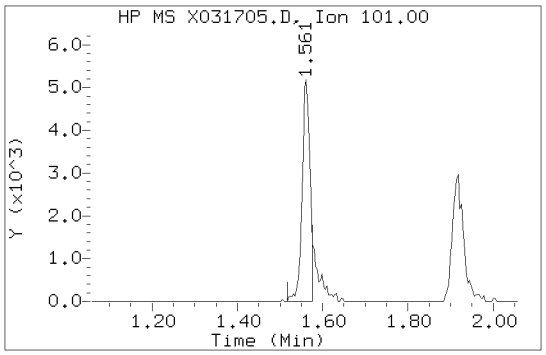
BEFORE

MASS
101
AREA
8073
HEIGHT
5182
30-Mar-2023
12:33
linh
pham



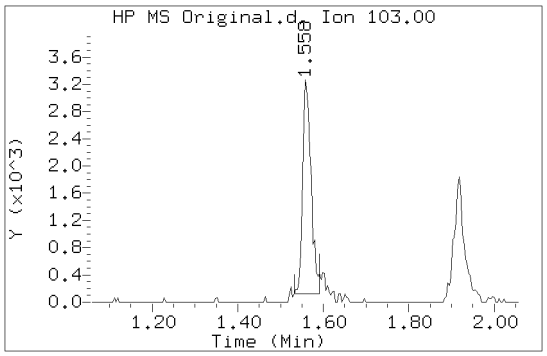
AFTER

MASS
101
AREA
6844
HEIGHT
5182
30-Mar-2023
12:41
linh
pham



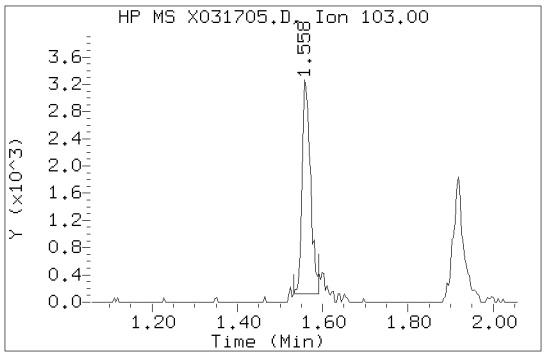
BEFORE

MASS
103
AREA
4439
HEIGHT
3140
30-Mar-2023
12:33
linh
pham



AFTER

MASS
103
AREA
4439
HEIGHT
3140
30-Mar-2023
12:41
linh
pham

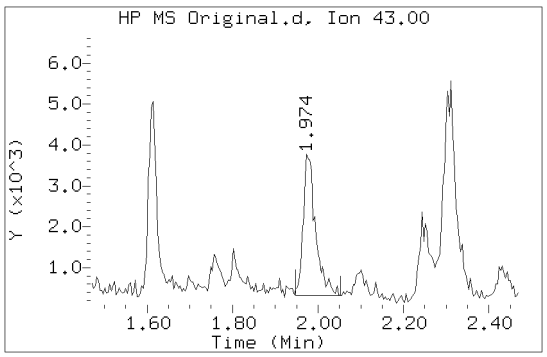


Acetone (67-64-1)

Reason Code:

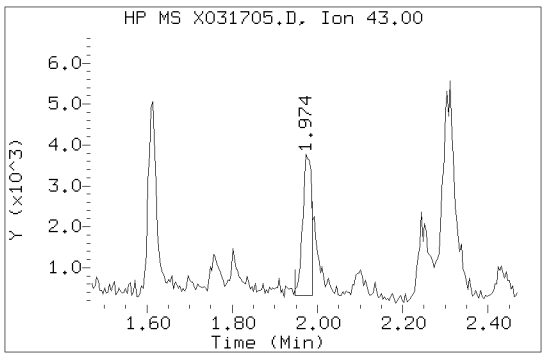
BEFORE

MASS
43
AREA
7079
HEIGHT
3457
30-Mar-2023
12:33
linh
pham



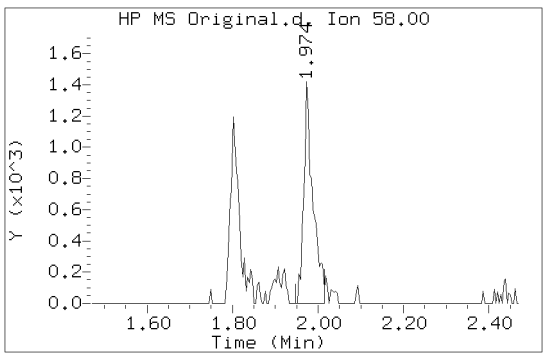
AFTER

MASS
43
AREA
5122
HEIGHT
3457
30-Mar-2023
12:41
linh
pham



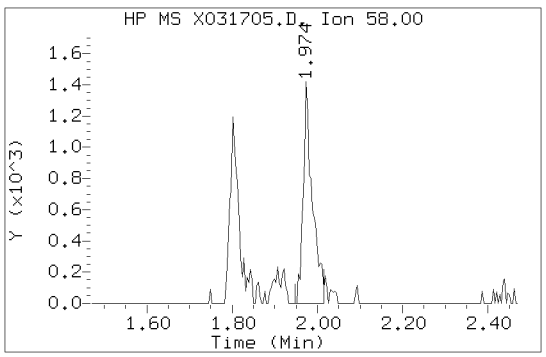
BEFORE

MASS
58
AREA
2146
HEIGHT
1420
30-Mar-2023
12:33
linh
pham



AFTER

MASS
58
AREA
2146
HEIGHT
1420
30-Mar-2023
12:41
linh
pham



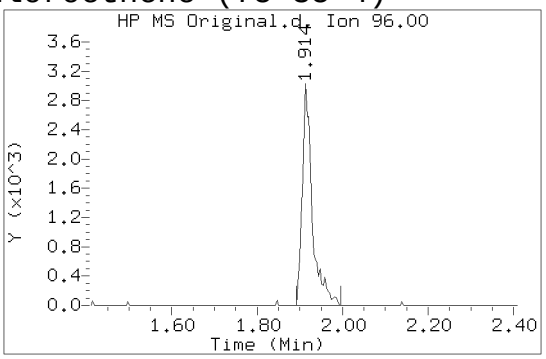
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

1,1-Dichloroethene (75-35-4)

Reason Code:

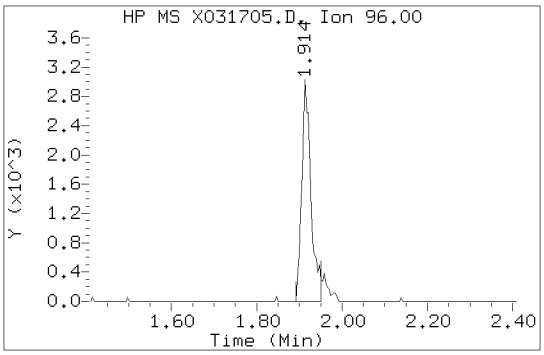
BEFORE

MASS
96
AREA
5031
HEIGHT
3028
30-Mar-2023
12:33
linh
pham



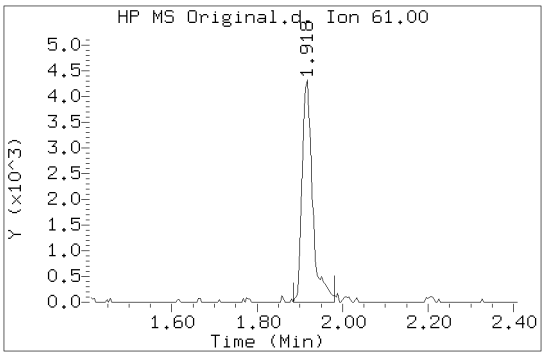
AFTER

MASS
96
AREA
4645
HEIGHT
3028
30-Mar-2023
12:41
linh
pham



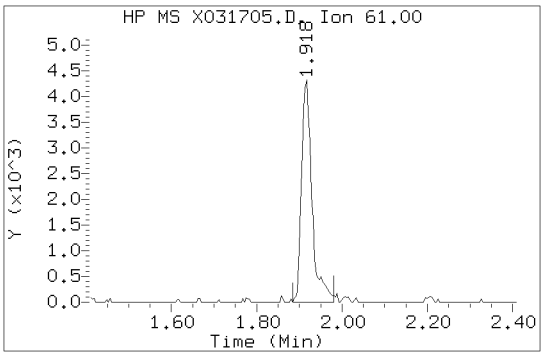
BEFORE

MASS
61
AREA
7573
HEIGHT
4320
30-Mar-2023
12:33
linh
pham



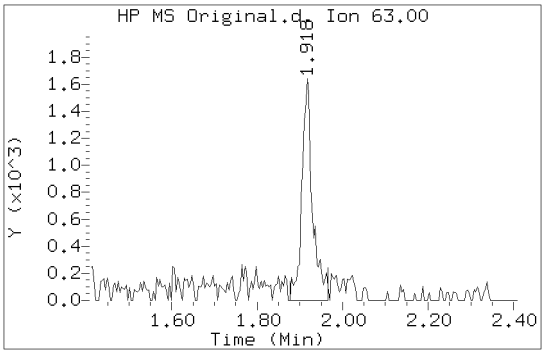
AFTER

MASS
61
AREA
7573
HEIGHT
4320
30-Mar-2023
12:41
linh
pham



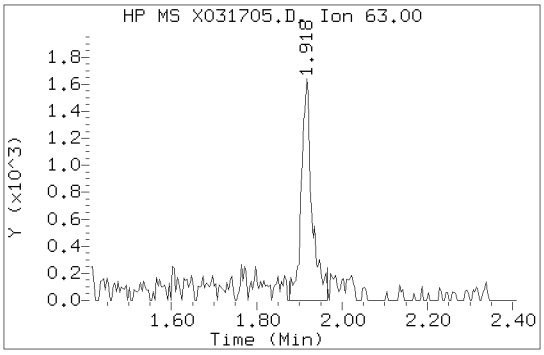
BEFORE

MASS
63
AREA
2901
HEIGHT
1641
30-Mar-2023
12:33
linh
pham



AFTER

MASS
63
AREA
2901
HEIGHT
1641
30-Mar-2023
12:41
linh
pham

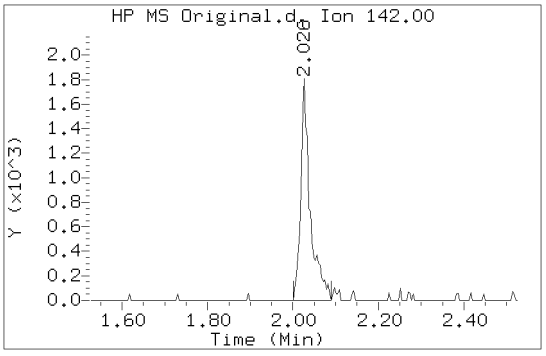


Iodomethane (74-88-4)

Reason Code:

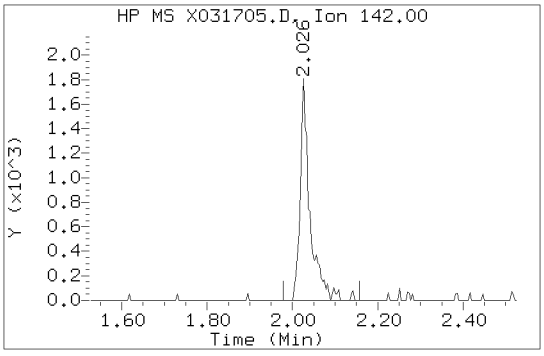
BEFORE

MASS
142
AREA
2838
HEIGHT
1808
30-Mar-2023
12:33
linh
pham



AFTER

MASS
142
AREA
2950
HEIGHT
1808
30-Mar-2023
12:41
linh
pham



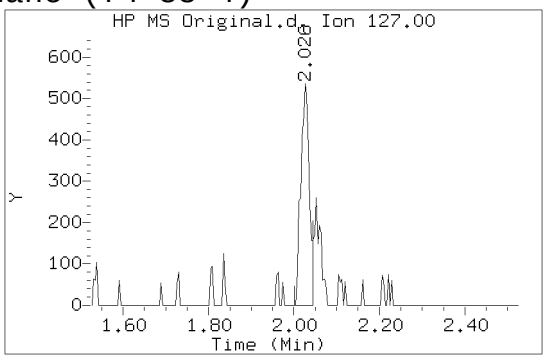
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Iodomethane (74-88-4)

Reason Code:

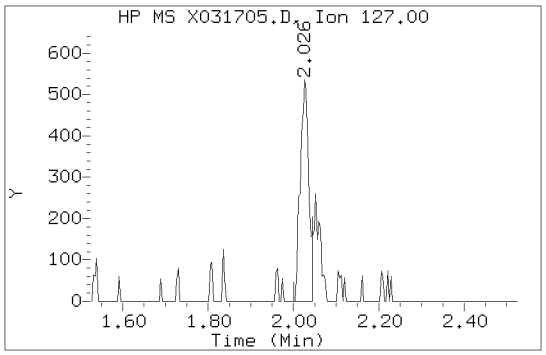
BEFORE

MASS
127
AREA
774
HEIGHT
536
30-Mar-2023
12:33
linh
pham



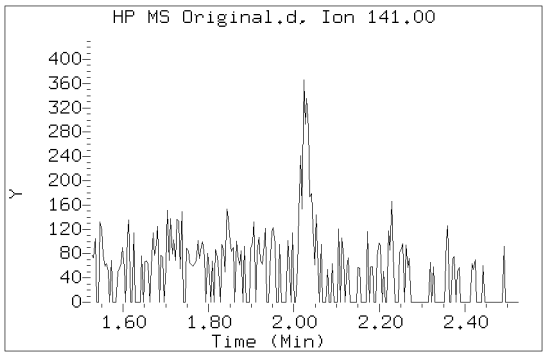
AFTER

MASS
127
AREA
774
HEIGHT
536
30-Mar-2023
12:41
linh
pham



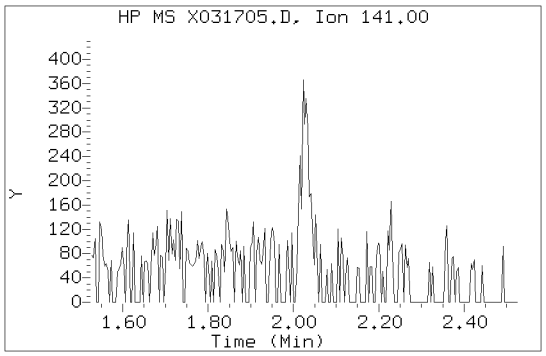
BEFORE

MASS
141
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
141
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

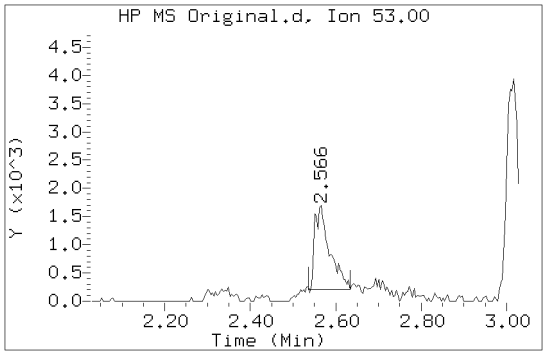


Acrylonitrile (107-13-1)

Reason Code:

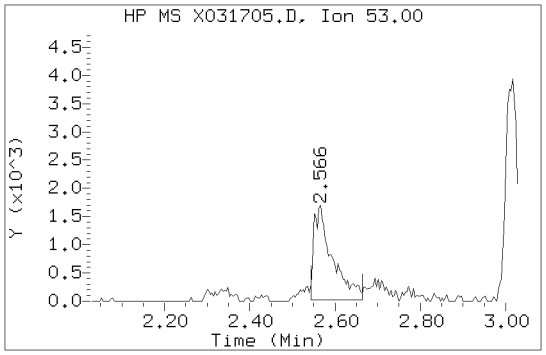
BEFORE

MASS
53
AREA
3622
HEIGHT
1489
30-Mar-2023
12:33
linh
pham



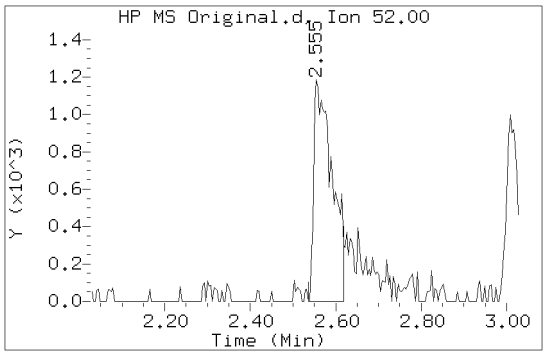
AFTER

MASS
53
AREA
5007
HEIGHT
1665
30-Mar-2023
12:41
linh
pham



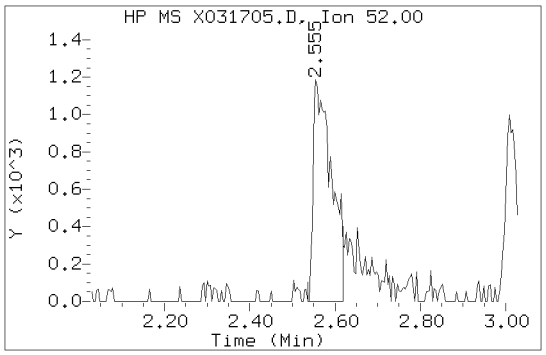
BEFORE

MASS
52
AREA
3529
HEIGHT
1186
30-Mar-2023
12:33
linh
pham



AFTER

MASS
52
AREA
3529
HEIGHT
1186
30-Mar-2023
12:41
linh
pham



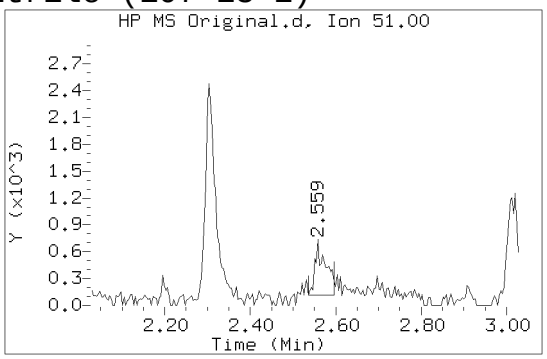
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Acrylonitrile (107-13-1)

Reason Code:

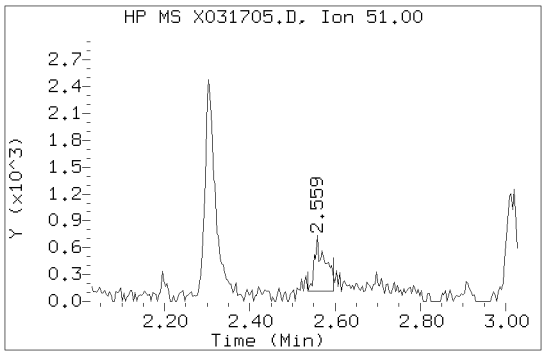
BEFORE

MASS
51
AREA
1061
HEIGHT
622
30-Mar-2023
12:33
linh
pham



AFTER

MASS
51
AREA
1061
HEIGHT
622
30-Mar-2023
12:41
linh
pham

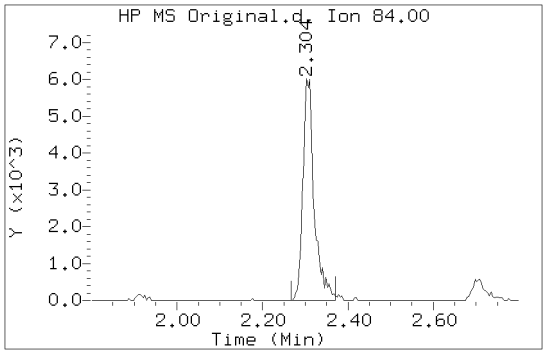


Methylene Chloride (75-09-2)

Reason Code:

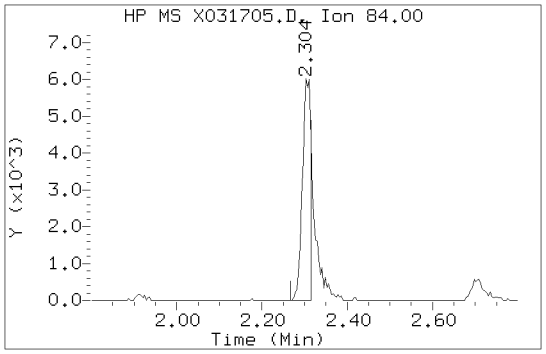
BEFORE

MASS
84
AREA
11285
HEIGHT
6022
30-Mar-2023
12:33
linh
pham



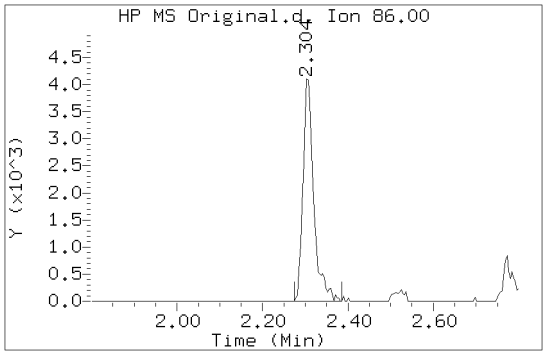
AFTER

MASS
84
AREA
8273
HEIGHT
6022
30-Mar-2023
12:41
linh
pham



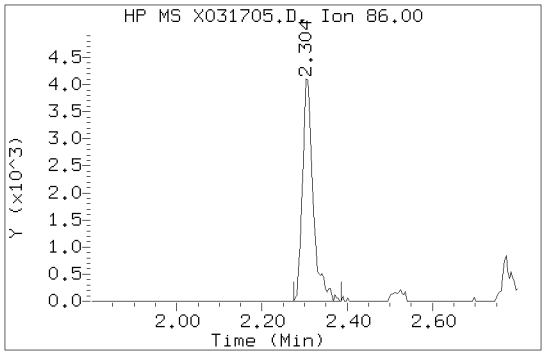
BEFORE

MASS
86
AREA
7326
HEIGHT
4107
30-Mar-2023
12:33
linh
pham



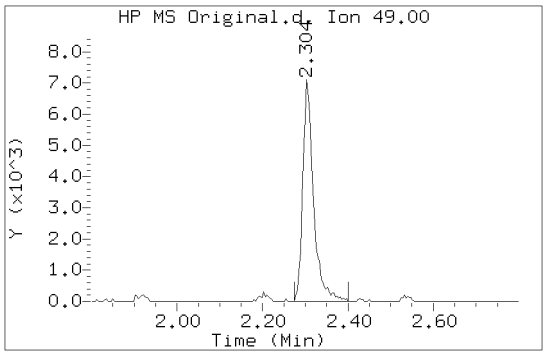
AFTER

MASS
86
AREA
7326
HEIGHT
4107
30-Mar-2023
12:41
linh
pham



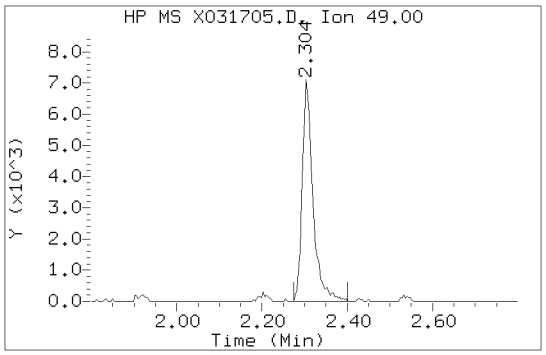
BEFORE

MASS
49
AREA
12668
HEIGHT
7105
30-Mar-2023
12:33
linh
pham



AFTER

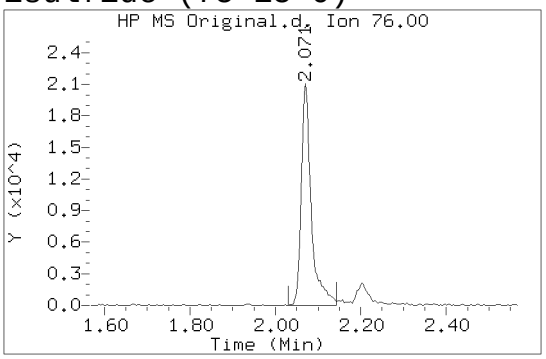
MASS
49
AREA
12668
HEIGHT
7105
30-Mar-2023
12:41
linh
pham



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

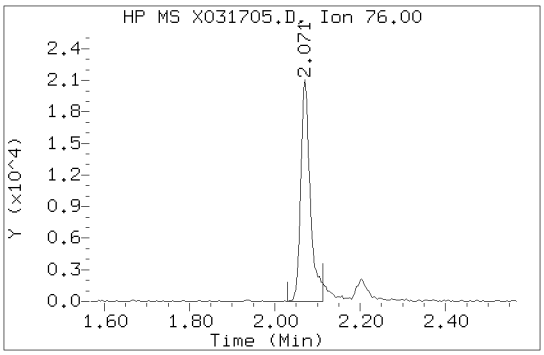
Carbon Disulfide (75-15-0)

BEFORE
MASS
76
AREA
35108
HEIGHT
21056
30-Mar-2023
12:33
linh
pham

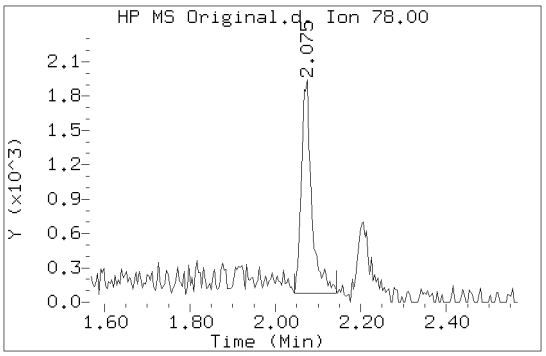


Reason Code:

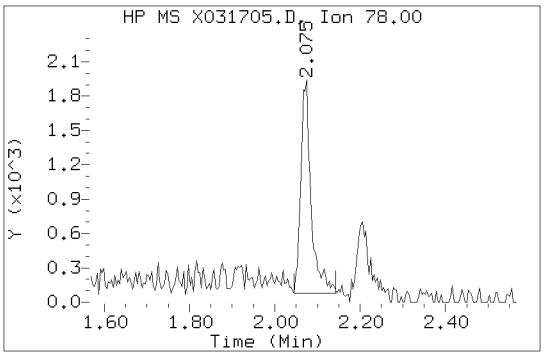
AFTER
MASS
76
AREA
33469
HEIGHT
21056
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
78
AREA
3221
HEIGHT
1865
30-Mar-2023
12:33
linh
pham

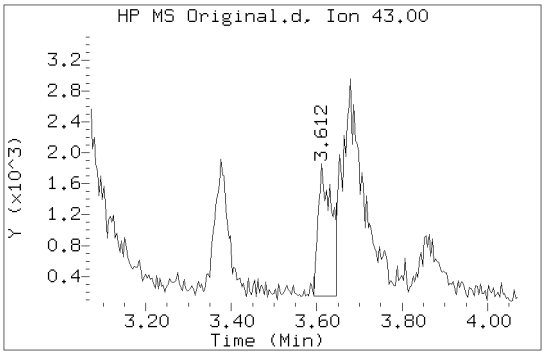


AFTER
MASS
78
AREA
3221
HEIGHT
1865
30-Mar-2023
12:41
linh
pham



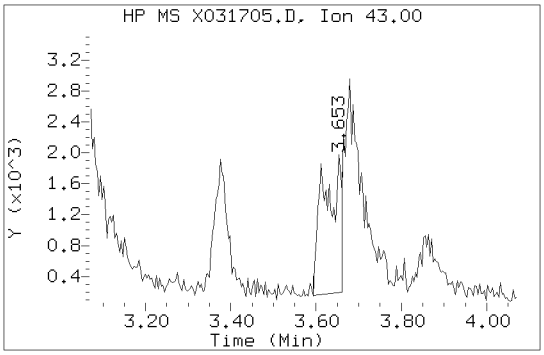
2-Butanone (78-93-3)

BEFORE
MASS
43
AREA
3635
HEIGHT
1711
30-Mar-2023
12:33
linh
pham

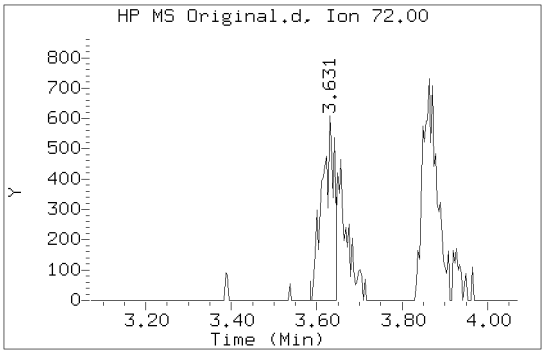


Reason Code:

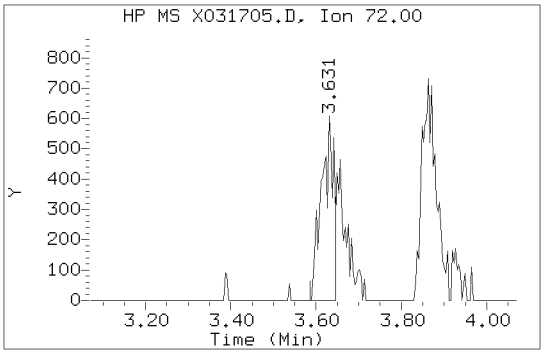
AFTER
MASS
43
AREA
4883
HEIGHT
1780
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
72
AREA
1194
HEIGHT
609
30-Mar-2023
12:33
linh
pham



AFTER
MASS
72
AREA
1194
HEIGHT
609
30-Mar-2023
12:41
linh
pham



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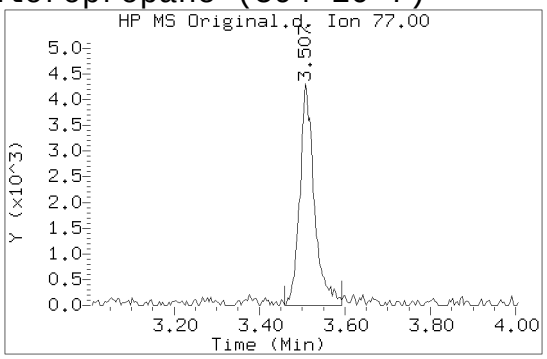
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

2,2-Dichloropropane (594-20-7)

Reason Code:

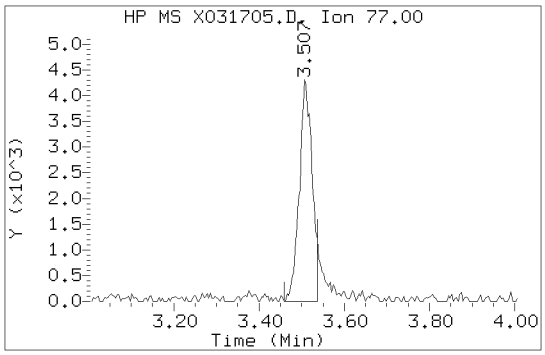
BEFORE

MASS
77
AREA
10396
HEIGHT
4310
30-Mar-2023
12:33
linh
pham



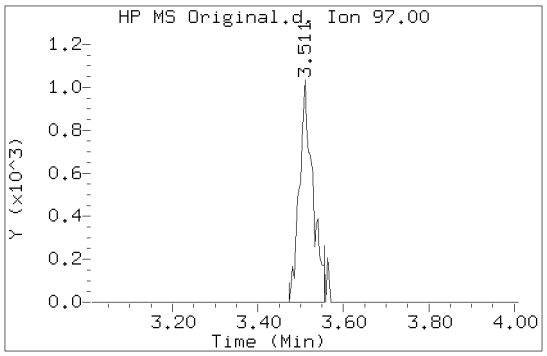
AFTER

MASS
77
AREA
9195
HEIGHT
4310
30-Mar-2023
12:41
linh
pham



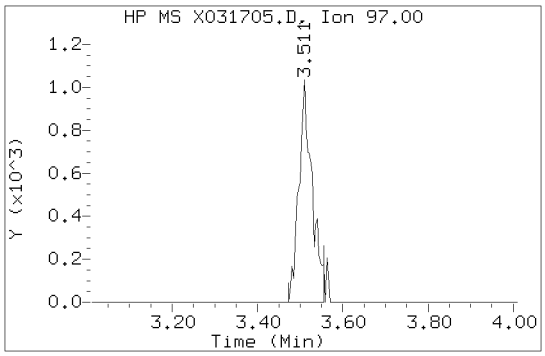
BEFORE

MASS
97
AREA
2276
HEIGHT
1035
30-Mar-2023
12:33
linh
pham



AFTER

MASS
97
AREA
2276
HEIGHT
1035
30-Mar-2023
12:41
linh
pham

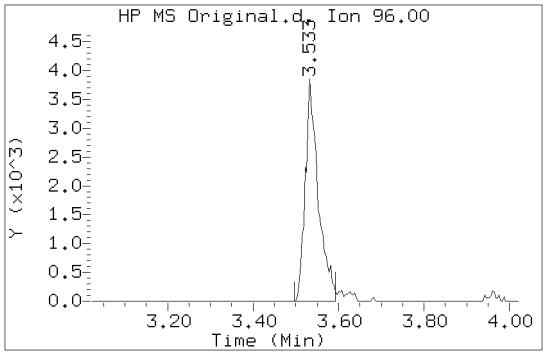


cis-1,2-Dichloroethene (156-59-2)

Reason Code:

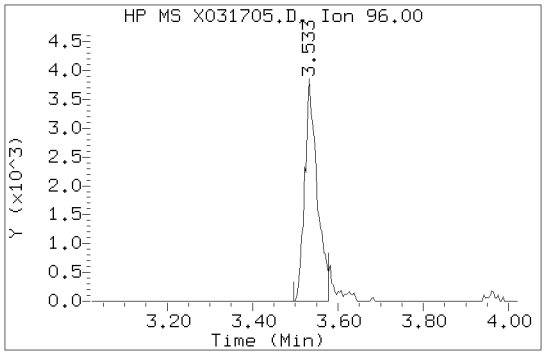
BEFORE

MASS
96
AREA
8249
HEIGHT
3854
30-Mar-2023
12:33
linh
pham



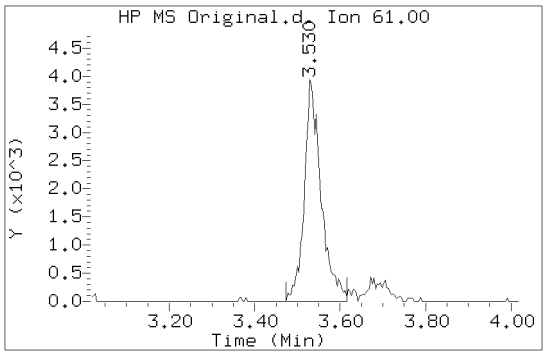
AFTER

MASS
96
AREA
7938
HEIGHT
3854
30-Mar-2023
12:41
linh
pham



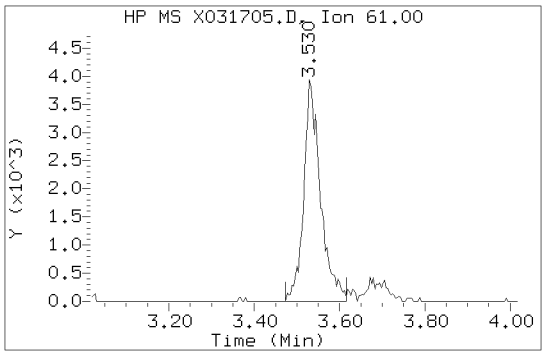
BEFORE

MASS
61
AREA
10862
HEIGHT
3938
30-Mar-2023
12:33
linh
pham



AFTER

MASS
61
AREA
10862
HEIGHT
3938
30-Mar-2023
12:41
linh
pham



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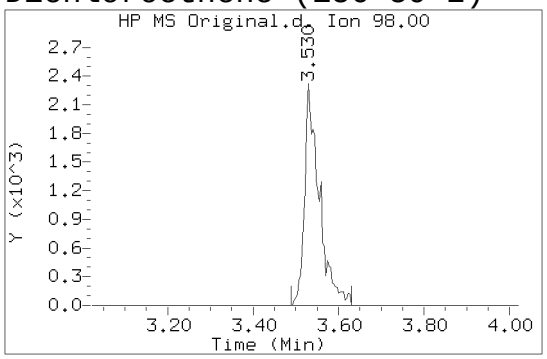
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

cis-1,2-Dichloroethene (156-59-2)

BEFORE

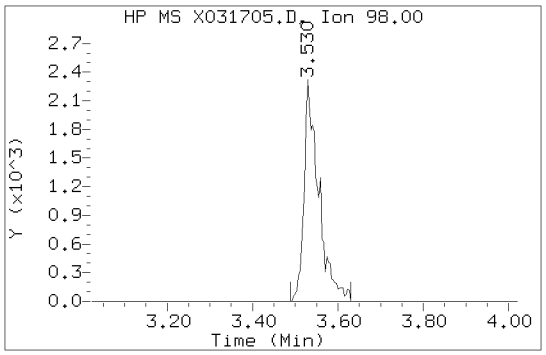
MASS
98
AREA
5559
HEIGHT
2321
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

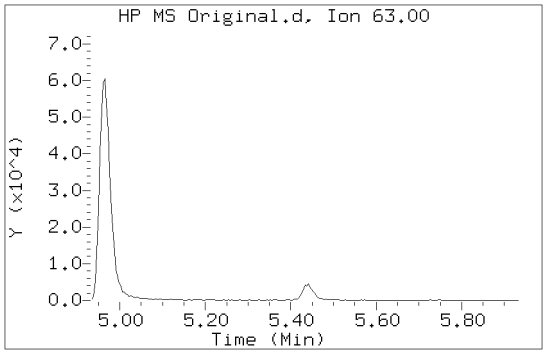
MASS
98
AREA
5559
HEIGHT
2321
30-Mar-2023
12:41
linh
pham



1,2-Dichloropropane (78-87-5)

BEFORE

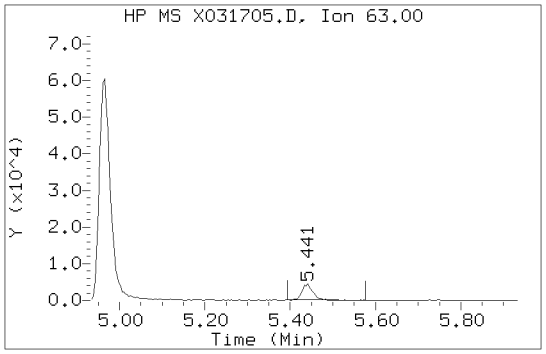
MASS
63
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

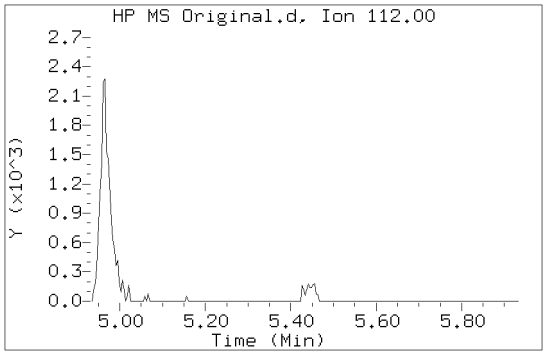
AFTER

MASS
63
AREA
7975
HEIGHT
4520
30-Mar-2023
12:41
linh
pham



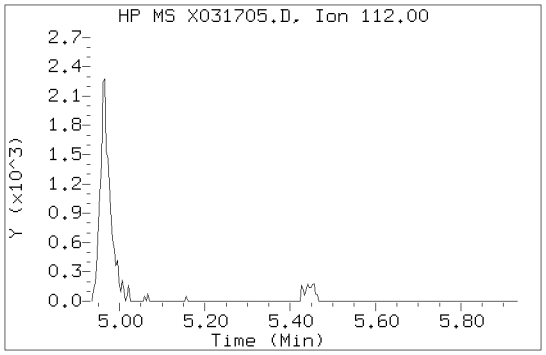
BEFORE

MASS
112
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

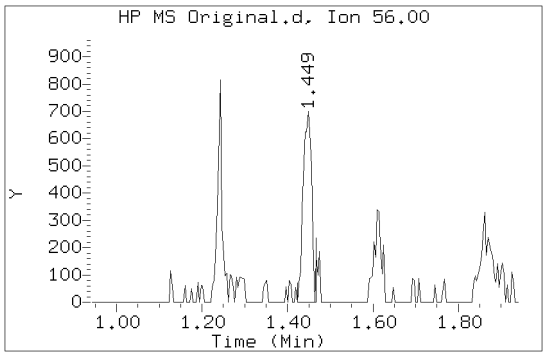
MASS
112
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



Acrolein (107-02-8)

BEFORE

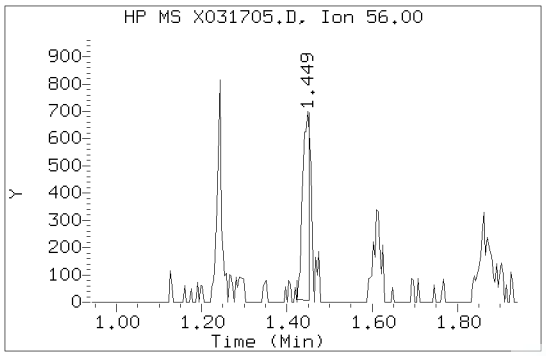
MASS
56
AREA
1011
HEIGHT
699
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

MASS
56
AREA
794
HEIGHT
691
30-Mar-2023
12:41
linh
pham



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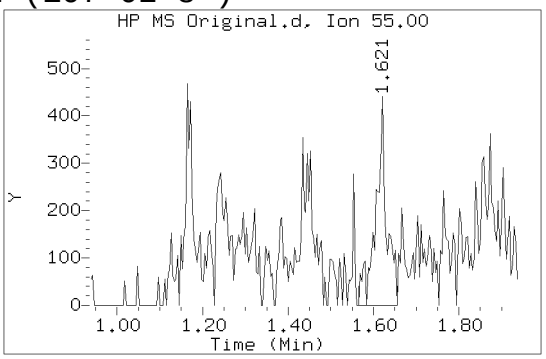
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Acrolein (107-02-8)

Reason Code:

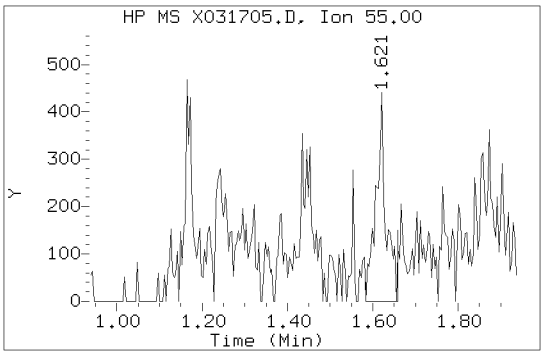
BEFORE

MASS
55
AREA
771
HEIGHT
441
30-Mar-2023
12:33
linh
pham



AFTER

MASS
55
AREA
728
HEIGHT
441
30-Mar-2023
12:41
linh
pham

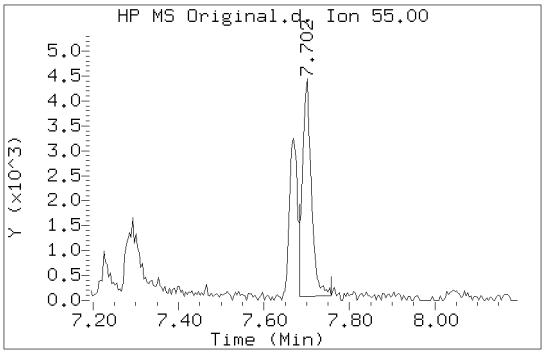


1-Chlorohexane (544-10-5)

Reason Code:

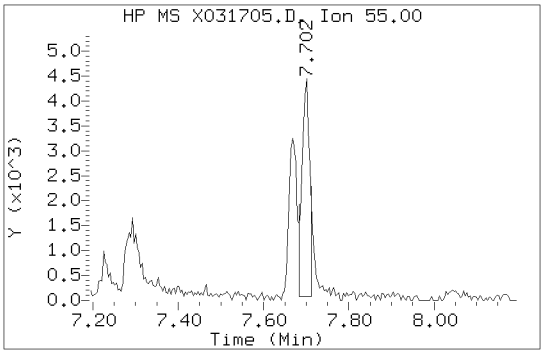
BEFORE

MASS
55
AREA
6571
HEIGHT
4369
30-Mar-2023
12:33
linh
pham



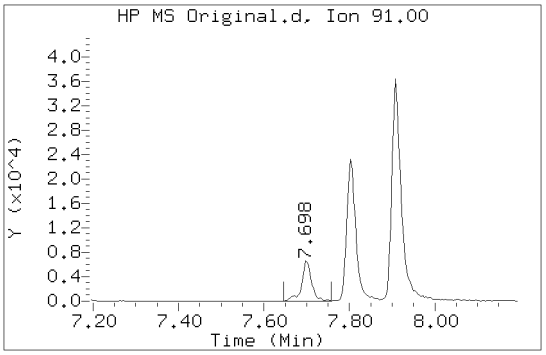
AFTER

MASS
55
AREA
5763
HEIGHT
4369
30-Mar-2023
12:41
linh
pham



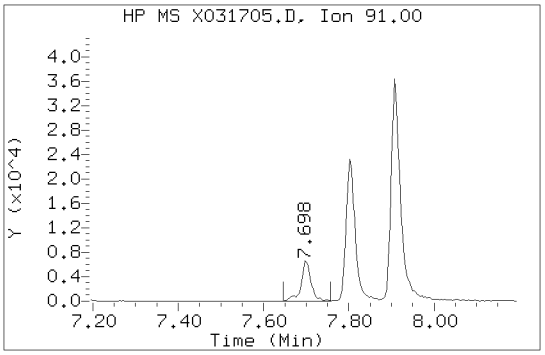
BEFORE

MASS
91
AREA
10956
HEIGHT
6612
30-Mar-2023
12:33
linh
pham



AFTER

MASS
91
AREA
10956
HEIGHT
6612
30-Mar-2023
12:41
linh
pham

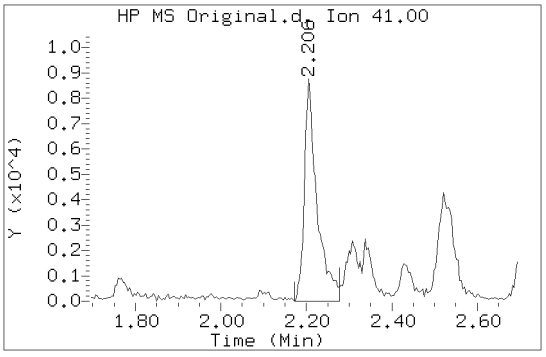


Allyl Chloride (107-05-1)

Reason Code:

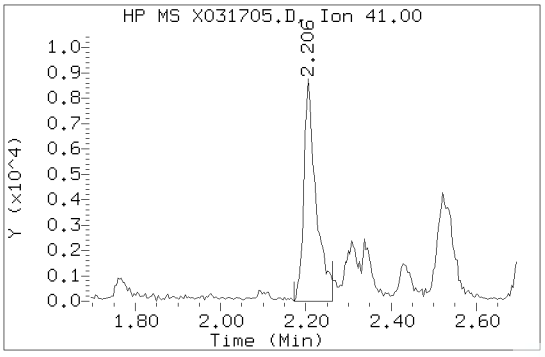
BEFORE

MASS
41
AREA
18122
HEIGHT
8761
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
17508
HEIGHT
8761
30-Mar-2023
12:41
linh
pham



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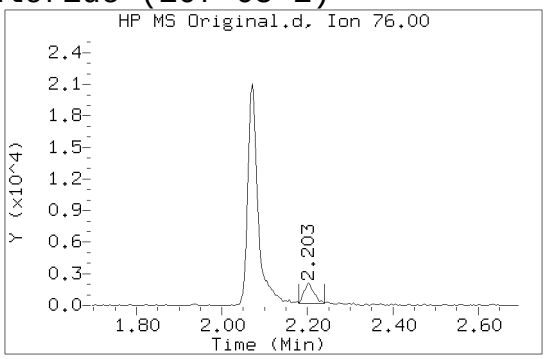
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Allyl Chloride (107-05-1)

BEFORE

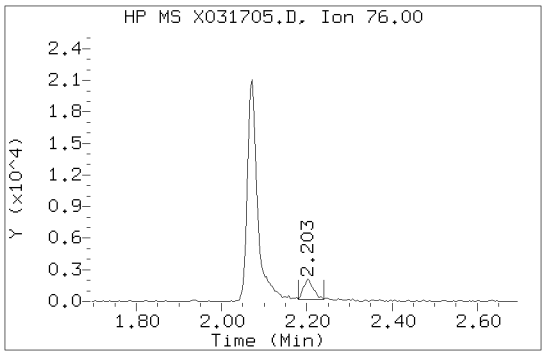
MASS
76
AREA
3083
HEIGHT
1935
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

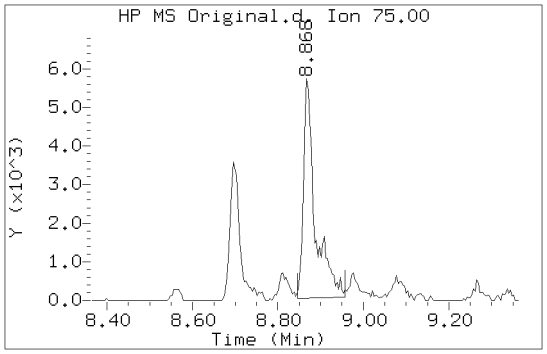
MASS
76
AREA
3083
HEIGHT
1935
30-Mar-2023
12:41
linh
pham



1,2,3-Trichloropropane (96-18-4)

BEFORE

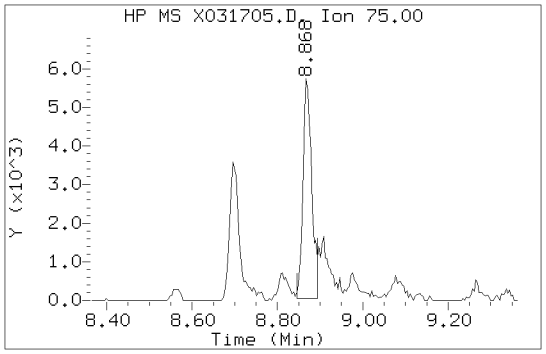
MASS
75
AREA
11042
HEIGHT
5692
30-Mar-2023
12:33
linh
pham



Reason Code:

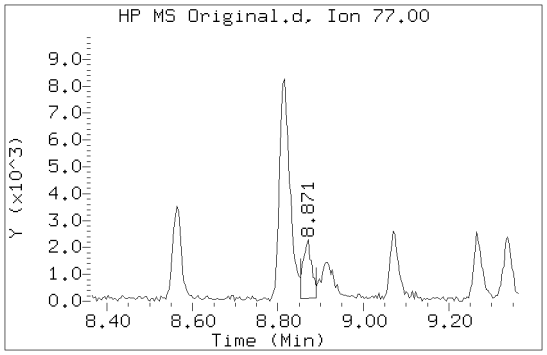
AFTER

MASS
75
AREA
8328
HEIGHT
5692
30-Mar-2023
12:41
linh
pham



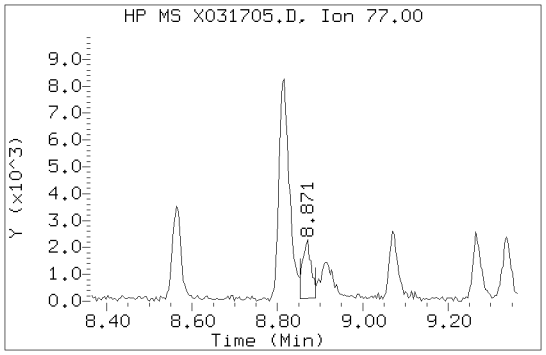
BEFORE

MASS
77
AREA
3185
HEIGHT
2179
30-Mar-2023
12:33
linh
pham



AFTER

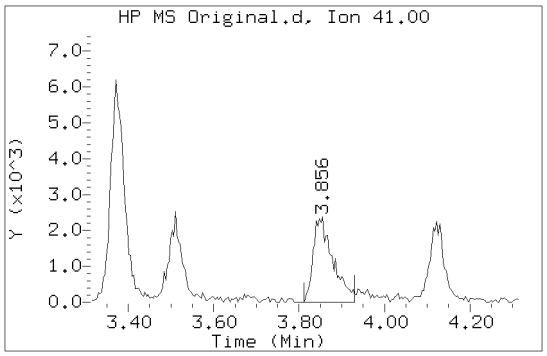
MASS
77
AREA
3185
HEIGHT
2179
30-Mar-2023
12:41
linh
pham



Methacrylonitrile (126-98-7)

BEFORE

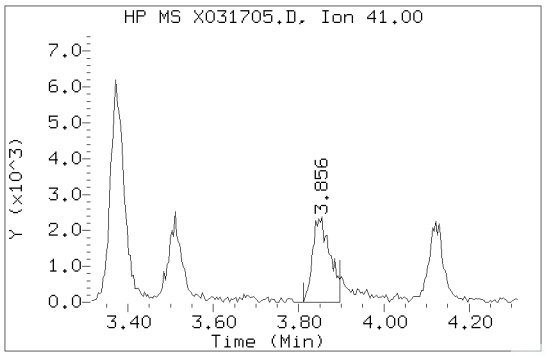
MASS
41
AREA
7606
HEIGHT
2390
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

MASS
41
AREA
6754
HEIGHT
2390
30-Mar-2023
12:41
linh
pham



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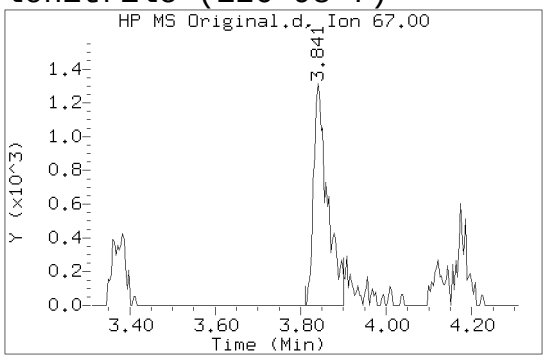
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

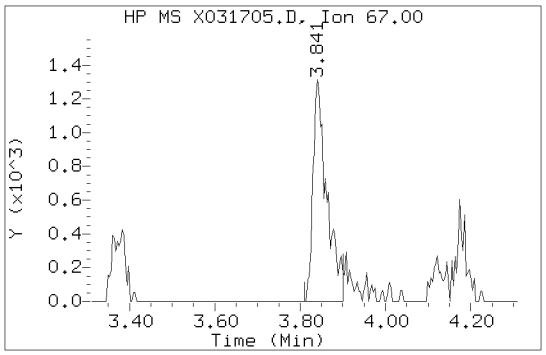
Methacrylonitrile (126-98-7)

Reason Code:

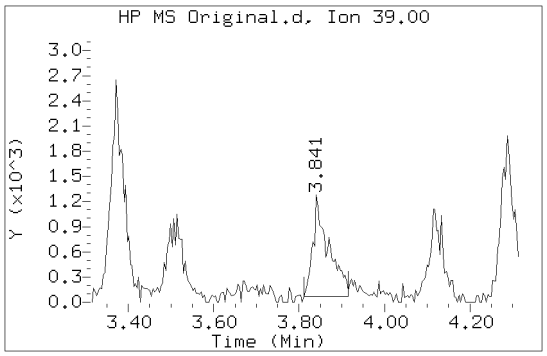
BEFORE
MASS
67
AREA
2973
HEIGHT
1314
30-Mar-2023
12:33
linh
pham



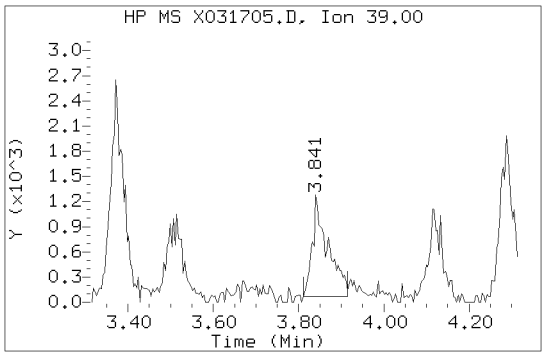
AFTER
MASS
67
AREA
2973
HEIGHT
1314
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
39
AREA
3073
HEIGHT
1215
30-Mar-2023
12:33
linh
pham



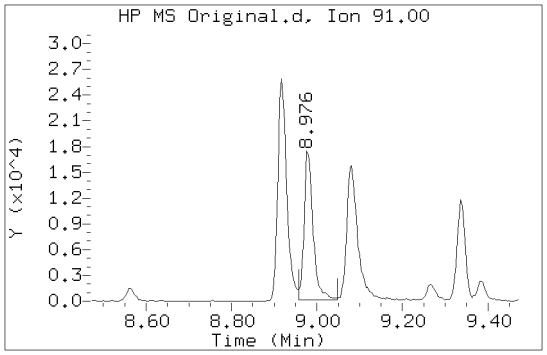
AFTER
MASS
39
AREA
3073
HEIGHT
1215
30-Mar-2023
12:41
linh
pham



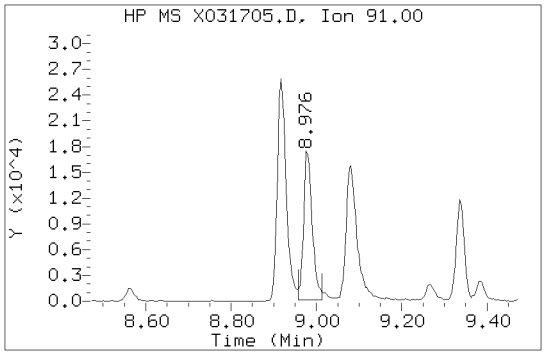
2-Chlorotoluene (95-49-8)

Reason Code:

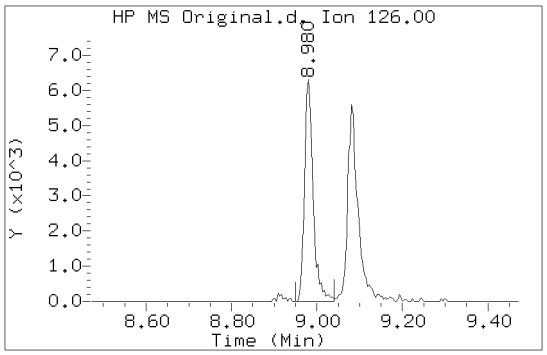
BEFORE
MASS
91
AREA
26022
HEIGHT
17363
30-Mar-2023
12:33
linh
pham



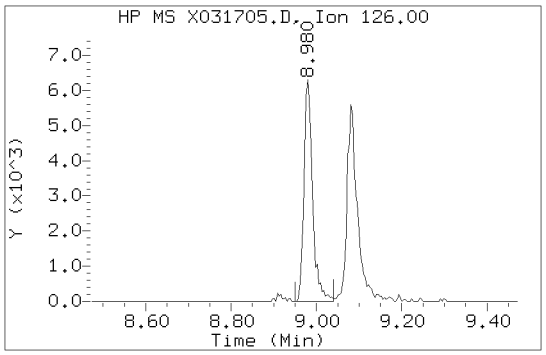
AFTER
MASS
91
AREA
25156
HEIGHT
17363
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
126
AREA
9054
HEIGHT
6306
30-Mar-2023
12:33
linh
pham



AFTER
MASS
126
AREA
9054
HEIGHT
6306
30-Mar-2023
12:41
linh
pham



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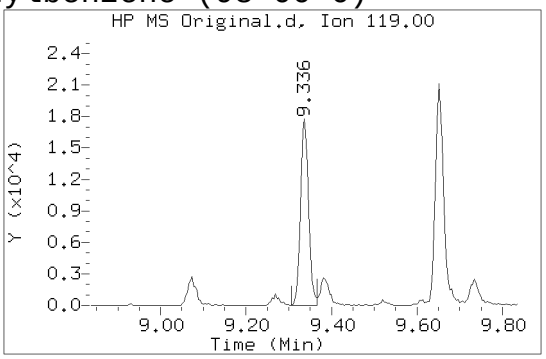
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

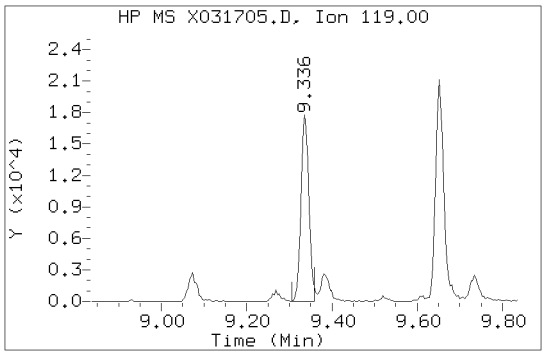
tert-Butylbenzene (98-06-6)

Reason Code:

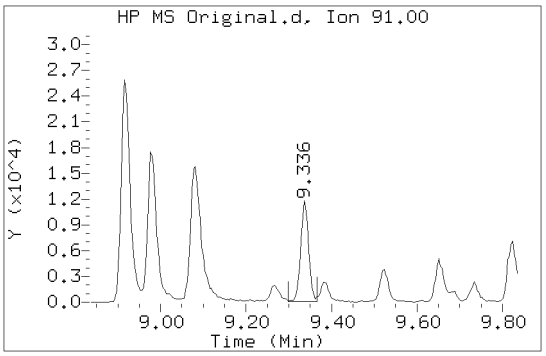
BEFORE
MASS
119
AREA
24014
HEIGHT
17752
30-Mar-2023
12:33
linh
pham



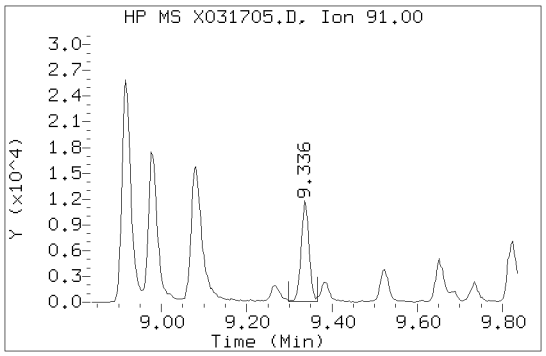
AFTER
MASS
119
AREA
23670
HEIGHT
17752
30-Mar-2023
12:41
linh
pham



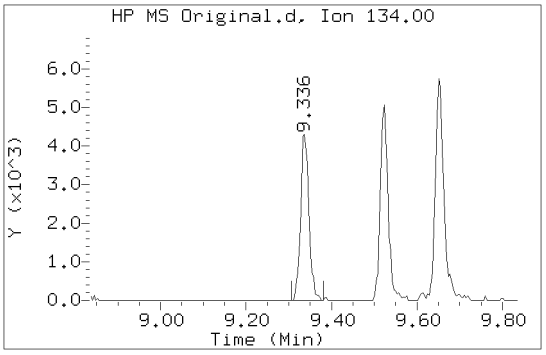
BEFORE
MASS
91
AREA
15633
HEIGHT
11777
30-Mar-2023
12:33
linh
pham



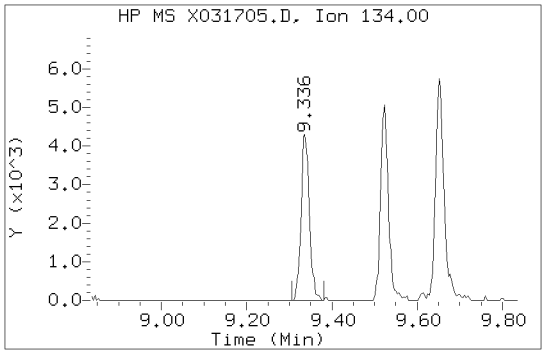
AFTER
MASS
91
AREA
15633
HEIGHT
11777
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
134
AREA
6015
HEIGHT
4311
30-Mar-2023
12:33
linh
pham



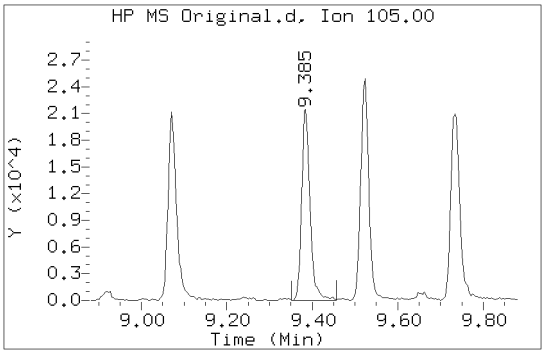
AFTER
MASS
134
AREA
6015
HEIGHT
4311
30-Mar-2023
12:41
linh
pham



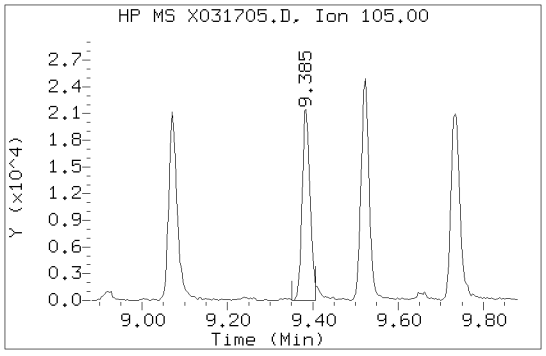
1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

BEFORE
MASS
105
AREA
30217
HEIGHT
21448
30-Mar-2023
12:33
linh
pham



AFTER
MASS
105
AREA
28719
HEIGHT
21448
30-Mar-2023
12:41
linh
pham



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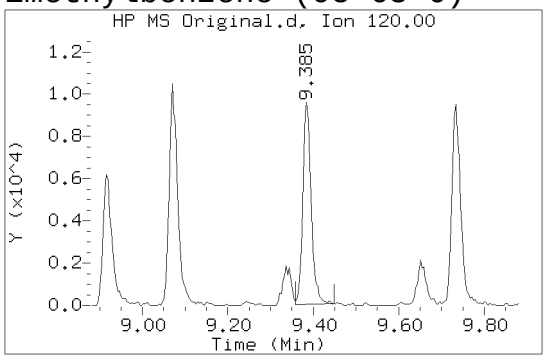
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

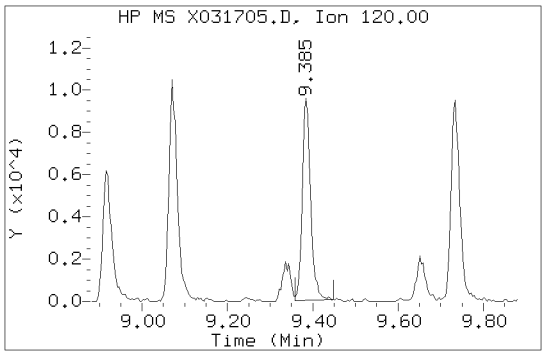
BEFORE

MASS
120
AREA
13357
HEIGHT
9568
30-Mar-2023
12:33
linh
pham



AFTER

MASS
120
AREA
13357
HEIGHT
9568
30-Mar-2023
12:41
linh
pham

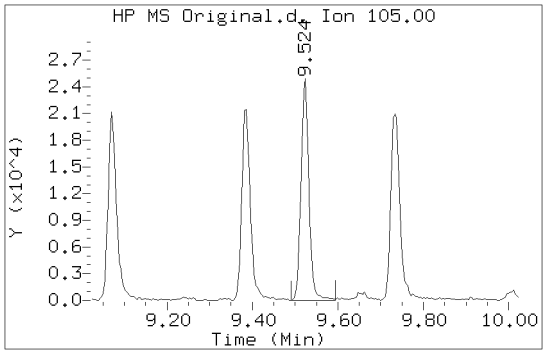


sec-Butylbenzene (135-98-8)

Reason Code:

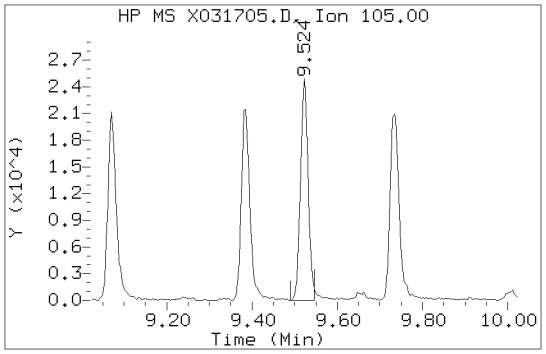
BEFORE

MASS
105
AREA
33044
HEIGHT
24912
30-Mar-2023
12:33
linh
pham



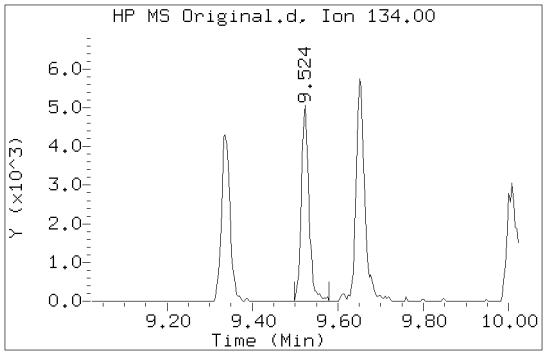
AFTER

MASS
105
AREA
32067
HEIGHT
24912
30-Mar-2023
12:41
linh
pham



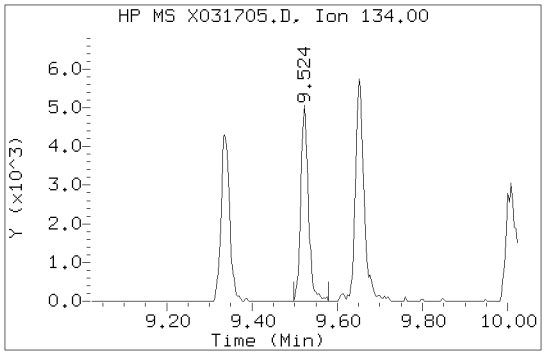
BEFORE

MASS
134
AREA
6514
HEIGHT
5072
30-Mar-2023
12:33
linh
pham



AFTER

MASS
134
AREA
6514
HEIGHT
5072
30-Mar-2023
12:41
linh
pham

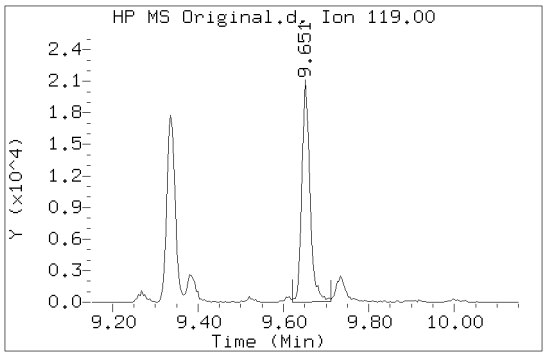


p-Isopropyltoluene (99-87-6)

Reason Code:

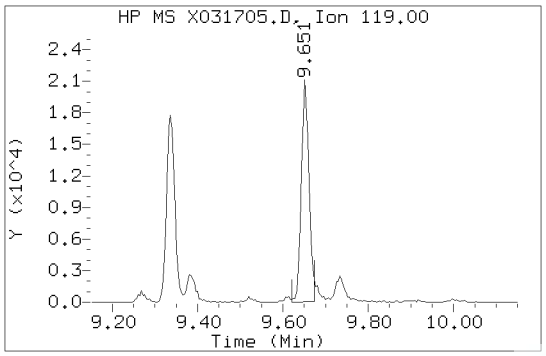
BEFORE

MASS
119
AREA
28649
HEIGHT
21087
30-Mar-2023
12:33
linh
pham



AFTER

MASS
119
AREA
27213
HEIGHT
21087
30-Mar-2023
12:41
linh
pham



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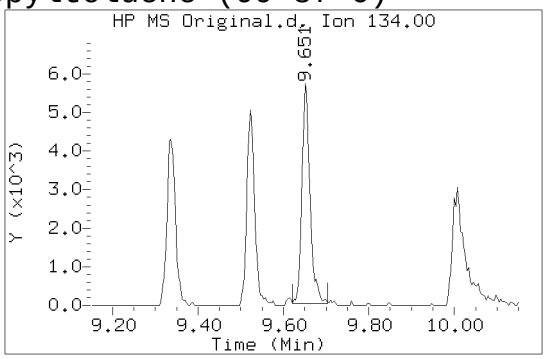
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

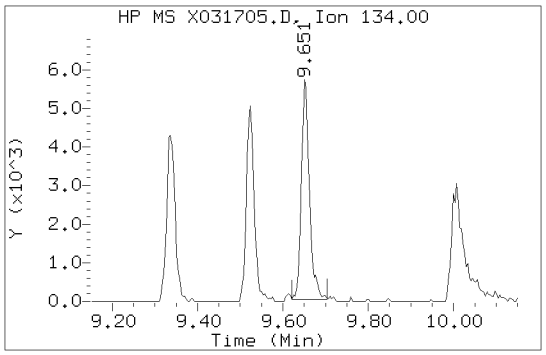
p-Isopropyltoluene (99-87-6)

Reason Code:

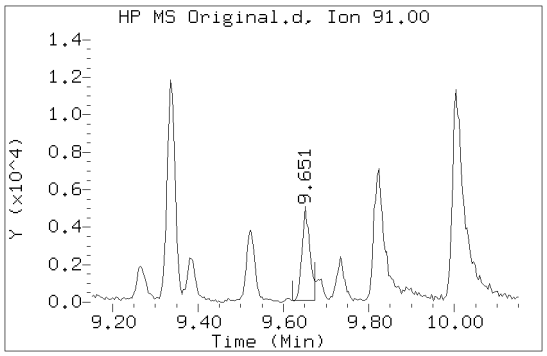
BEFORE
MASS
134
AREA
7684
HEIGHT
5691
30-Mar-2023
12:33
linh
pham



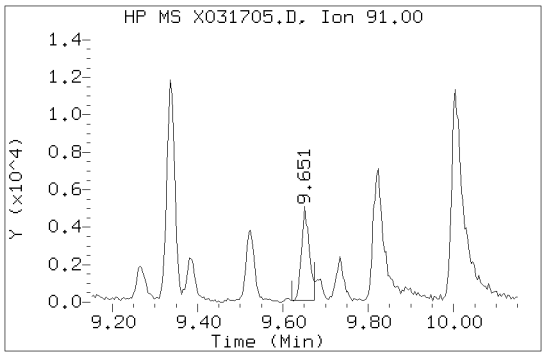
AFTER
MASS
134
AREA
7684
HEIGHT
5691
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
91
AREA
6592
HEIGHT
5018
30-Mar-2023
12:33
linh
pham



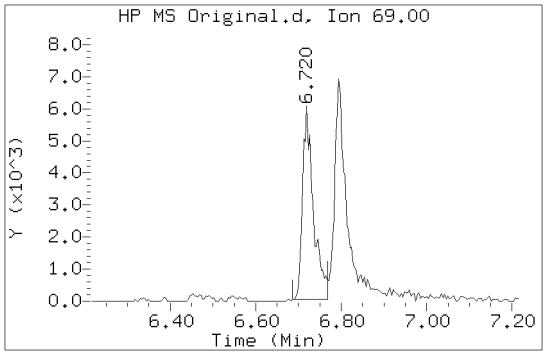
AFTER
MASS
91
AREA
6592
HEIGHT
5018
30-Mar-2023
12:41
linh
pham



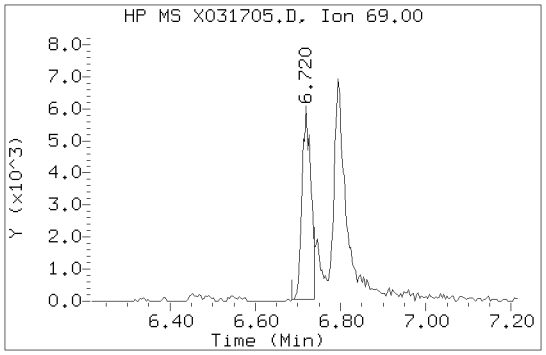
Ethyl Methacrylate (97-63-2)

Reason Code:

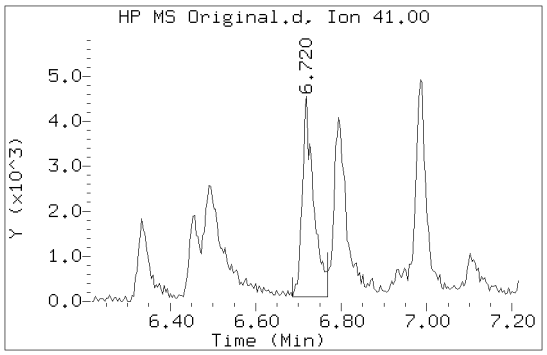
BEFORE
MASS
69
AREA
10752
HEIGHT
6028
30-Mar-2023
12:33
linh
pham



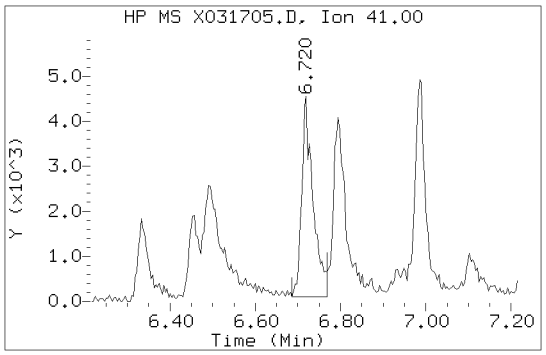
AFTER
MASS
69
AREA
8792
HEIGHT
6028
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
41
AREA
8401
HEIGHT
4455
30-Mar-2023
12:33
linh
pham



AFTER
MASS
41
AREA
8401
HEIGHT
4455
30-Mar-2023
12:41
linh
pham



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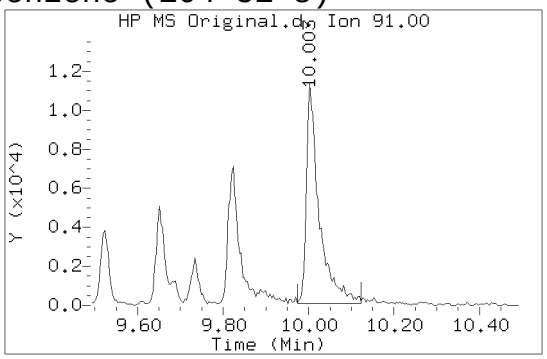
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

n-Butylbenzene (104-51-8)

Reason Code:

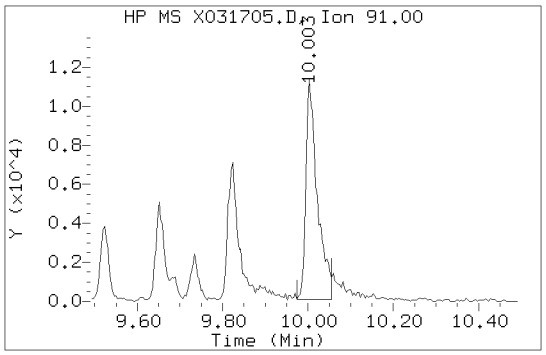
BEFORE

MASS
91
AREA
23510
HEIGHT
11276
30-Mar-2023
12:33
linh
pham



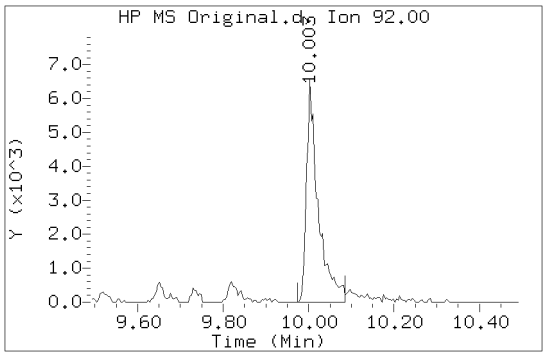
AFTER

MASS
91
AREA
21203
HEIGHT
11276
30-Mar-2023
12:41
linh
pham



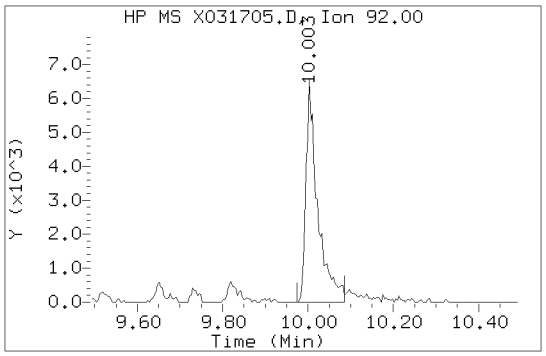
BEFORE

MASS
92
AREA
12533
HEIGHT
6547
30-Mar-2023
12:33
linh
pham



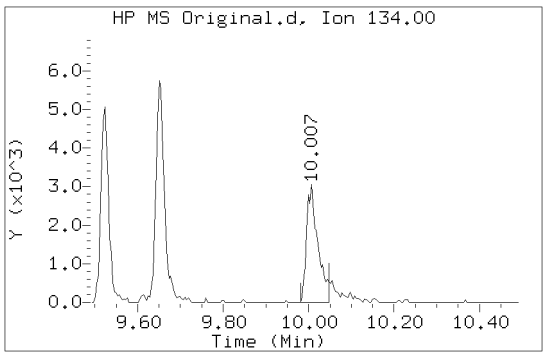
AFTER

MASS
92
AREA
12533
HEIGHT
6547
30-Mar-2023
12:41
linh
pham



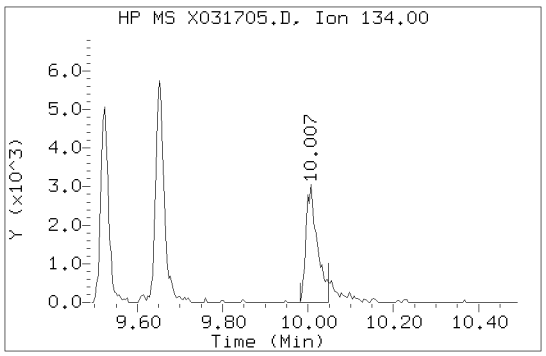
BEFORE

MASS
134
AREA
5667
HEIGHT
3050
30-Mar-2023
12:33
linh
pham



AFTER

MASS
134
AREA
5667
HEIGHT
3050
30-Mar-2023
12:41
linh
pham

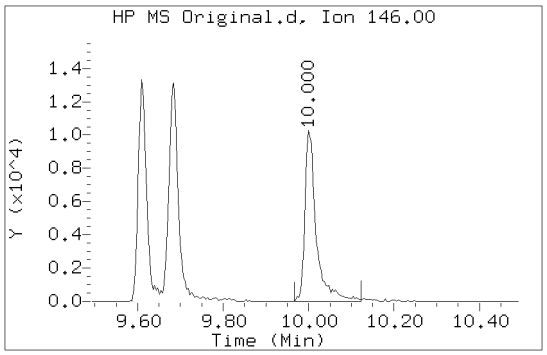


1,2-Dichlorobenzene (95-50-1)

Reason Code:

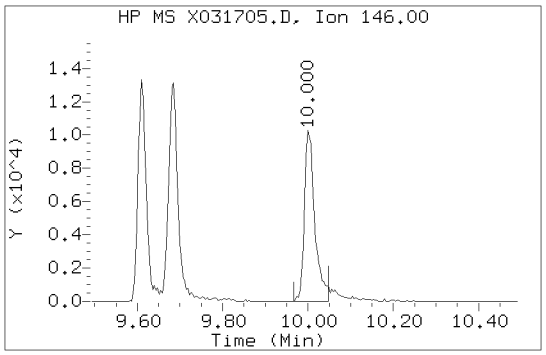
BEFORE

MASS
146
AREA
19256
HEIGHT
10274
30-Mar-2023
12:33
linh
pham



AFTER

MASS
146
AREA
17795
HEIGHT
10274
30-Mar-2023
12:41
linh
pham



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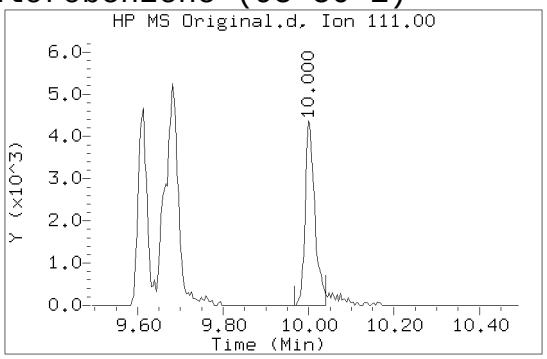
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

1,2-Dichlorobenzene (95-50-1)

Reason Code:

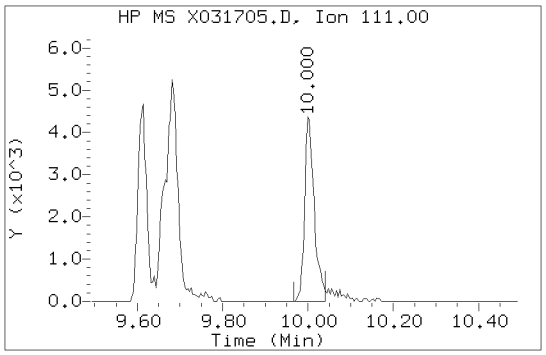
BEFORE

MASS
111
AREA
6944
HEIGHT
4376
30-Mar-2023
12:33
linh
pham



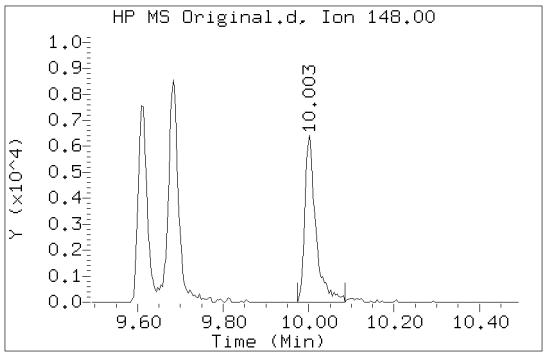
AFTER

MASS
111
AREA
6944
HEIGHT
4376
30-Mar-2023
12:41
linh
pham



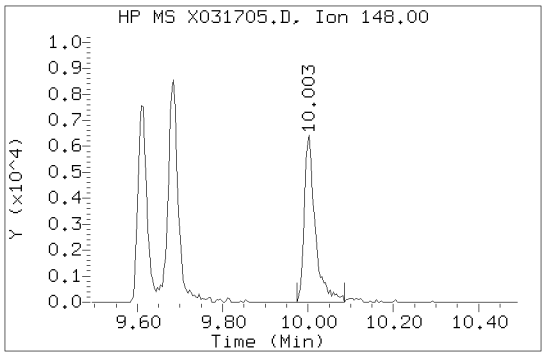
BEFORE

MASS
148
AREA
11682
HEIGHT
6424
30-Mar-2023
12:33
linh
pham



AFTER

MASS
148
AREA
11682
HEIGHT
6424
30-Mar-2023
12:41
linh
pham

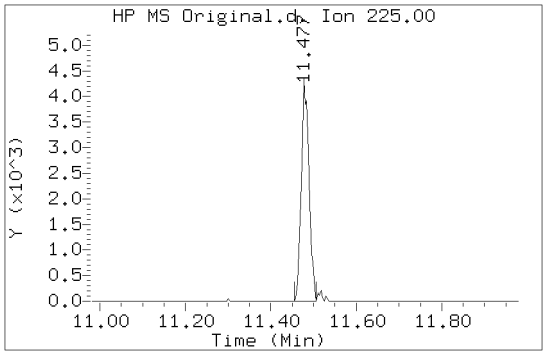


Hexachlorobutadiene (87-68-3)

Reason Code:

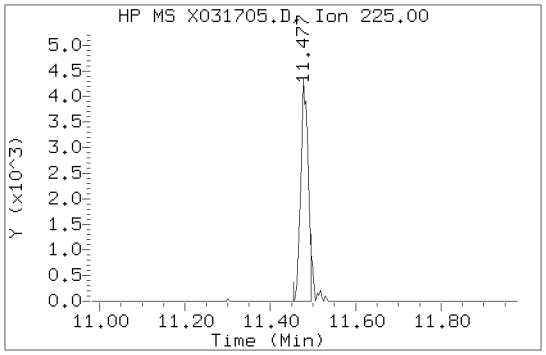
BEFORE

MASS
225
AREA
5604
HEIGHT
4343
30-Mar-2023
12:33
linh
pham



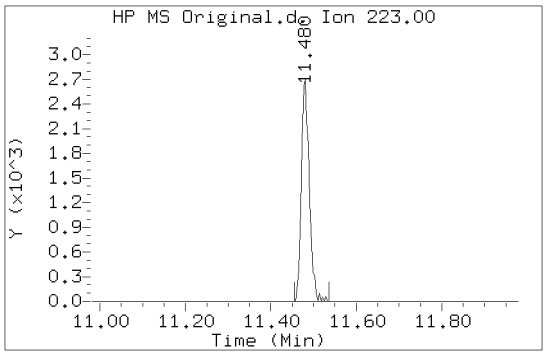
AFTER

MASS
225
AREA
5380
HEIGHT
4343
30-Mar-2023
12:41
linh
pham



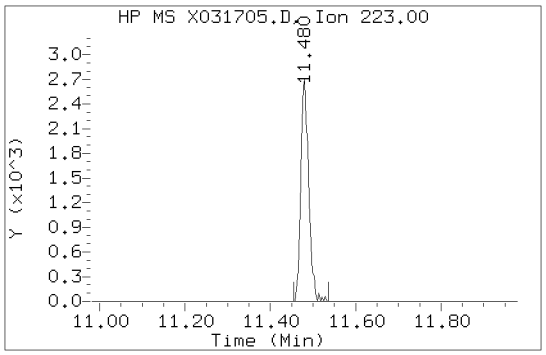
BEFORE

MASS
223
AREA
3589
HEIGHT
2696
30-Mar-2023
12:33
linh
pham



AFTER

MASS
223
AREA
3589
HEIGHT
2696
30-Mar-2023
12:41
linh
pham



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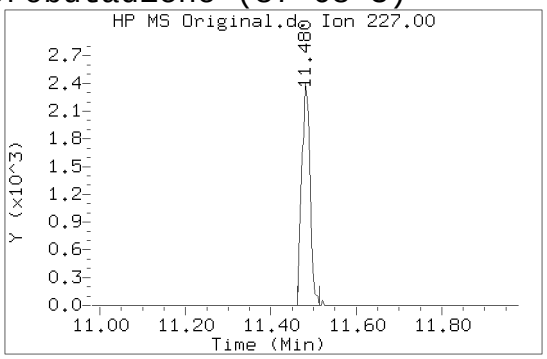
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Hexachlorobutadiene (87-68-3)

Reason Code:

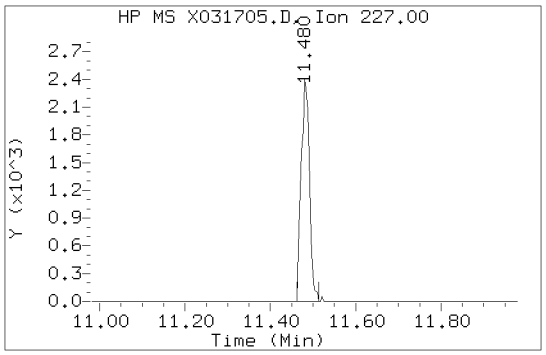
BEFORE

MASS
227
AREA
3365
HEIGHT
2397
30-Mar-2023
12:33
linh
pham



AFTER

MASS
227
AREA
3365
HEIGHT
2397
30-Mar-2023
12:41
linh
pham

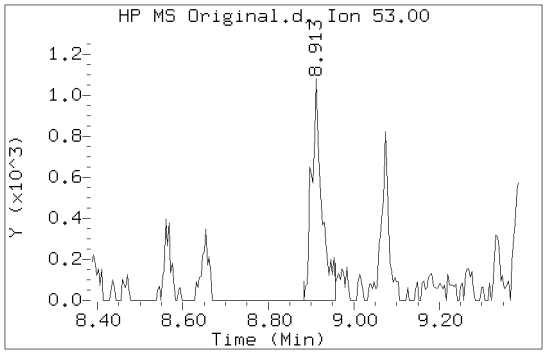


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

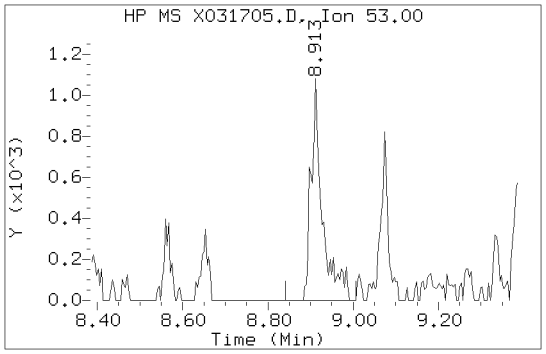
BEFORE

MASS
53
AREA
1786
HEIGHT
1081
30-Mar-2023
12:33
linh
pham



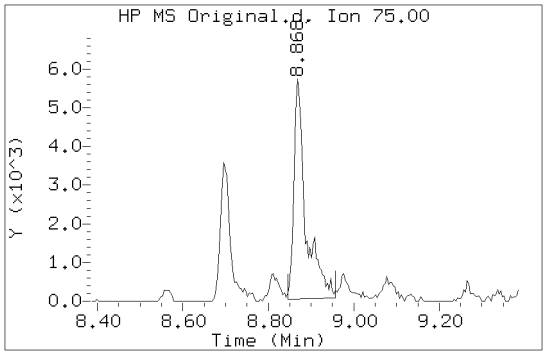
AFTER

MASS
53
AREA
1998
HEIGHT
1081
30-Mar-2023
12:41
linh
pham



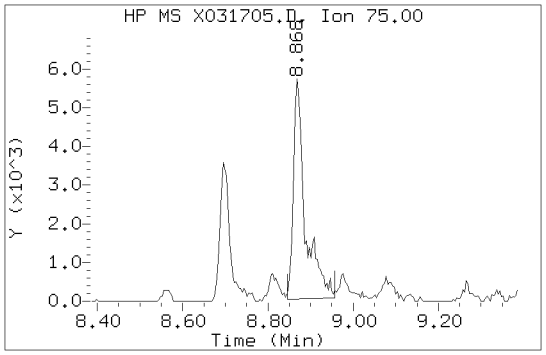
BEFORE

MASS
75
AREA
11042
HEIGHT
5692
30-Mar-2023
12:33
linh
pham



AFTER

MASS
75
AREA
11042
HEIGHT
5692
30-Mar-2023
12:41
linh
pham

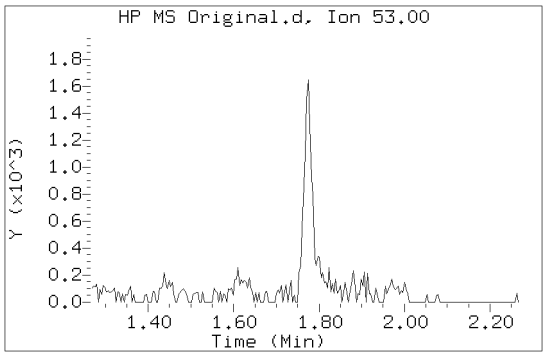


Chloroprene (126-99-8)

Reason Code:

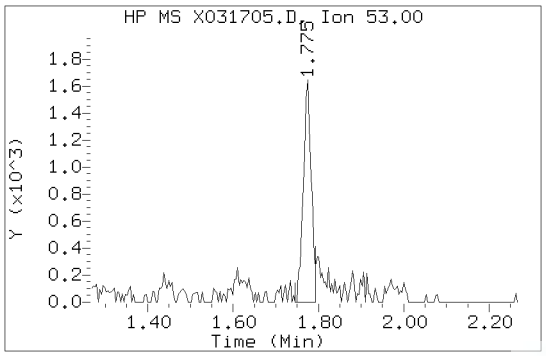
BEFORE

MASS
53
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
53
AREA
2193
HEIGHT
1645
30-Mar-2023
12:41
linh
pham



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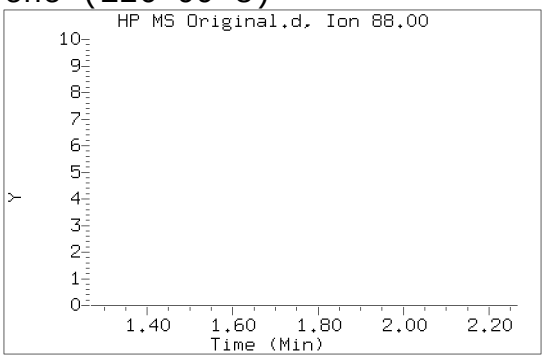
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Chloroprene (126-99-8)

BEFORE

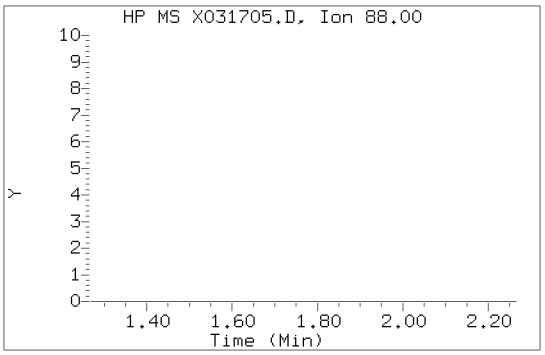
MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

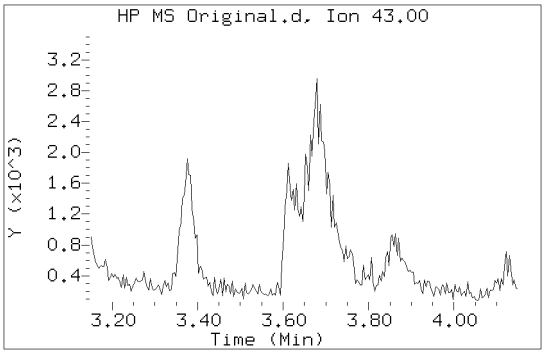
Reason Code:



Ethyl Acetate (141-78-6)

BEFORE

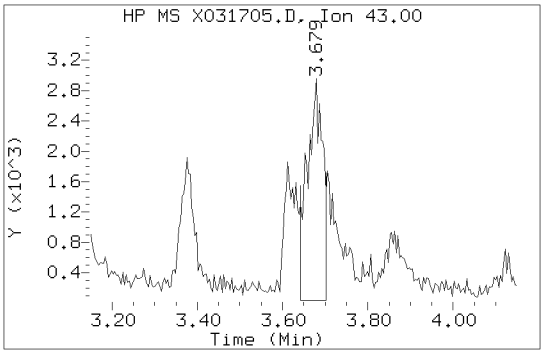
MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

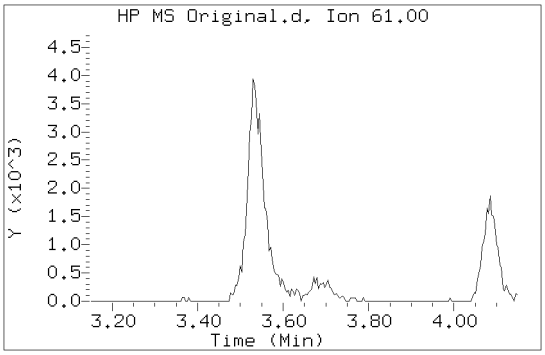
MASS
43
AREA
7453
HEIGHT
2920
30-Mar-2023
12:41
linh
pham

Reason Code:



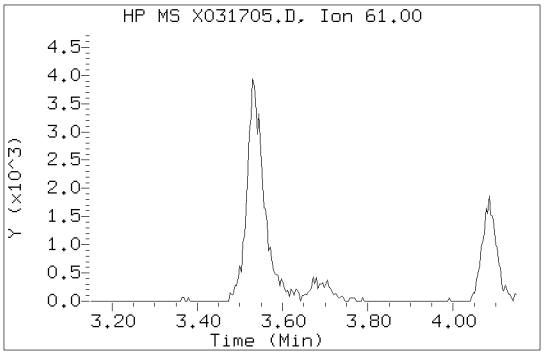
BEFORE

MASS
61
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



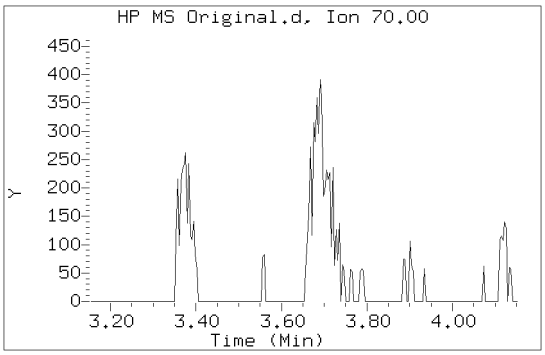
AFTER

MASS
61
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



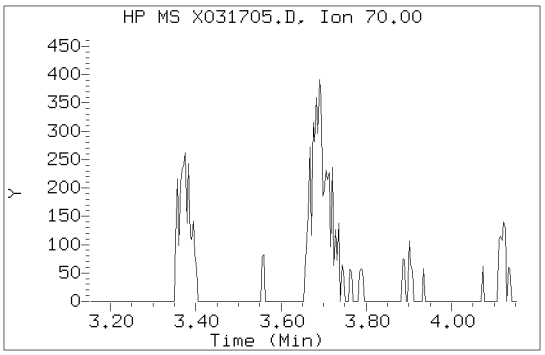
BEFORE

MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

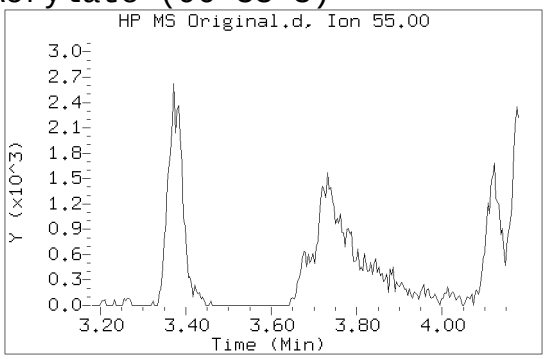


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

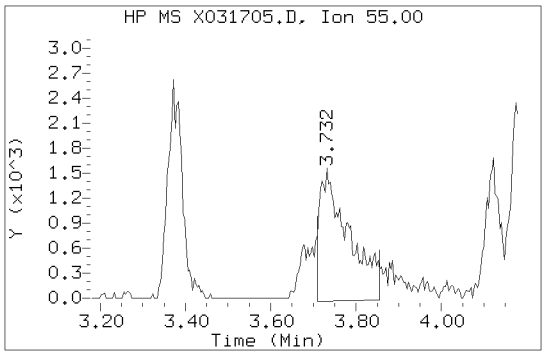
Methyl Acrylate (96-33-3)

Reason Code:

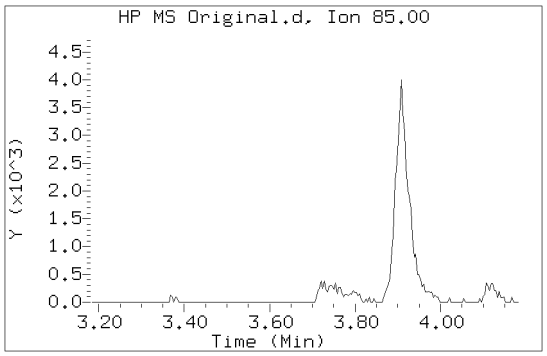
BEFORE
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



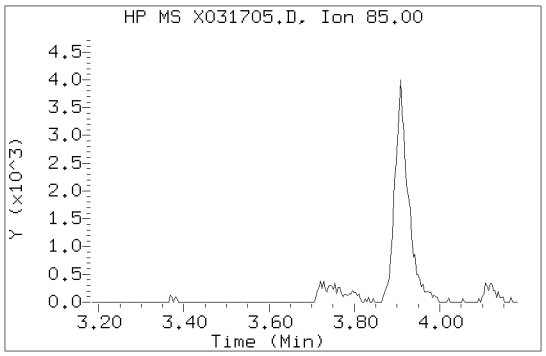
AFTER
MASS
55
AREA
7555
HEIGHT
1599
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



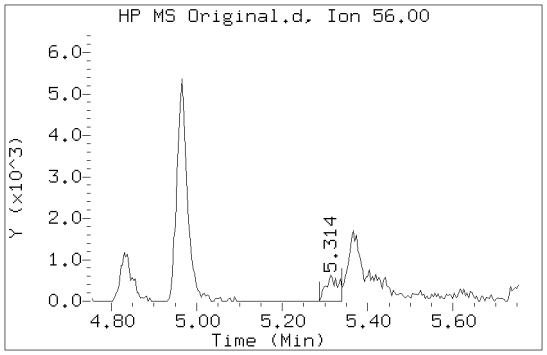
AFTER
MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



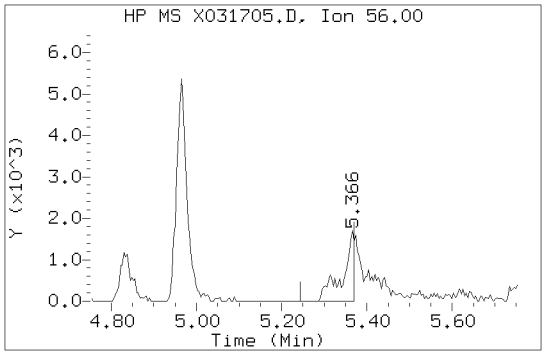
n-Butanol (71-36-3)

Reason Code:

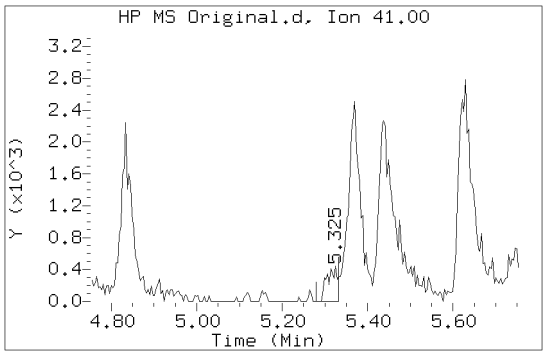
BEFORE
MASS
56
AREA
1263
HEIGHT
640
30-Mar-2023
12:33
linh
pham



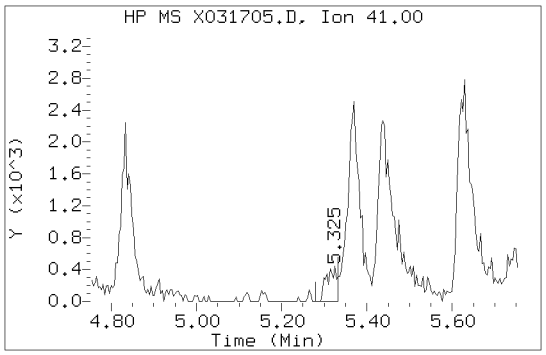
AFTER
MASS
56
AREA
3165
HEIGHT
1712
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
41
AREA
742
HEIGHT
439
30-Mar-2023
12:33
linh
pham



AFTER
MASS
41
AREA
742
HEIGHT
439
30-Mar-2023
12:41
linh
pham



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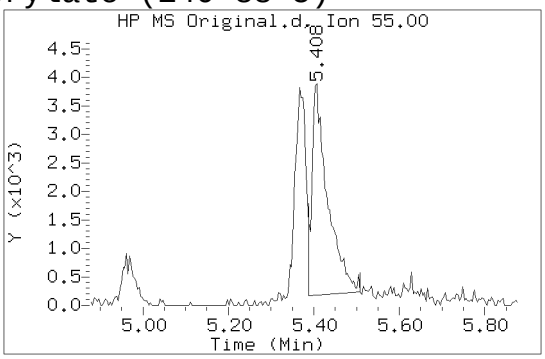
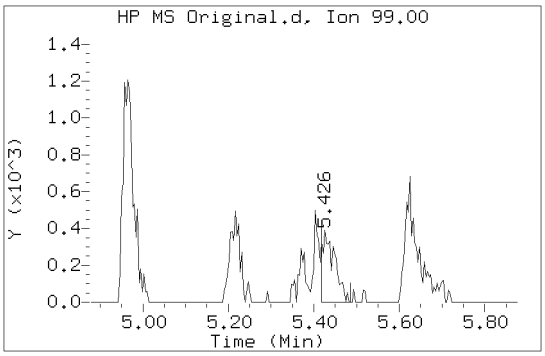
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Ethyl Acrylate (140-88-5)

BEFORE
MASS
55
AREA
9501
HEIGHT
3708
30-Mar-2023
12:33
linh
pham

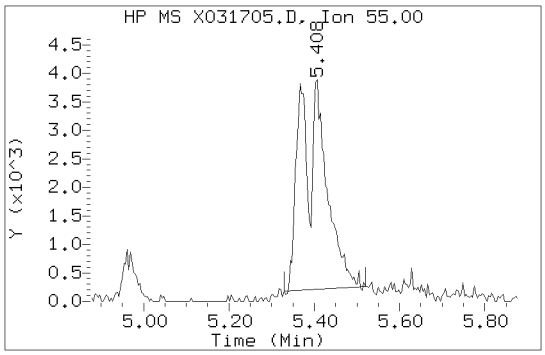


BEFORE
MASS
99
AREA
787
HEIGHT
391
30-Mar-2023
12:33
linh
pham

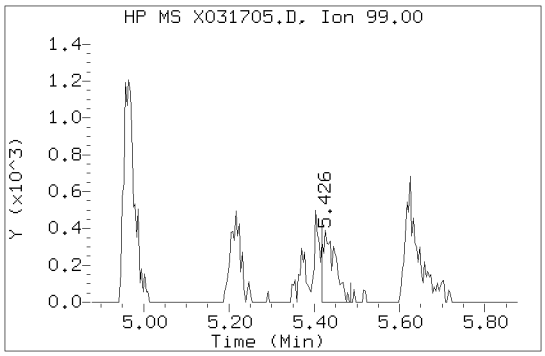


Reason Code:

AFTER
MASS
55
AREA
15497
HEIGHT
3674
30-Mar-2023
12:41
linh
pham

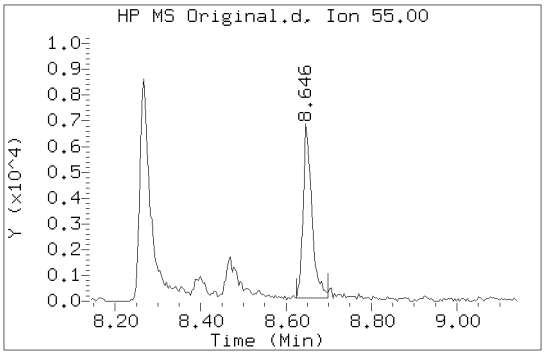


AFTER
MASS
99
AREA
787
HEIGHT
391
30-Mar-2023
12:41
linh
pham

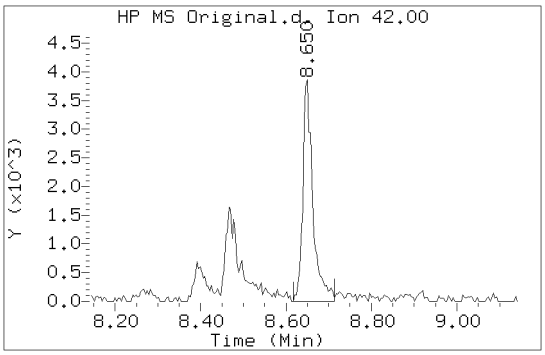


Cyclohexanone (108-94-1)

BEFORE
MASS
55
AREA
9770
HEIGHT
6746
30-Mar-2023
12:33
linh
pham

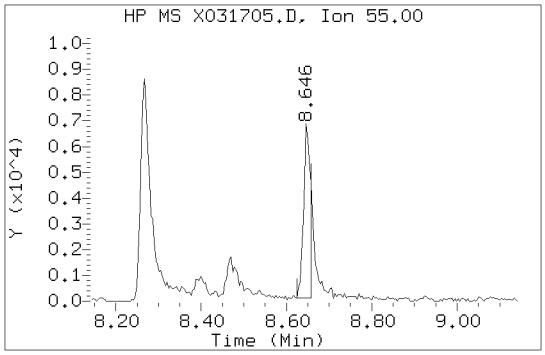


BEFORE
MASS
42
AREA
6426
HEIGHT
3864
30-Mar-2023
12:33
linh
pham

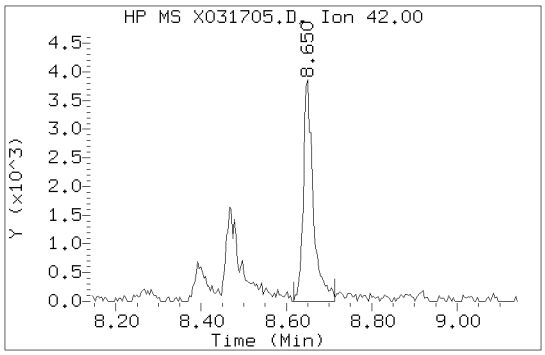


Reason Code:

AFTER
MASS
55
AREA
7426
HEIGHT
6746
30-Mar-2023
12:41
linh
pham



AFTER
MASS
42
AREA
6426
HEIGHT
3864
30-Mar-2023
12:41
linh
pham



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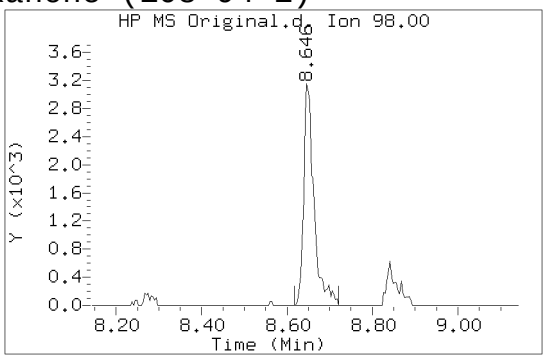
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Cyclohexanone (108-94-1)

Reason Code:

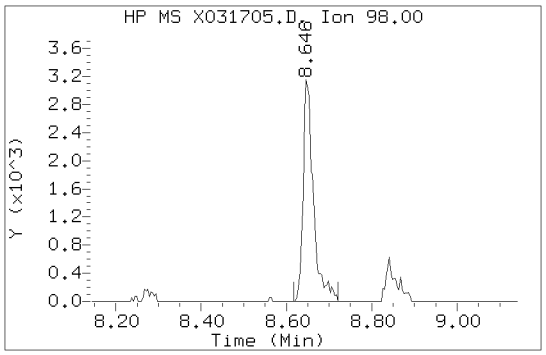
BEFORE

MASS
98
AREA
5390
HEIGHT
3154
30-Mar-2023
12:33
linh
pham



AFTER

MASS
98
AREA
5390
HEIGHT
3154
30-Mar-2023
12:41
linh
pham

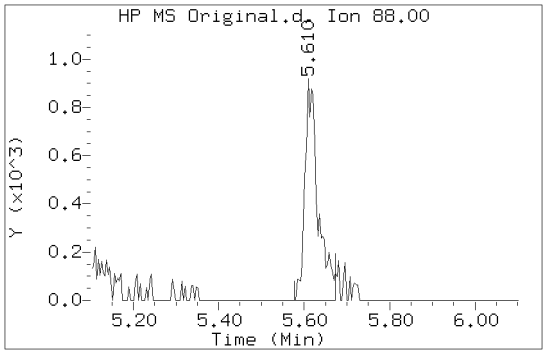


1,4-Dioxane ()

Reason Code:

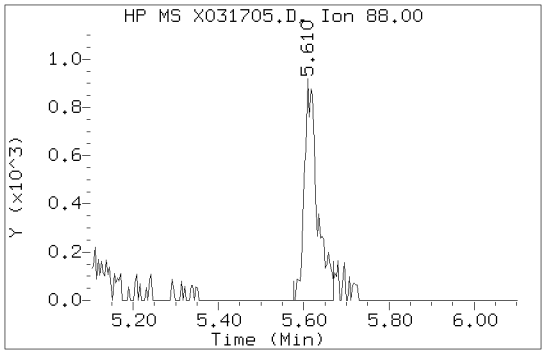
BEFORE

MASS
88
AREA
1992
HEIGHT
919
30-Mar-2023
12:33
linh
pham



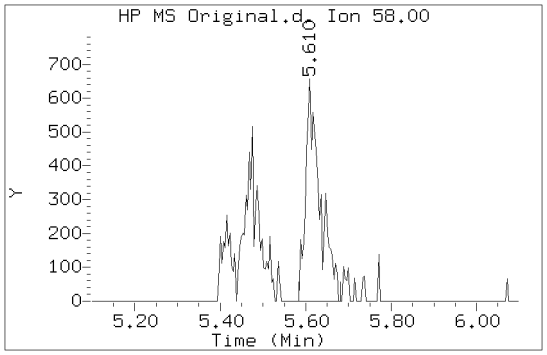
AFTER

MASS
88
AREA
1966
HEIGHT
919
30-Mar-2023
12:41
linh
pham



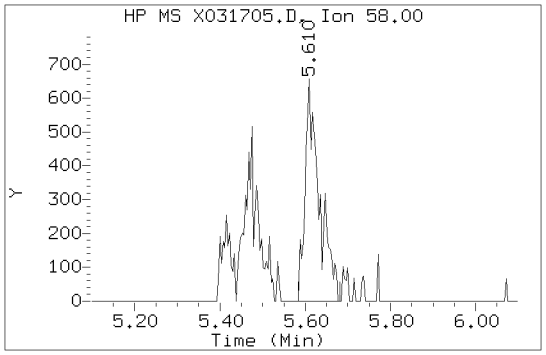
BEFORE

MASS
58
AREA
1530
HEIGHT
657
30-Mar-2023
12:33
linh
pham



AFTER

MASS
58
AREA
1530
HEIGHT
657
30-Mar-2023
12:41
linh
pham

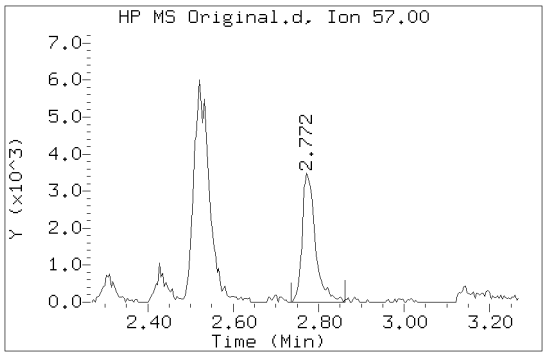


n-Hexane (110-54-3)

Reason Code:

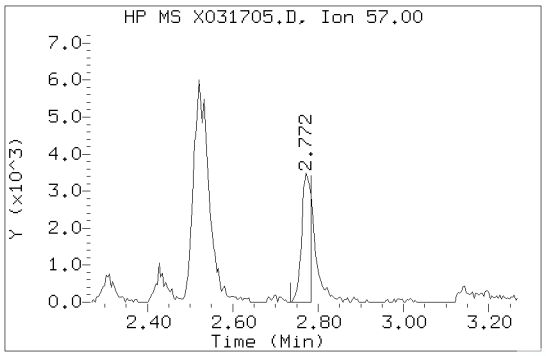
BEFORE

MASS
57
AREA
7617
HEIGHT
3483
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
5204
HEIGHT
3483
30-Mar-2023
12:41
linh
pham



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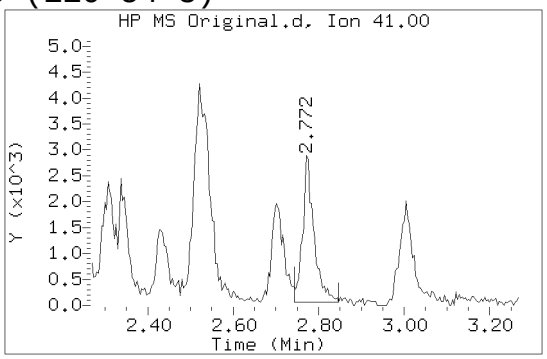
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

n-Hexane (110-54-3)

Reason Code:

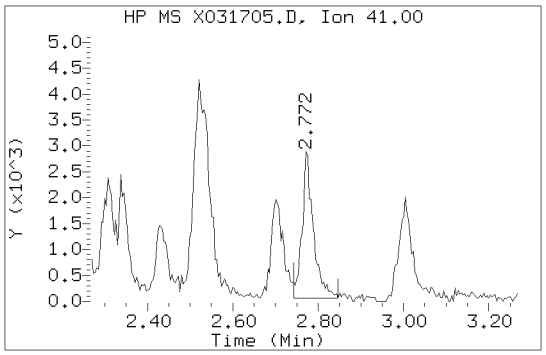
BEFORE

MASS
41
AREA
5361
HEIGHT
2834
30-Mar-2023
12:33
linh
pham



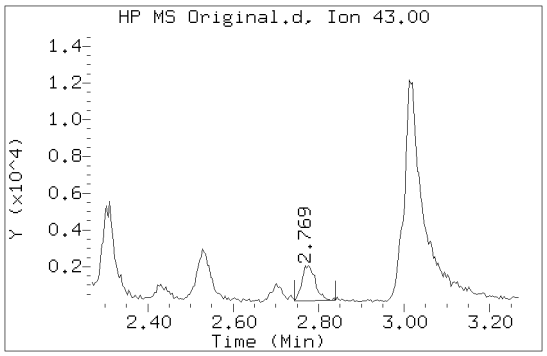
AFTER

MASS
41
AREA
5361
HEIGHT
2834
30-Mar-2023
12:41
linh
pham



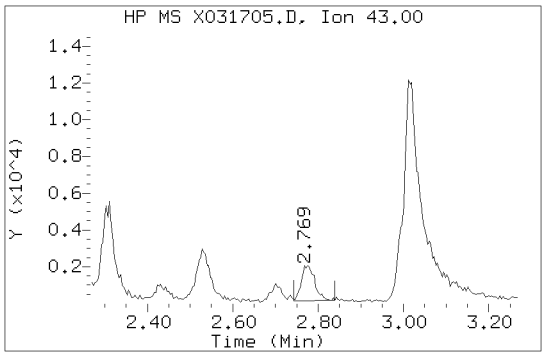
BEFORE

MASS
43
AREA
4306
HEIGHT
1911
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
AREA
4306
HEIGHT
1911
30-Mar-2023
12:41
linh
pham

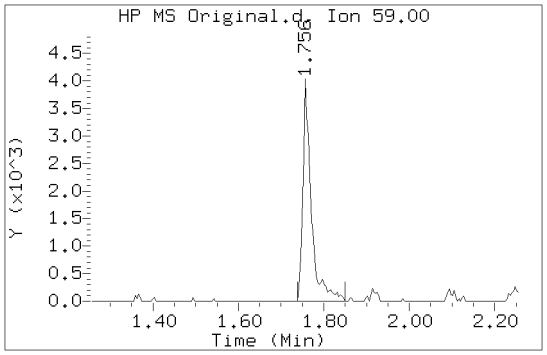


Diethyl ether (60-29-7)

Reason Code:

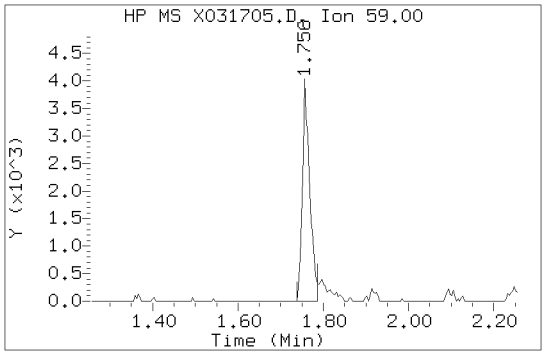
BEFORE

MASS
59
AREA
5680
HEIGHT
4036
30-Mar-2023
12:33
linh
pham



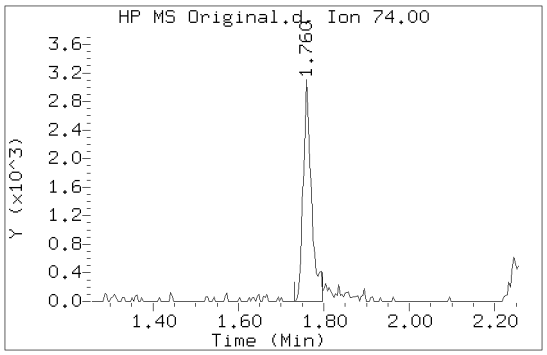
AFTER

MASS
59
AREA
4986
HEIGHT
4036
30-Mar-2023
12:41
linh
pham



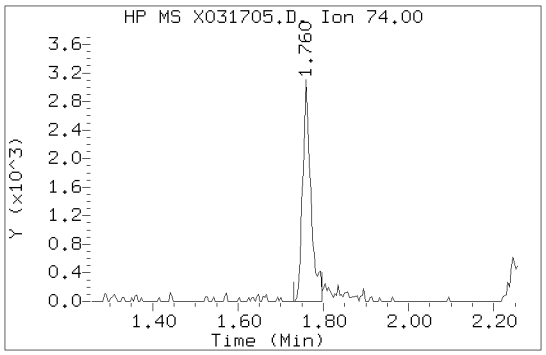
BEFORE

MASS
74
AREA
4223
HEIGHT
3105
30-Mar-2023
12:33
linh
pham



AFTER

MASS
74
AREA
4223
HEIGHT
3105
30-Mar-2023
12:41
linh
pham



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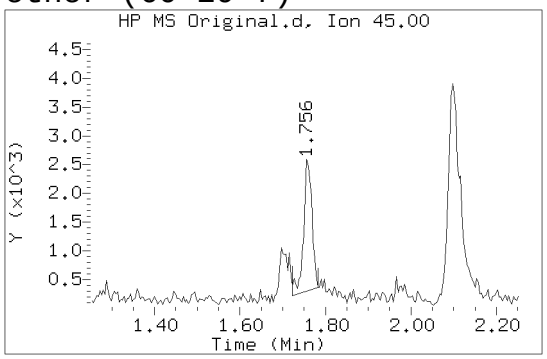
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Diethyl ether (60-29-7)

Reason Code:

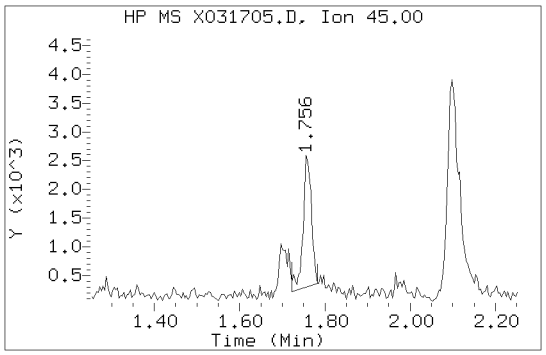
BEFORE

MASS
45
AREA
3205
HEIGHT
2290
30-Mar-2023
12:33
linh
pham



AFTER

MASS
45
AREA
3205
HEIGHT
2290
30-Mar-2023
12:41
linh
pham

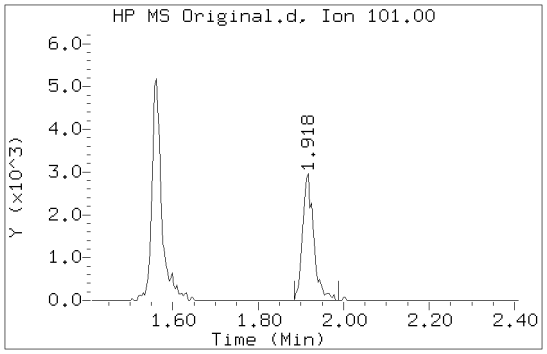


Freon TF (76-13-1)

Reason Code:

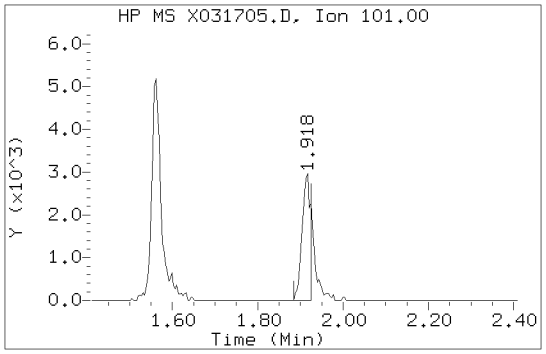
BEFORE

MASS
101
AREA
5432
HEIGHT
2973
30-Mar-2023
12:33
linh
pham



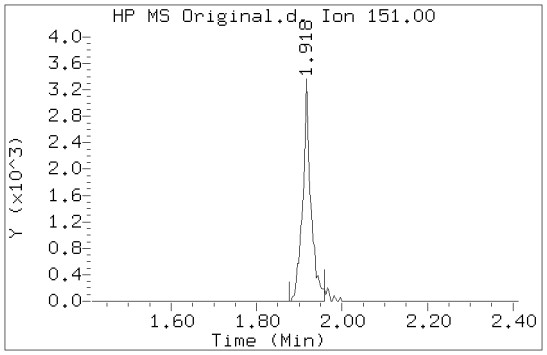
AFTER

MASS
101
AREA
4071
HEIGHT
2973
30-Mar-2023
12:41
linh
pham



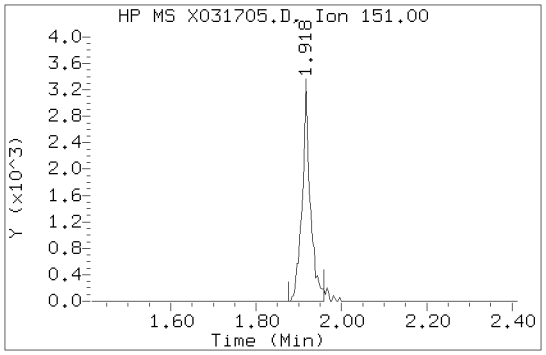
BEFORE

MASS
151
AREA
4526
HEIGHT
3365
30-Mar-2023
12:33
linh
pham



AFTER

MASS
151
AREA
4526
HEIGHT
3365
30-Mar-2023
12:41
linh
pham

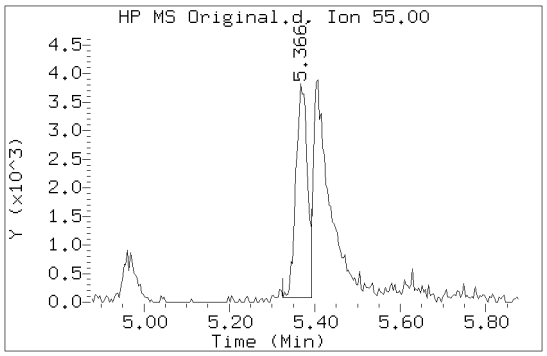


Methylcyclohexane (108-87-2)

Reason Code:

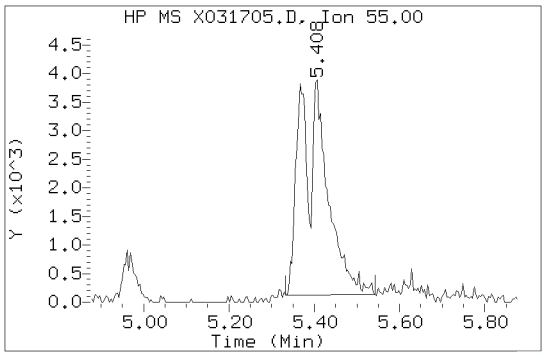
BEFORE

MASS
55
AREA
7180
HEIGHT
3750
30-Mar-2023
12:33
linh
pham



AFTER

MASS
55
AREA
16726
HEIGHT
3762
30-Mar-2023
12:41
linh
pham



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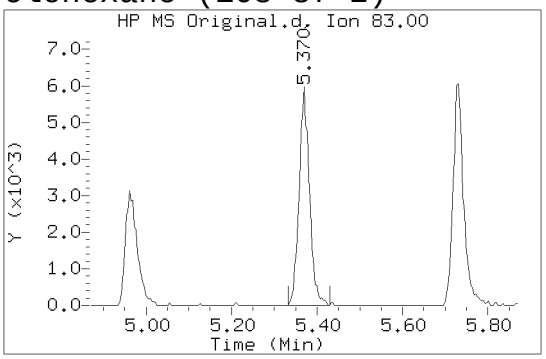
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Methylcyclohexane (108-87-2)

Reason Code:

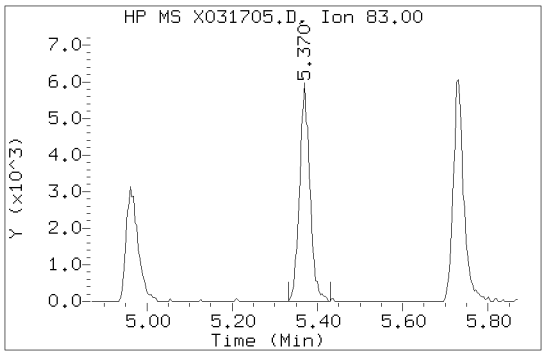
BEFORE

MASS
83
AREA
10272
HEIGHT
5978
30-Mar-2023
12:33
linh
pham



AFTER

MASS
83
AREA
10272
HEIGHT
5978
30-Mar-2023
12:41
linh
pham

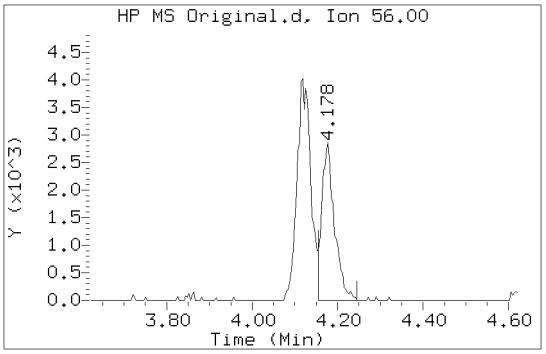


Cyclohexane (110-82-7)

Reason Code:

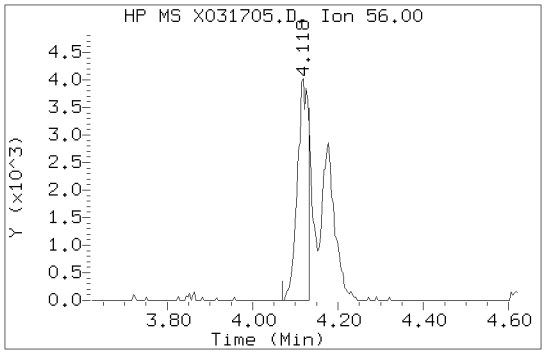
BEFORE

MASS
56
AREA
5934
HEIGHT
2865
30-Mar-2023
12:33
linh
pham



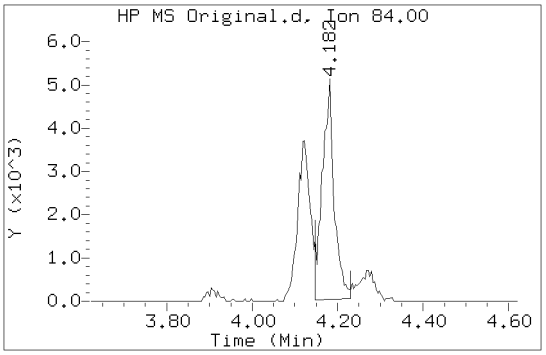
AFTER

MASS
56
AREA
7493
HEIGHT
4022
30-Mar-2023
12:41
linh
pham



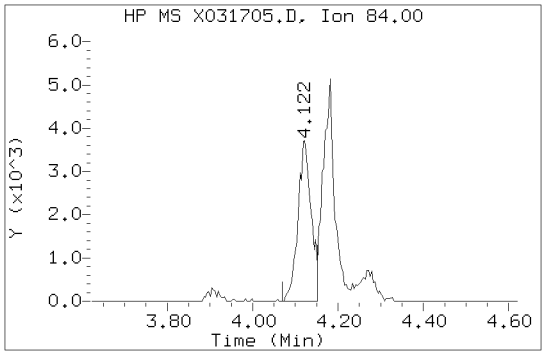
BEFORE

MASS
84
AREA
9905
HEIGHT
5100
30-Mar-2023
12:33
linh
pham



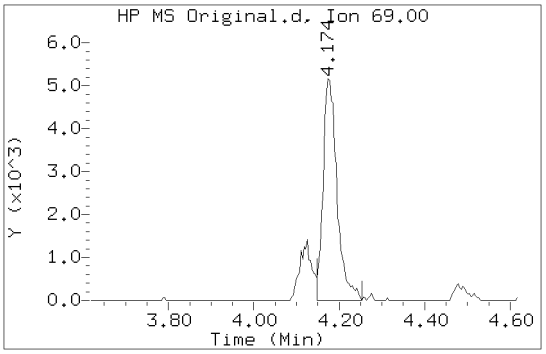
AFTER

MASS
84
AREA
8172
HEIGHT
3709
30-Mar-2023
12:41
linh
pham



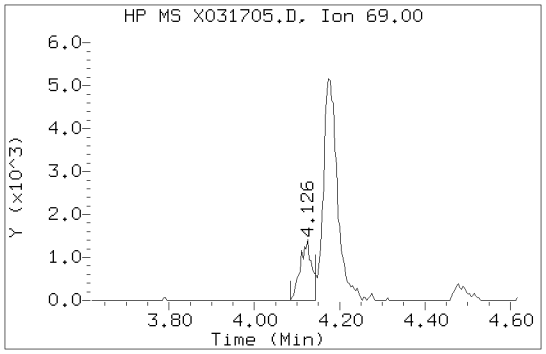
BEFORE

MASS
69
AREA
11725
HEIGHT
5165
30-Mar-2023
12:33
linh
pham



AFTER

MASS
69
AREA
2719
HEIGHT
1421
30-Mar-2023
12:41
linh
pham



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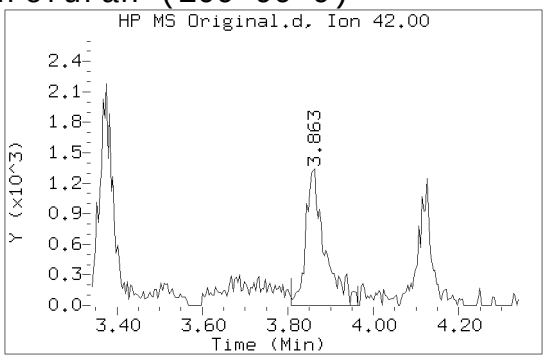
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

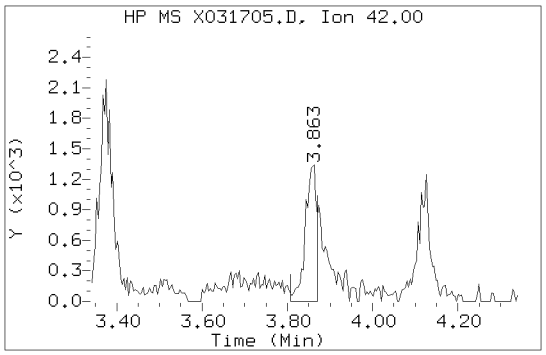
Tetrahydrofuran (109-99-9)

Reason Code:

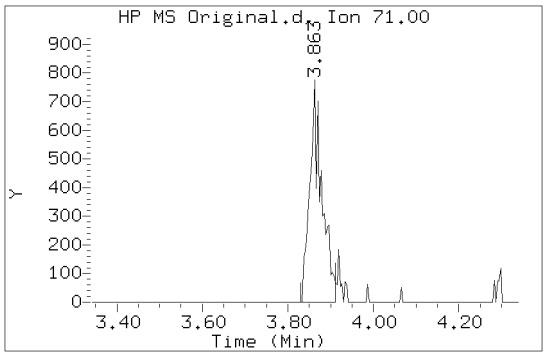
BEFORE
MASS
42
AREA
4203
HEIGHT
1345
30-Mar-2023
12:33
linh
pham



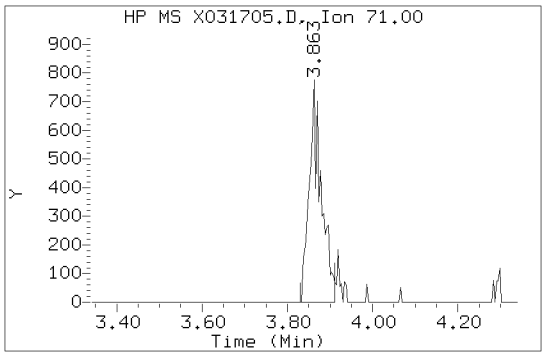
AFTER
MASS
42
AREA
2463
HEIGHT
1345
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
71
AREA
1529
HEIGHT
776
30-Mar-2023
12:33
linh
pham



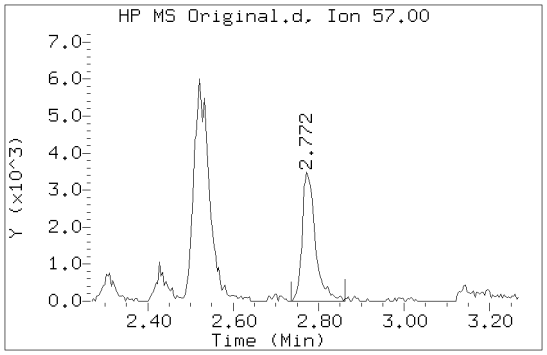
AFTER
MASS
71
AREA
1529
HEIGHT
776
30-Mar-2023
12:41
linh
pham



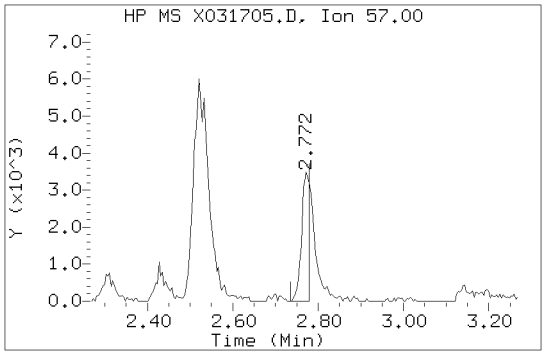
Allyl alcohol (107-18-6)

Reason Code:

BEFORE
MASS
57
AREA
7617
HEIGHT
3483
30-Mar-2023
12:33
linh
pham



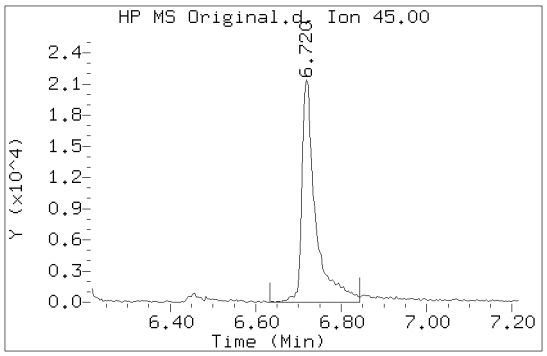
AFTER
MASS
57
AREA
4552
HEIGHT
3483
30-Mar-2023
12:41
linh
pham



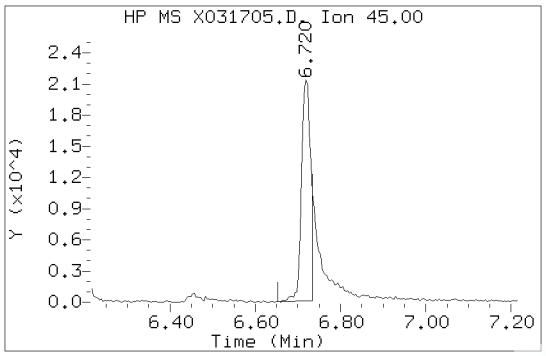
4-Methyl-2-pentanol (108-11-2)

Reason Code:

BEFORE
MASS
45
AREA
48899
HEIGHT
21400
30-Mar-2023
12:33
linh
pham



AFTER
MASS
45
AREA
32931
HEIGHT
21310
30-Mar-2023
12:41
linh
pham



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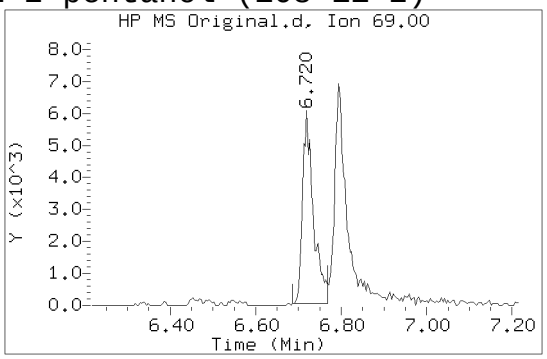
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

4-Methyl-2-pentanol (108-11-2)

Reason Code:

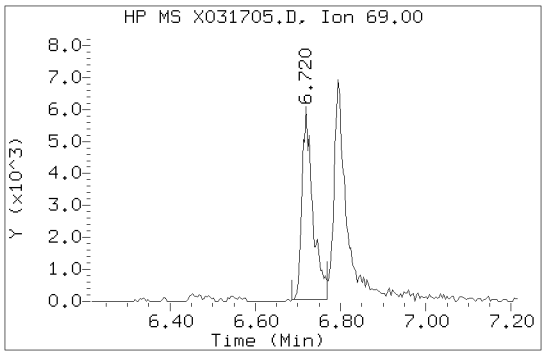
BEFORE

MASS
69
AREA
10752
HEIGHT
6028
30-Mar-2023
12:33
linh
pham



AFTER

MASS
69
AREA
10752
HEIGHT
6028
30-Mar-2023
12:41
linh
pham

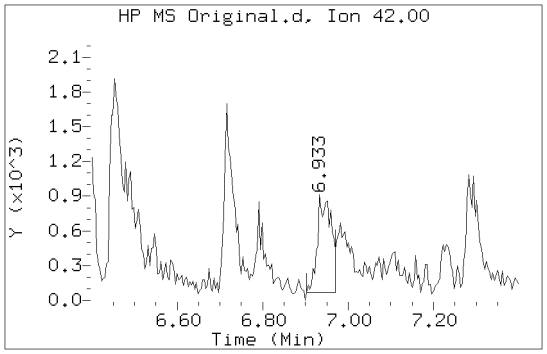


Amyl alcohol (71-41-0)

Reason Code:

BEFORE

MASS
42
AREA
1896
HEIGHT
843
30-Mar-2023
12:33
linh
pham



AFTER

MASS
42
AREA
3699
HEIGHT
908
30-Mar-2023
12:41
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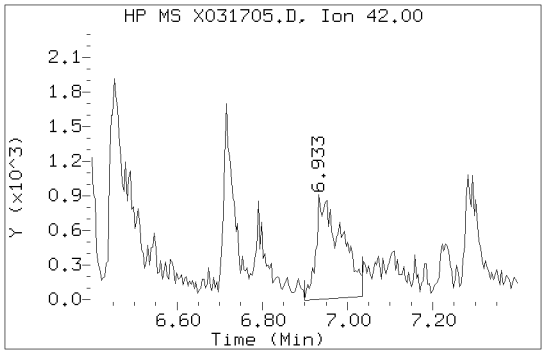
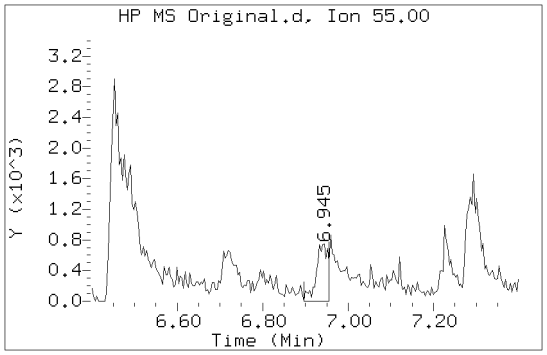


BEFORE

MASS
55
AREA
1444
HEIGHT
744
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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744
30-Mar-2023
12:41
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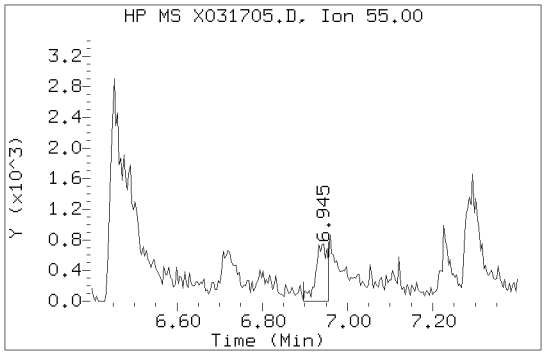

BEFORE

MASS
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AREA
883
HEIGHT
515
30-Mar-2023
12:33
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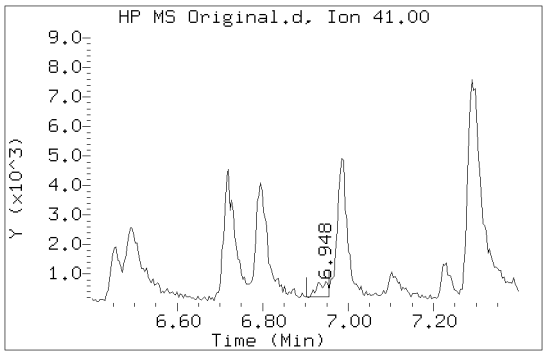

AFTER

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12:41
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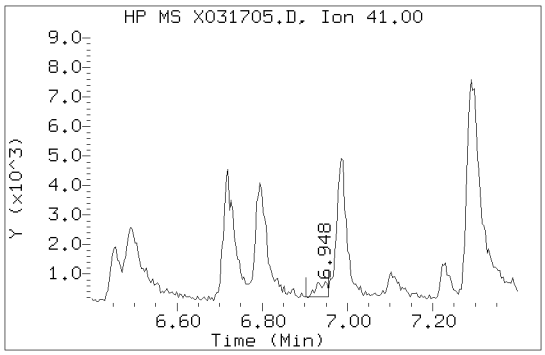

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Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Dichlorofluoromethane (75-43-4)

Reason Code:

BEFORE
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67
AREA
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HEIGHT
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30-Mar-2023
12:33
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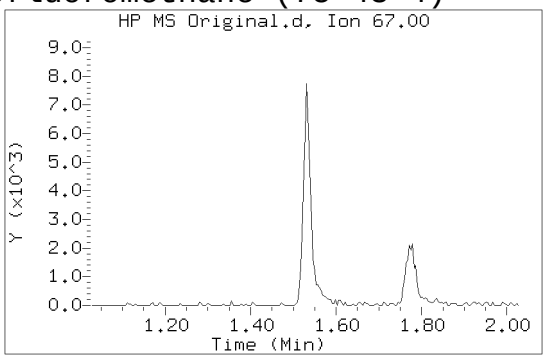
pham



AFTER
MASS
67
AREA
9922
HEIGHT
7742
30-Mar-2023
12:41
linh
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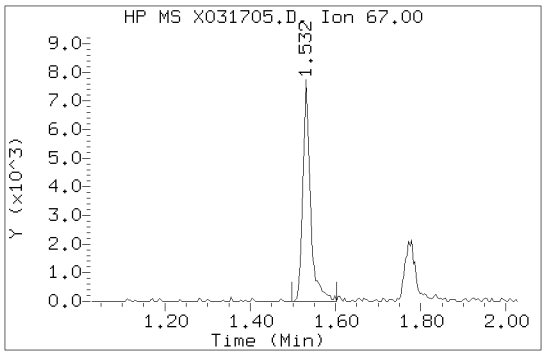

BEFORE
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69
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30-Mar-2023
12:33
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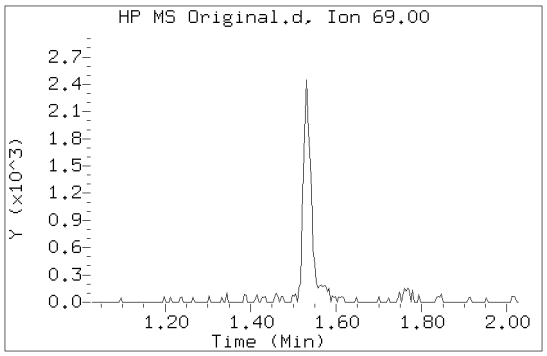

AFTER
MASS
69
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HEIGHT
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30-Mar-2023
12:41
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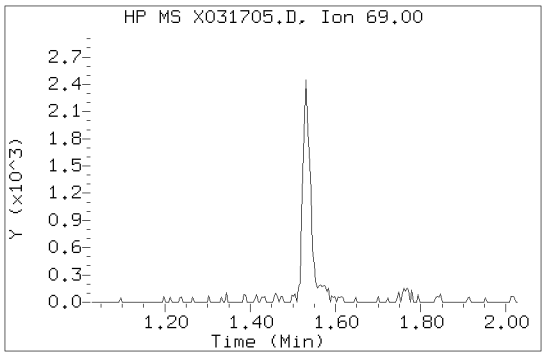

BEFORE
MASS
37
AREA
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HEIGHT
0
30-Mar-2023
12:33
linh
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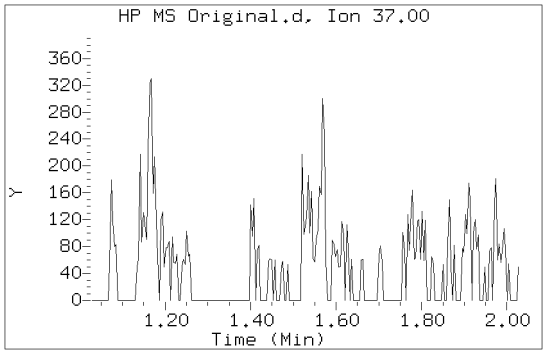

AFTER
MASS
37
AREA
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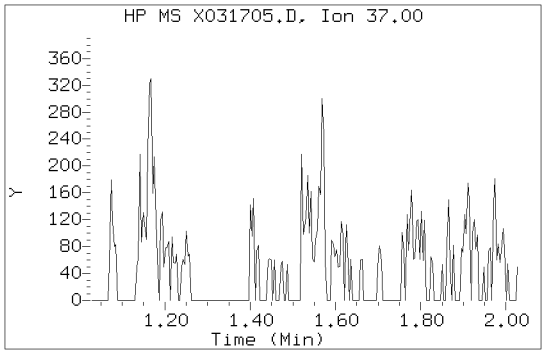
HEIGHT
0
30-Mar-2023
12:41
linh
pham



3-Methyl-1-butanol (123-51-3)

Reason Code:

BEFORE
MASS
55
AREA
1444
HEIGHT
744
30-Mar-2023
12:33
linh
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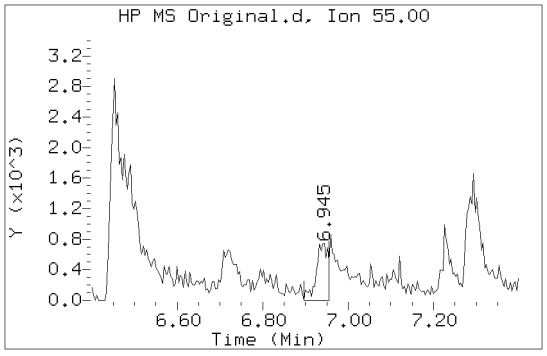
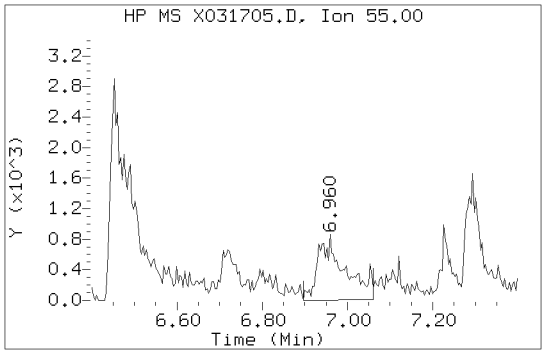


AFTER
MASS
55
AREA
3723
HEIGHT
862
30-Mar-2023
12:41
linh
pham



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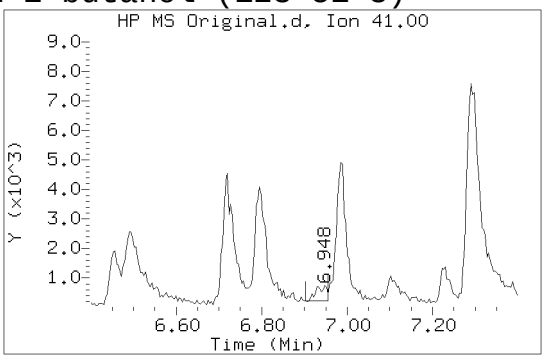
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

3-Methyl-1-butanol (123-51-3)

Reason Code:

BEFORE

MASS
41
AREA
883
HEIGHT
515
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
883
HEIGHT
515
30-Mar-2023
12:41
linh
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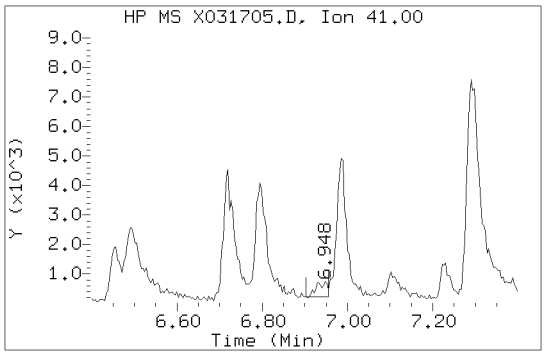

tert-Butyl formate (762-75-4)

Reason Code:

BEFORE

MASS
59
AREA
15126
HEIGHT
5602
30-Mar-2023
12:33
linh
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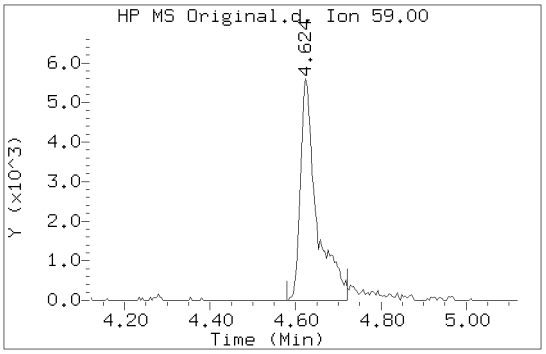

AFTER

MASS
59
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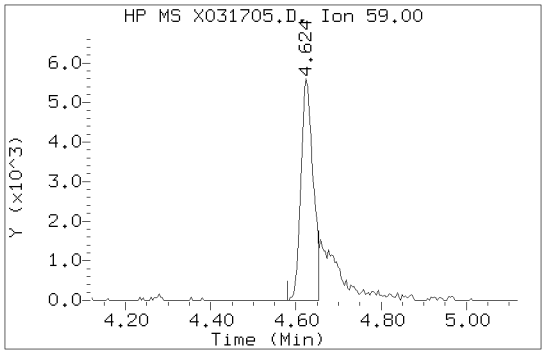
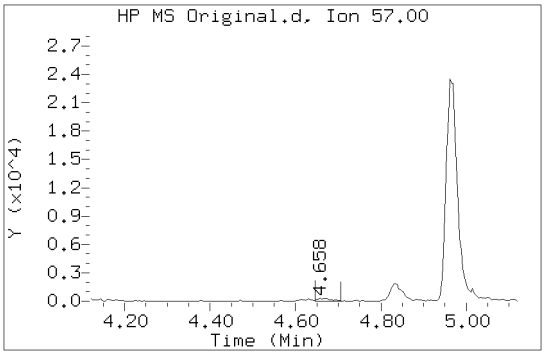
5602
30-Mar-2023
12:41
linh
pham



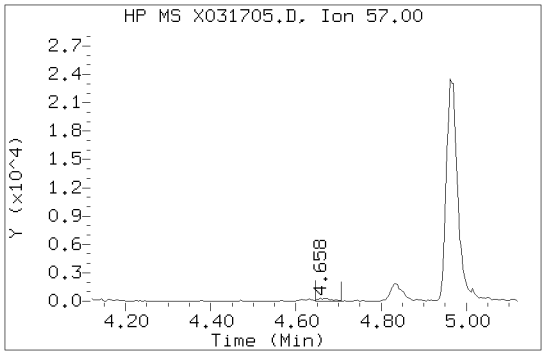
BEFORE

MASS
57
AREA
678
HEIGHT
349
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
678
HEIGHT
349
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
41
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1083
30-Mar-2023
12:33
linh
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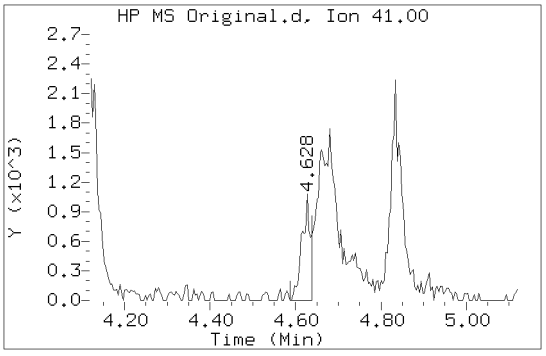
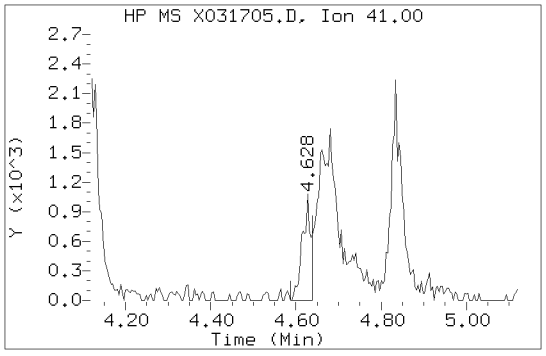


AFTER

MASS
41
AREA
1513
HEIGHT
1083
30-Mar-2023
12:41
linh
pham



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Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE
MASS
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AREA
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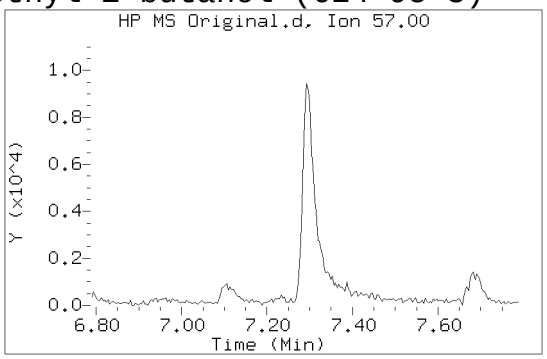
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
57
AREA
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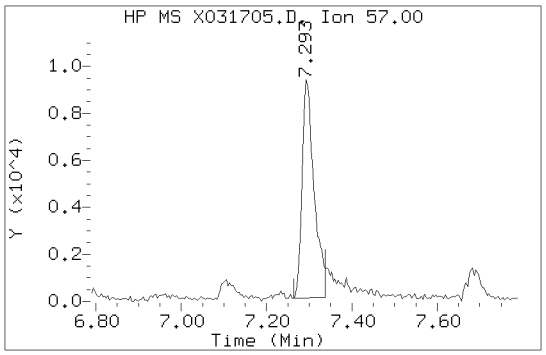
HEIGHT
9284
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
67
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30-Mar-2023
12:33
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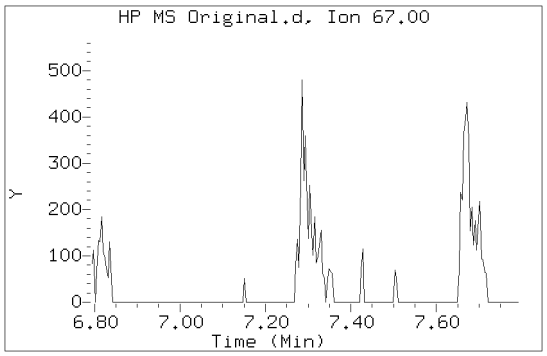

AFTER
MASS
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HEIGHT
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30-Mar-2023
12:41
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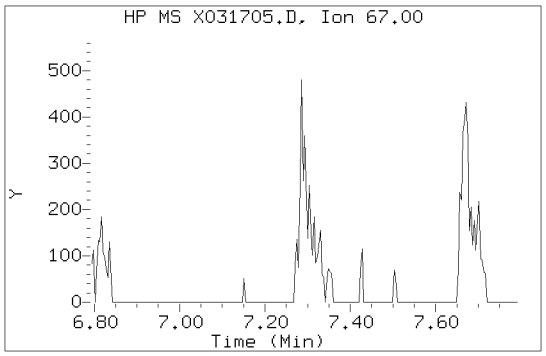

BEFORE
MASS
56
AREA
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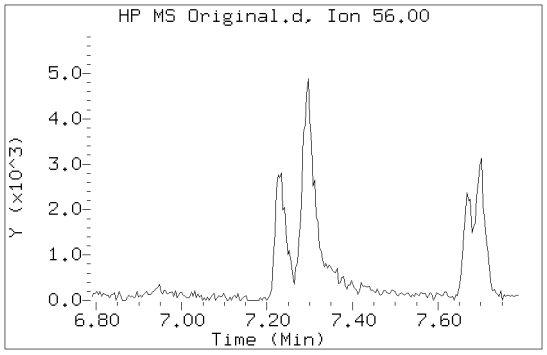
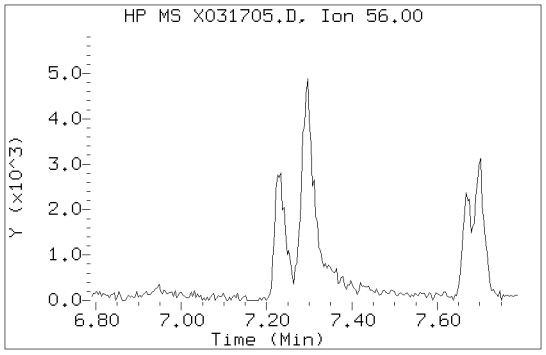
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



tert-Amyl methyl ether (974-05-08)

Reason Code:

BEFORE
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73
AREA
34081
HEIGHT
12932
30-Mar-2023
12:33
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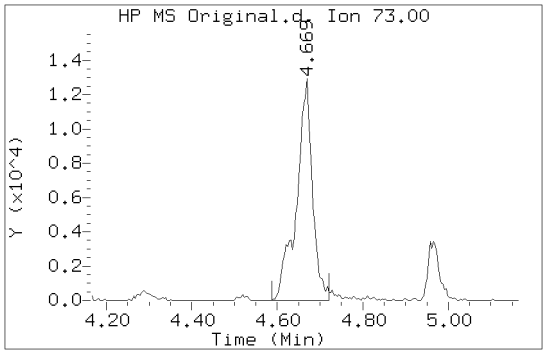

AFTER
MASS
73
AREA
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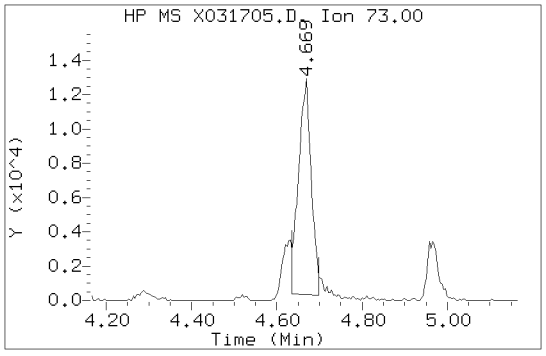
HEIGHT
12587
30-Mar-2023
12:41
linh
pham



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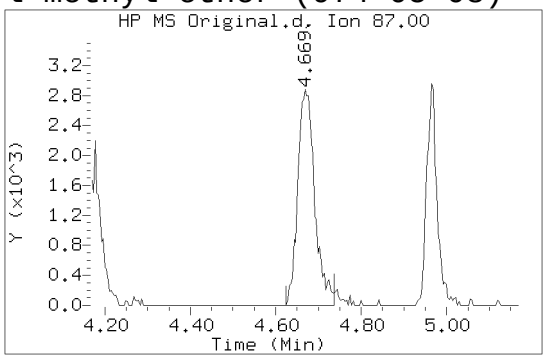
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

tert-Amyl methyl ether (974-05-08)

Reason Code:

BEFORE

MASS
87
AREA
8078
HEIGHT
2884
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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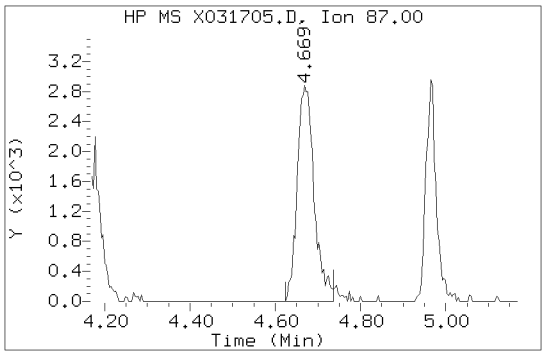
AREA
8078
HEIGHT
2884
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
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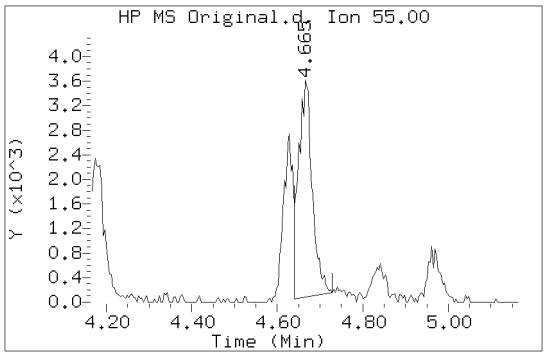
AREA
8190
HEIGHT
3535
30-Mar-2023
12:33
linh
pham



AFTER

MASS
55
AREA
8190
HEIGHT
3535
30-Mar-2023
12:41
linh
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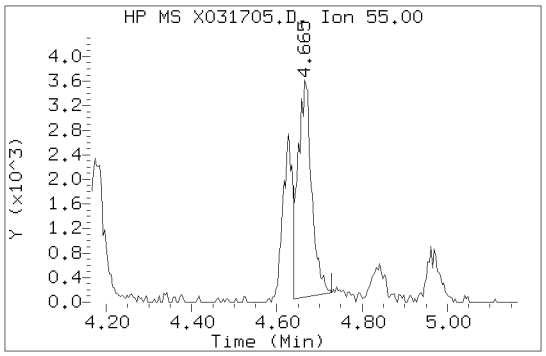
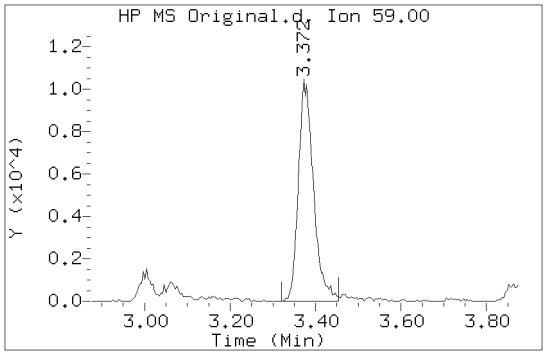


tert-Butyl ethyl ether (637-92-3)

Reason Code:

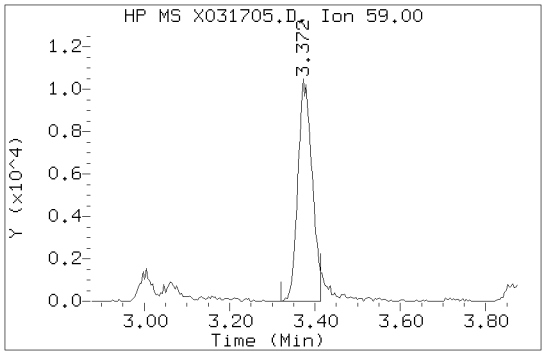
BEFORE

MASS
59
AREA
26012
HEIGHT
10481
30-Mar-2023
12:33
linh
pham



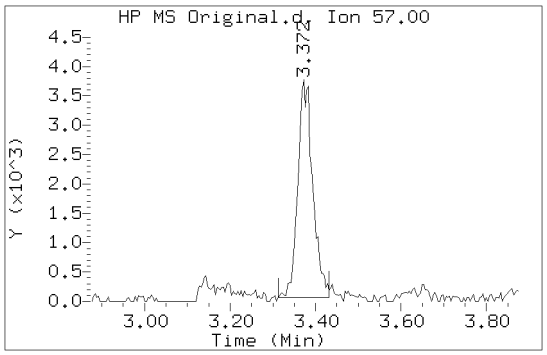
AFTER

MASS
59
AREA
24578
HEIGHT
10481
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
57
AREA
9190
HEIGHT
3714
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
9190
HEIGHT
3714
30-Mar-2023
12:41
linh
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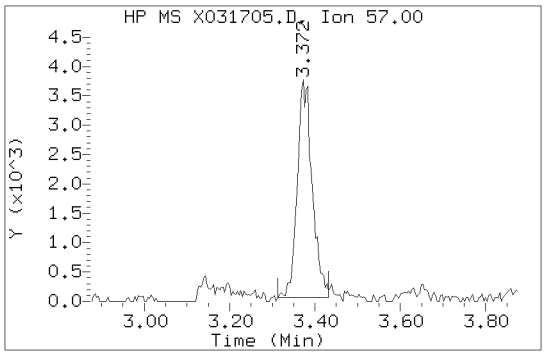

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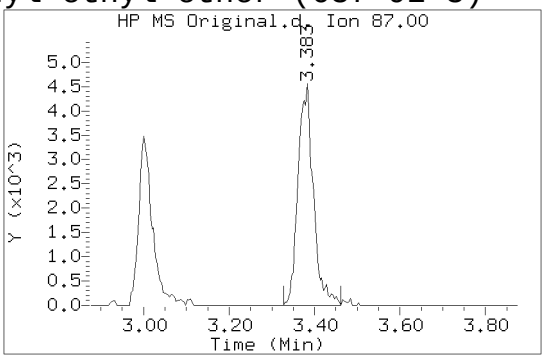
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

tert-Butyl ethyl ether (637-92-3)

Reason Code:

BEFORE

MASS
87
AREA
11488
HEIGHT
4560
30-Mar-2023
12:33
linh
pham



AFTER

MASS
87
AREA
11488
HEIGHT
4560
30-Mar-2023
12:41
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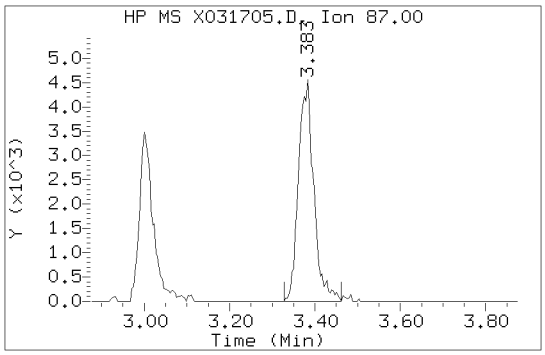
pham

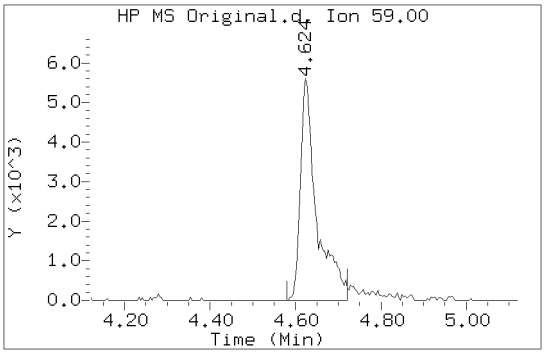


tert-Amyl alcohol (75-85-4)

Reason Code:

BEFORE

MASS
59
AREA
15126
HEIGHT
5602
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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AREA
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HEIGHT
5602
30-Mar-2023
12:41
linh
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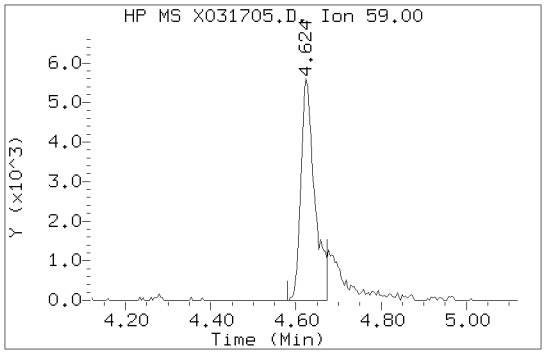
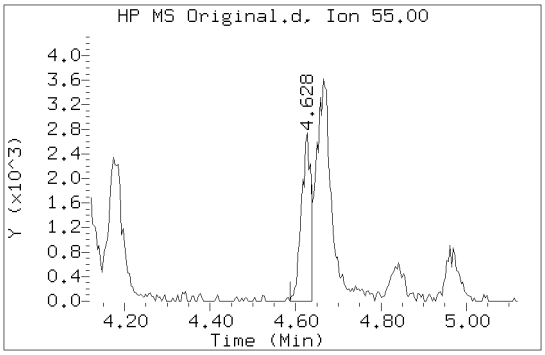


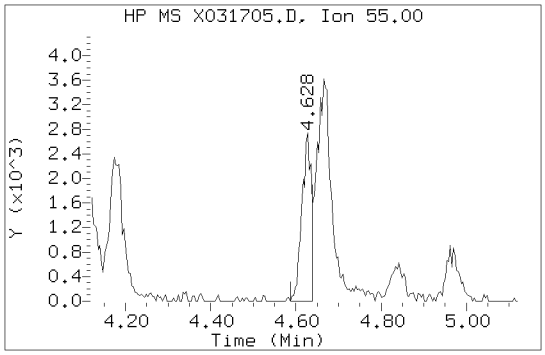
BEFORE

MASS
55
AREA
4285
HEIGHT
2742
30-Mar-2023
12:33
linh
pham



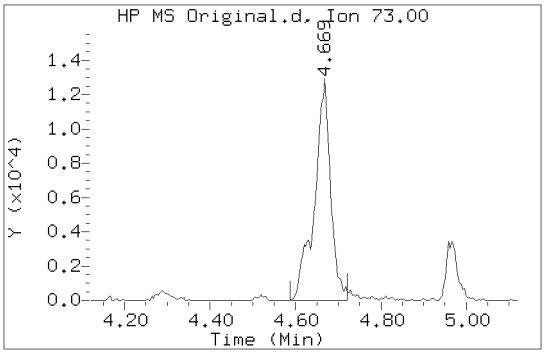
AFTER

MASS
55
AREA
4285
HEIGHT
2742
30-Mar-2023
12:41
linh
pham



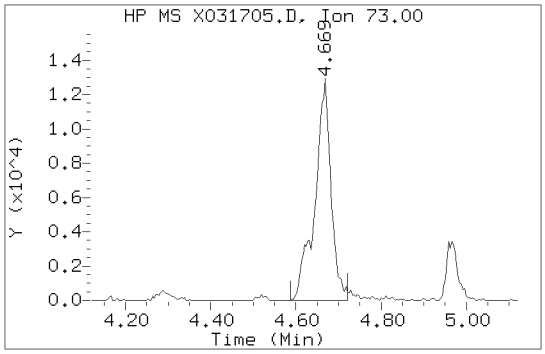
BEFORE

MASS
73
AREA
34081
HEIGHT
12932
30-Mar-2023
12:33
linh
pham



AFTER

MASS
73
AREA
34081
HEIGHT
12932
30-Mar-2023
12:41
linh
pham



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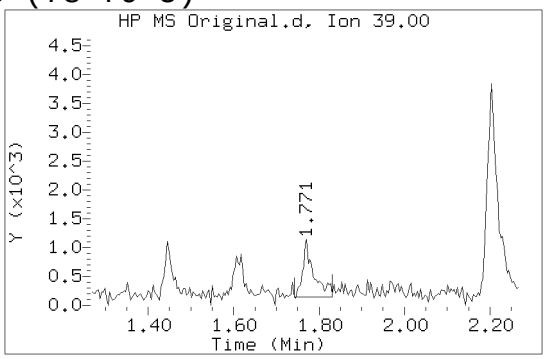
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

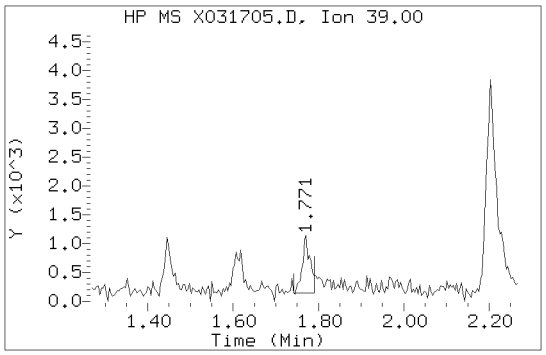
Isoprene (78-79-5)

Reason Code:

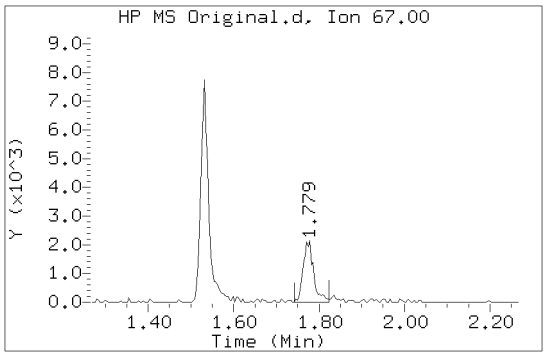
BEFORE
MASS
39
AREA
1808
HEIGHT
999
30-Mar-2023
12:33
linh
pham



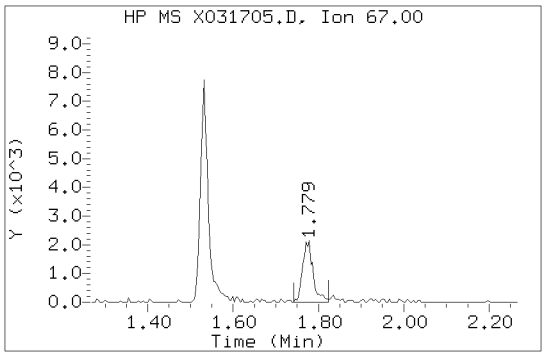
AFTER
MASS
39
AREA
1305
HEIGHT
999
30-Mar-2023
12:41
linh
pham



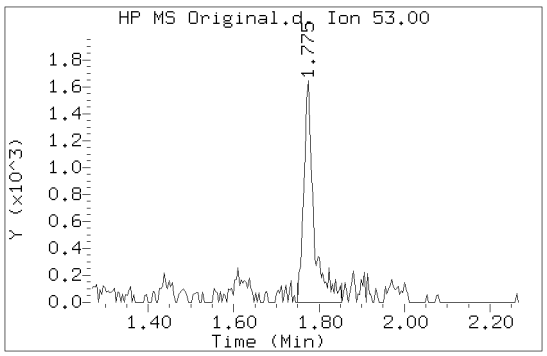
BEFORE
MASS
67
AREA
3708
HEIGHT
2160
30-Mar-2023
12:33
linh
pham



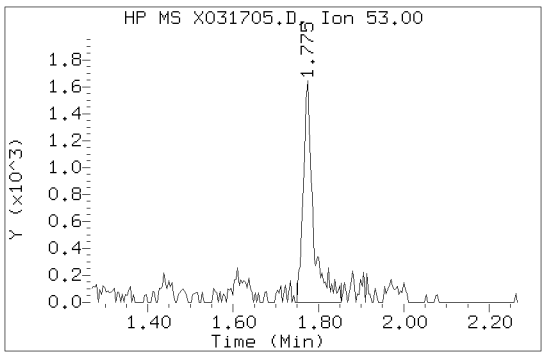
AFTER
MASS
67
AREA
3708
HEIGHT
2160
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
53
AREA
2743
HEIGHT
1645
30-Mar-2023
12:33
linh
pham



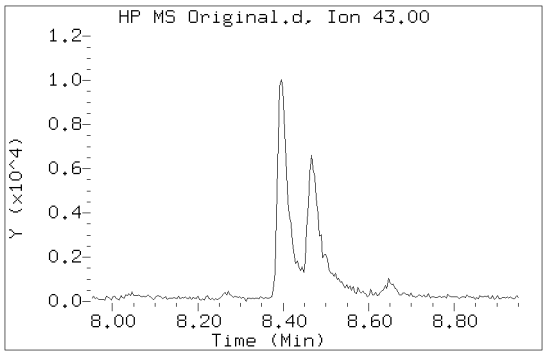
AFTER
MASS
53
AREA
2743
HEIGHT
1645
30-Mar-2023
12:41
linh
pham



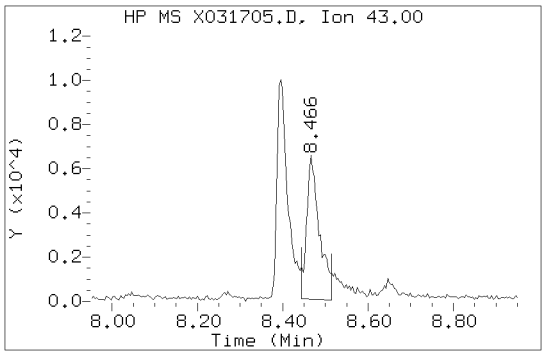
n-Amyl acetate (628-63-7)

Reason Code:

BEFORE
MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
43
AREA
13808
HEIGHT
6503
30-Mar-2023
12:41
linh
pham



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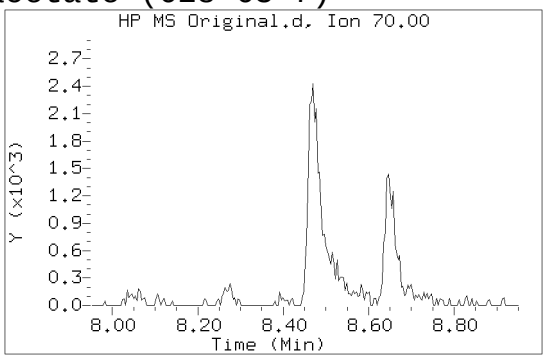
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

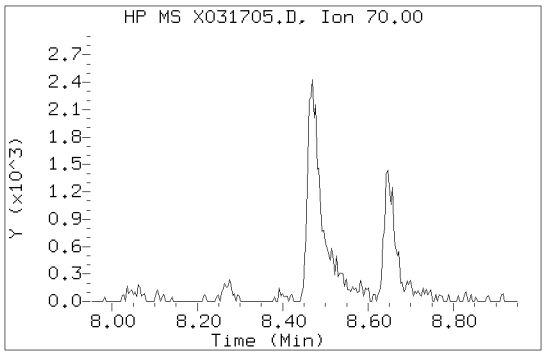
n-Amyl acetate (628-63-7)

Reason Code:

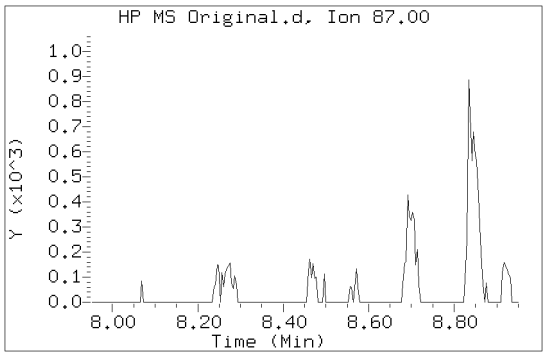
BEFORE
MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



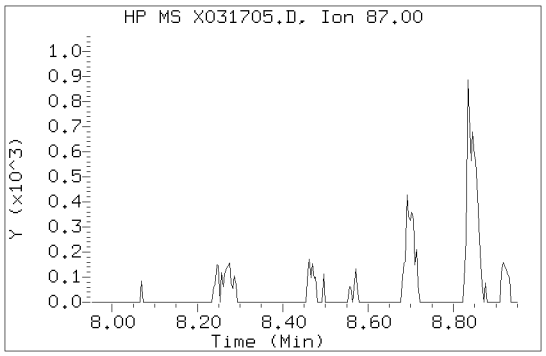
AFTER
MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



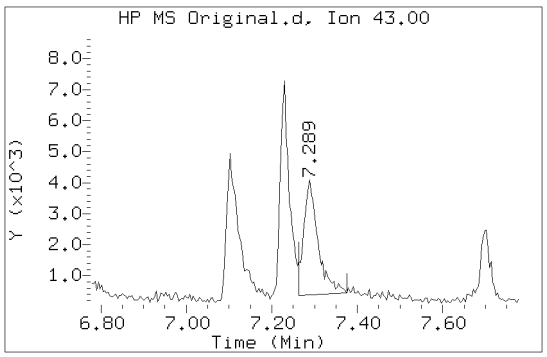
AFTER
MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



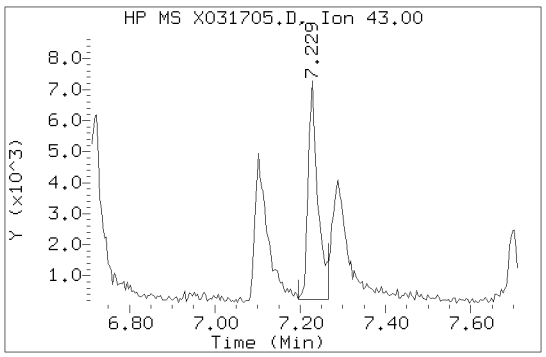
n-Butyl acetate (123-86-4)

Reason Code:

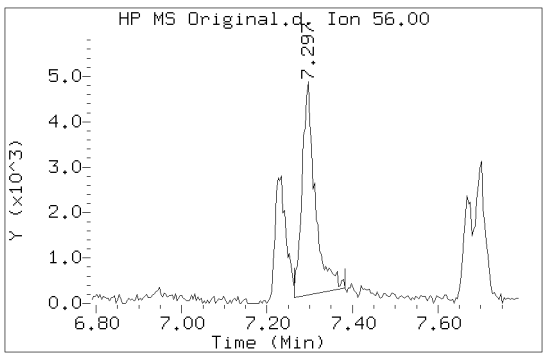
BEFORE
MASS
43
AREA
8781
HEIGHT
3708
30-Mar-2023
12:33
linh
pham



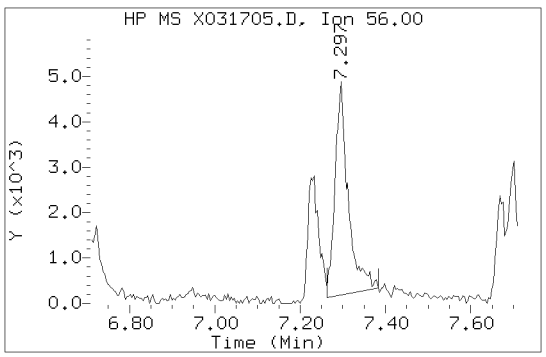
AFTER
MASS
43
AREA
11156
HEIGHT
7031
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
56
AREA
10025
HEIGHT
4692
30-Mar-2023
12:33
linh
pham



AFTER
MASS
56
AREA
10025
HEIGHT
4692
30-Mar-2023
12:41
linh
pham



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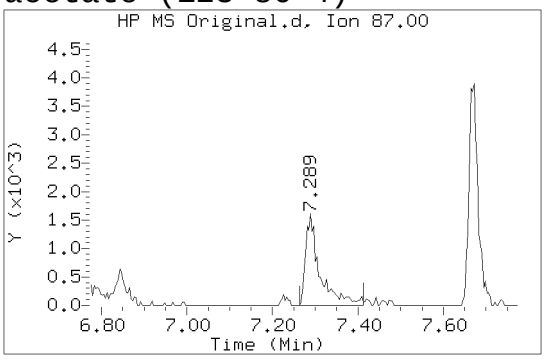
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

n-Butyl acetate (123-86-4)

Reason Code:

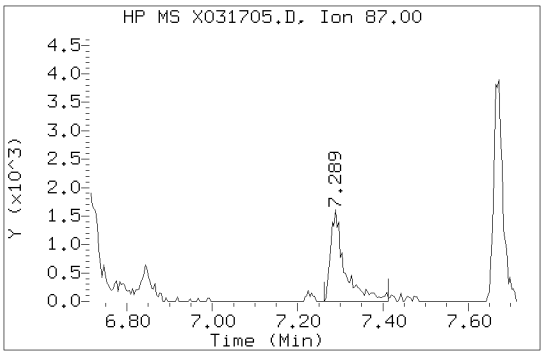
BEFORE

MASS
87
AREA
3729
HEIGHT
1617
30-Mar-2023
12:33
linh
pham



AFTER

MASS
87
AREA
3729
HEIGHT
1617
30-Mar-2023
12:41
linh
pham

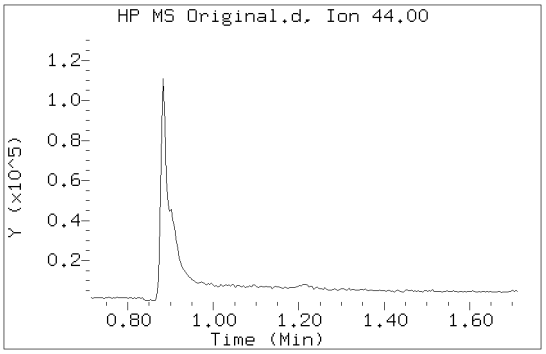


Acetaldehyde (75-07-0)

Reason Code:

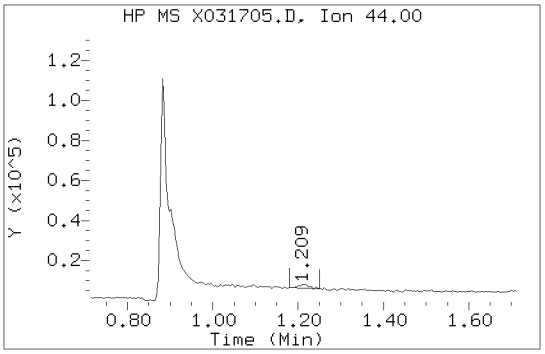
BEFORE

MASS
44
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



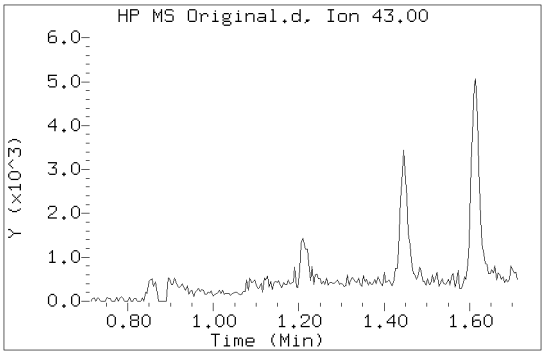
AFTER

MASS
44
AREA
3379
HEIGHT
1961
30-Mar-2023
12:41
linh
pham



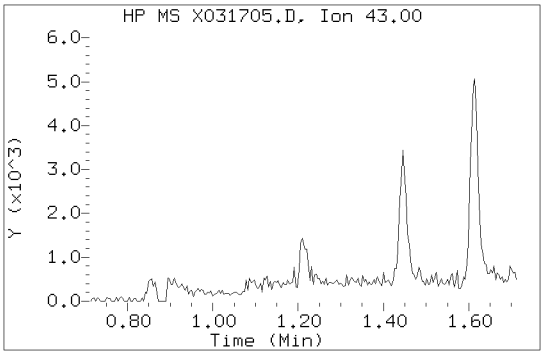
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



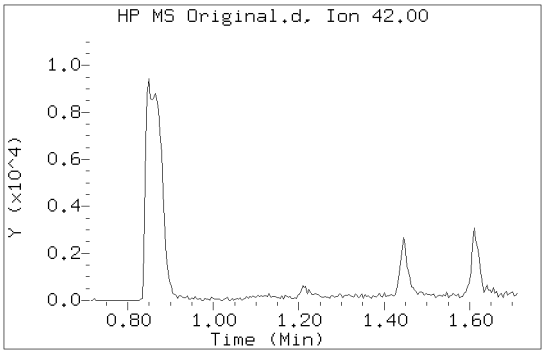
AFTER

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



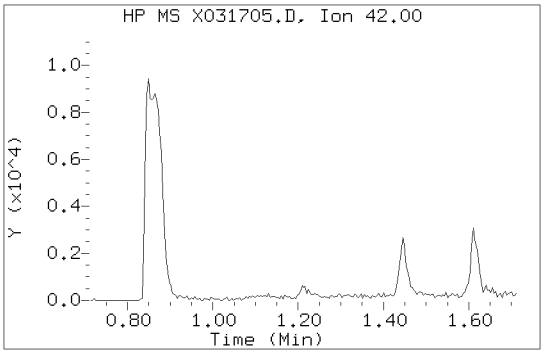
BEFORE

MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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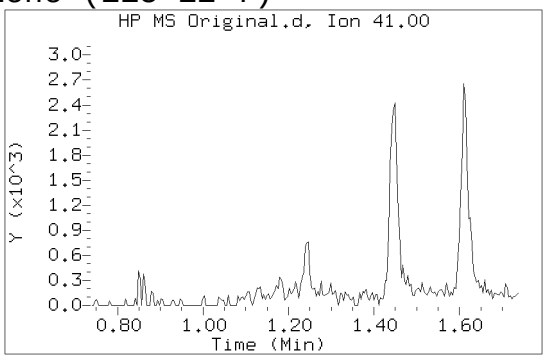
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

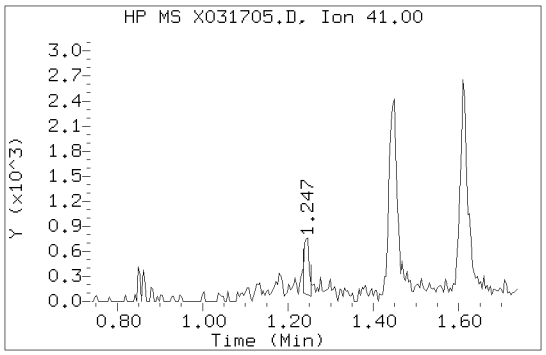
Isobutylene (115-11-7)

Reason Code:

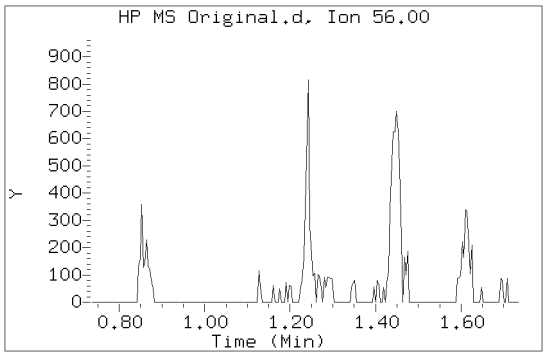
BEFORE
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



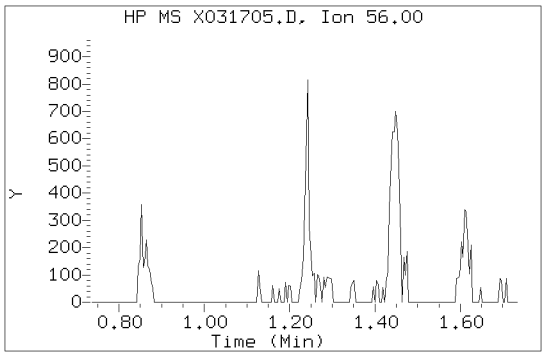
AFTER
MASS
41
AREA
607
HEIGHT
678
30-Mar-2023
12:41
linh
pham



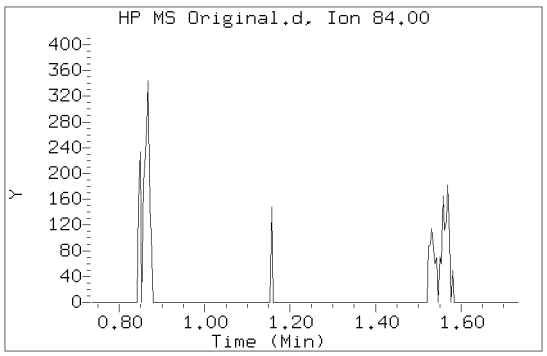
BEFORE
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



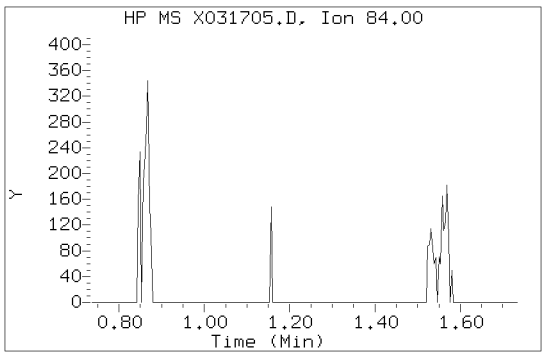
AFTER
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
84
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



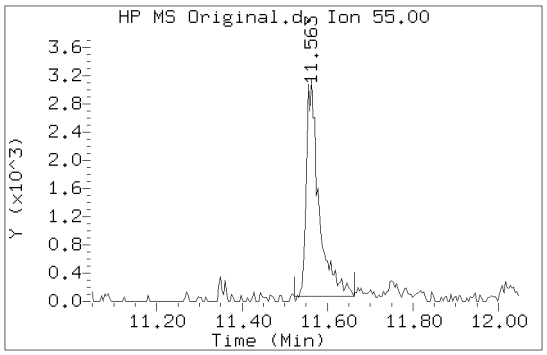
AFTER
MASS
84
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



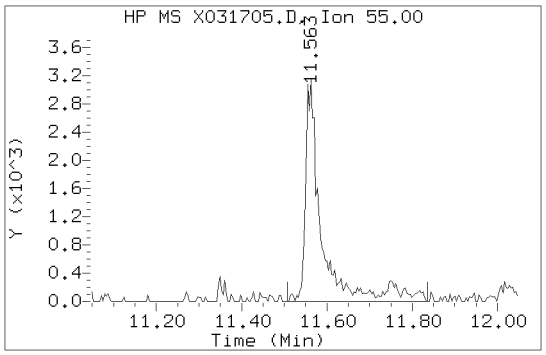
2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
55
AREA
6368
HEIGHT
3068
30-Mar-2023
12:33
linh
pham



AFTER
MASS
55
AREA
8380
HEIGHT
3142
30-Mar-2023
12:41
linh
pham



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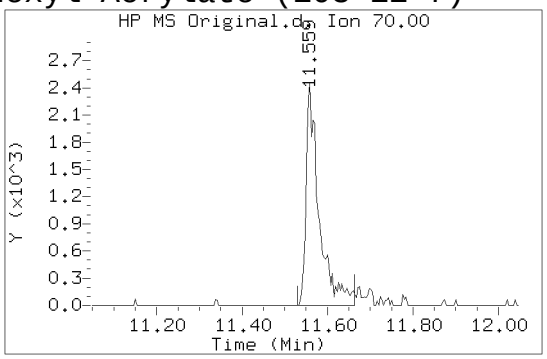
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

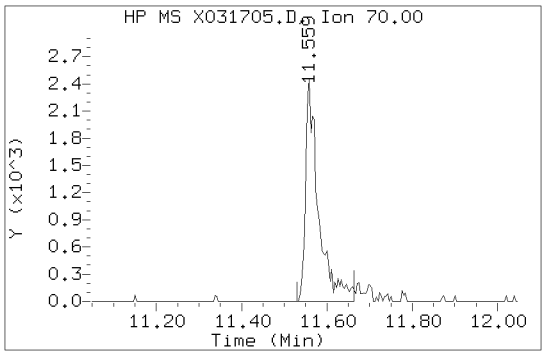
BEFORE

MASS
70
AREA
5276
HEIGHT
2446
30-Mar-2023
12:33
linh
pham



AFTER

MASS
70
AREA
5276
HEIGHT
2446
30-Mar-2023
12:41
linh
pham

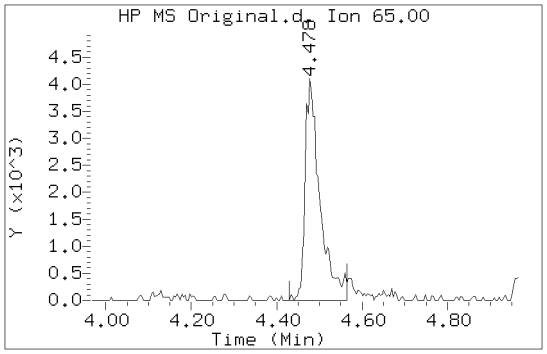


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

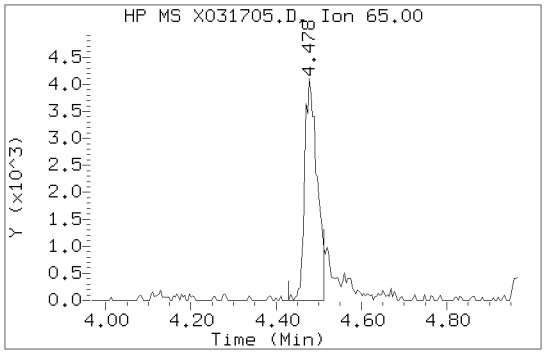
BEFORE

MASS
65
AREA
10036
HEIGHT
4103
30-Mar-2023
12:33
linh
pham



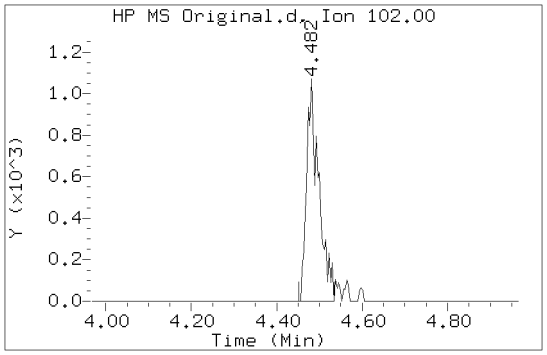
AFTER

MASS
65
AREA
8436
HEIGHT
4103
30-Mar-2023
12:41
linh
pham



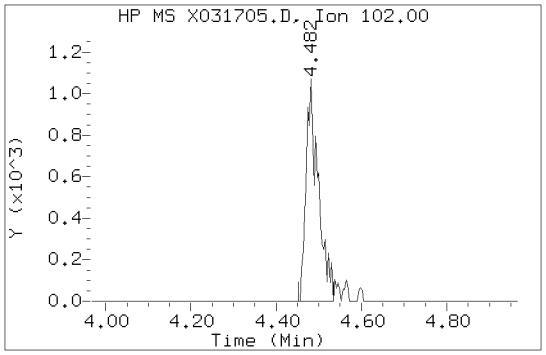
BEFORE

MASS
102
AREA
2124
HEIGHT
1071
30-Mar-2023
12:33
linh
pham



AFTER

MASS
102
AREA
2124
HEIGHT
1071
30-Mar-2023
12:41
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031706.D Page 1
Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031706.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 17-MAR-2023 13:14
Operator : PC Inst ID: voa6.i
Smp Info : VSTD005;VSTD005;1;5;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 12:53 Cal File: X031705.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.177	4.177	(1.000)	376873	50.0000	
2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	9602	5.00000	4.40
3	Chloromethane	50	1.077	1.077	(0.258)	15150	5.00000	4.37
4	Propionitrile	54	3.664	3.664	(0.877)	27505	50.0000	51.79(a)
5	Vinyl Chloride	62	1.141	1.141	(0.273)	12393	5.00000	4.17
6	Bromomethane	94	1.340	1.340	(0.321)	8312	5.00000	4.87(M)
7	Chloroethane	64	1.403	1.403	(0.336)	10038	5.00000	4.76(M)
8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	13046	5.00000	3.70
9	Acrolein	56	1.441	1.441	(0.345)	1386	10.0000	9.38(a)
10	Acetone	43	1.973	1.973	(0.472)	12577	10.0000	8.21
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	9752	5.00000	4.30
12	Isobutyl Alcohol	43	4.680	4.680	(1.120)	54306	100.000	105.61(a)
13	Acetonitrile	39	2.202	2.202	(0.527)	16647	50.0000	47.46(a)
14	Allyl Chloride	41	2.202	2.202	(0.527)	43211	5.00000	4.98(a)
15	Iodomethane	142	2.026	2.026	(0.485)	7971	10.0000	12.11(M)
16	Acrylonitrile	53	2.554	2.554	(0.611)	10967	10.0000	8.72
17	Methylene Chloride	84	2.307	2.307	(0.552)	22035	5.00000	4.45
18	Methyl tert-butyl ether	73	2.535	2.535	(0.607)	59748	5.00000	5.01
19	Carbon Disulfide	76	2.067	2.067	(0.495)	69325	10.0000	8.33
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.606)	14825	5.00000	4.64

21 Vinyl Acetate	43	3.004	3.004 (0.719)	101847	10.0000	10.58
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	26914	5.00000	4.65

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.775	1.775	(0.425)	4844	5.00000	4.68(aM)
	24 2-Butanone	43	3.596	3.596	(0.861)	13776	10.0000	10.20(M)
	25 Methacrylonitrile	41	3.833	3.833	(0.917)	17329	5.00000	4.98(a)
	26 2,2-Dichloropropane	77	3.506	3.506	(0.839)	21125	5.00000	4.40(M)
	27 cis-1,2-Dichloroethene	96	3.536	3.536	(0.847)	18351	5.00000	4.75
	28 Chloroform	83	3.907	3.907	(0.935)	31072	5.00000	4.84
	29 Bromochloromethane	128	3.795	3.795	(0.908)	10798	5.00000	4.93
$	30 Dibromofluoromethane	113	4.106	4.106	(0.983)	18353	5.00000	4.53
	31 1,1,1-Trichloroethane	97	4.084	4.084	(0.978)	20575	5.00000	4.28
	32 1,1-Dichloropropene	75	4.282	4.282	(0.863)	19579	5.00000	4.53(M)
	33 1,2-Dichloroethane	62	4.564	4.564	(0.919)	23720	5.00000	4.71
	34 Carbon Tetrachloride	117	4.267	4.267	(0.860)	19275	5.00000	4.66(M)
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.071)	22180	5.00000	6.39
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	605037	50.0000	
	37 Benzene	78	4.515	4.515	(0.909)	67288	5.00000	4.52
	38 Trichloroethene	130	5.212	5.212	(1.050)	17691	5.00000	4.41(a)
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	25204	5.00000	4.77(a)
	40 Methyl Methacrylate	41	5.613	5.613	(1.344)	16729	5.00000	4.97(a)
	41 2-Chloroethylvinyl ether	63	6.055	6.055	(1.220)	15816	10.0000	9.85(a)
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	18732	5.00000	4.67(a)
	43 2-Nitropropane	43	5.973	5.973	(1.430)	5600	5.00000	4.73(aH)
	44 Dibromomethane	93	5.553	5.553	(1.119)	12886	5.00000	5.03
	45 4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	37709	10.0000	10.29
	46 cis-1,3-Dichloropropene	75	6.157	6.157	(1.240)	31549	5.00000	4.72(a)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	578690	50.0000	
$	48 Toluene-d8	98	6.389	6.389	(0.833)	70347	5.00000	4.90(a)
	49 Ethyl Methacrylate	69	6.711	6.711	(1.352)	23861	5.00000	5.35(a)
	50 Toluene	91	6.449	6.449	(0.841)	70931	5.00000	4.67(a)
	51 trans-1,3-Dichloropropene	75	6.685	6.685	(1.347)	26326	5.00000	4.75(a)
	52 2-Hexanone	43	7.094	7.094	(0.925)	25496	10.0000	10.14
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	16600	5.00000	5.02
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	32551	5.00000	4.96(a)
	55 Dibromochloromethane	129	7.176	7.176	(0.936)	22139	5.00000	4.74(a)
	56 Tetrachloroethene	164	6.929	6.929	(0.904)	12717	5.00000	4.17(a)
	57 1,2-Dibromoethane	107	7.263	7.263	(0.947)	20691	5.00000	5.07
	58 1-Chlorohexane	55	7.697	7.697	(1.550)	10247	5.00000	5.62
	59 Chlorobenzene	112	7.694	7.694	(1.003)	51496	5.00000	4.74(a)
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	19284	5.00000	4.61(a)
	61 Ethylbenzene	106	7.802	7.802	(1.018)	23242	5.00000	4.35(a)
	62 m,p-Xylenes	106	7.907	7.907	(1.031)	58404	10.0000	8.69(a)
	63 o-Xylene	106	8.245	8.245	(1.075)	31125	5.00000	4.60(a)
	64 Styrene	104	8.267	8.267	(1.078)	52448	5.00000	4.70(a)
	66 Bromoform	173	8.413	8.413	(1.097)	15137	5.00000	4.69(a)
	67 Isopropylbenzene	105	8.563	8.563	(1.117)	65035	5.00000	4.20(a)
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	28771	5.00000	5.12
$	69 4-Bromofluorobenzene	95	8.695	8.695	(1.134)	32222	5.00000	5.72
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	322470	50.0000	
	71 1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	20798	5.00000	4.92(a)
	72 trans-1,4-Dichloro-2-butene	53	8.897	8.897	(1.160)	5471	5.00000	4.73(a)
	73 n-Propylbenzene	91	8.916	8.916	(0.923)	72647	5.00000	4.05(a)
	74 Bromobenzene	156	8.811	8.811	(0.912)	24742	5.00000	4.77(a)
	75 1,3,5-Trimethylbenzene	105	9.069	9.069	(0.939)	59046	5.00000	4.24(a)

76	2-Chlorotoluene	91	8.976	8.976 (0.929)	56383	5.00000	4.67(a)
77	4-Chlorotoluene	91	9.073	9.073 (0.939)	62362	5.00000	4.59(a)

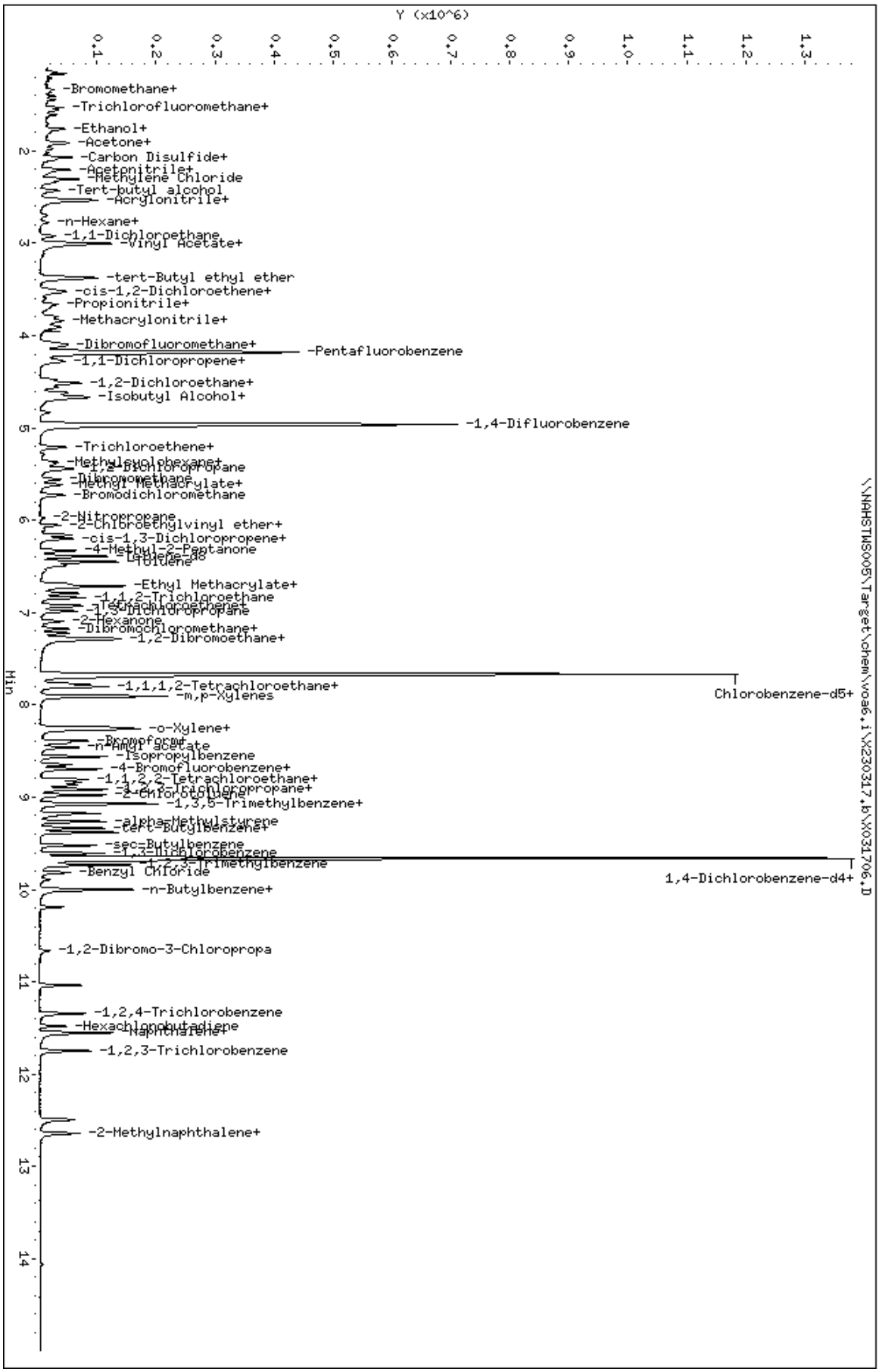
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	44588	5.00000	4.02(a)
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	62250	5.00000	4.36(a)
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	55893	5.00000	3.72(a)
82	p-Isopropyltoluene	119	9.650	9.650	(0.999)	53227	5.00000	3.97(a)
83	1,3-Dichlorobenzene	146	9.609	9.609	(0.995)	40801	5.00000	4.55(a)
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	45850	5.00000	4.75(a)
86	Benzyl Chloride	91	9.812	9.812	(1.280)	37307	5.00000	5.48(M)
87	n-Butylbenzene	91	9.999	9.999	(1.035)	41738	5.00000	3.86(a)
88	1,2-Dichlorobenzene	146	9.995	9.995	(1.035)	41157	5.00000	4.58(a)
89	1,2-Dibromo-3-Chloropropane	155	10.666	10.666	(1.104)	4699	5.00000	5.88
90	1,2,4-Trichlorobenzene	180	11.341	11.341	(1.174)	28955	5.00000	4.41(aM)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	7780	5.00000	4.88(a)
92	Naphthalene	128	11.551	11.551	(1.196)	74713	5.00000	4.74(a)
93	1,2,3-Trichlorobenzene	180	11.746	11.746	(1.216)	28620	5.00000	4.56(a)
146	Methyl acetate	43	2.239	2.239	(0.536)	11068	5.00000	5.10
138	Freon TF	101	1.913	1.913	(0.458)	6618	5.00000	4.41(a)
141	Cyclohexane	56	4.117	4.117	(0.986)	11367	5.00000	4.58(a)
142	Tetrahydrofuran	42	3.851	3.851	(0.922)	6657	10.0000	10.81
147	Methylcyclohexane	55	5.396	5.396	(1.087)	33923	5.00000	4.06(aM)
135	1,4-Dioxane	88	5.606	5.606	(1.342)	5347	100.000	106.92
132	n-Butanol	56	5.287	5.287	(1.266)	6157	100.000	92.87(a)
131	Methyl Acrylate	55	3.709	3.709	(0.888)	19084	5.00000	4.88(aM)
133	Ethyl Acrylate	55	5.396	5.396	(1.292)	32422	5.00000	3.94(M)
136	n-Hexane	57	2.775	2.775	(0.664)	5476	5.00000	2.82(aM)
139	Diethyl ether	59	1.760	1.760	(0.421)	12349	5.00000	4.89(aM)
148	Tert-butyl alcohol	59	2.431	2.431	(0.582)	40924	100.000	103.69
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	22330	100.000	105.88(T)
156	Diisopropyl ether	45	3.000	3.000	(0.718)	58483	5.00000	4.99(Ta)
160	2-Methylnaphthalene	142	12.642	12.642	(1.308)	34409	5.00000	4.42
166	1,2,3-Trimethylbenzene	105	9.733	9.733	(1.007)	71266	5.00000	4.60(a)
167	Ethanol	45	1.700	1.700	(0.407)	3738	100.000	110.59
172	tert-Butyl formate	59	4.620	4.620	(1.106)	30990	10.0000	10.09(M)
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	42905	100.000	96.21(M)
174	tert-Amyl methyl ether	73	4.665	4.665	(1.117)	70640	5.00000	5.23
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.808)	62777	5.00000	5.12
176	tert-Amyl alcohol	59	4.620	4.620	(1.106)	32276	100.000	100.07(M)
151	4-Methyl-2-pentanol	45	6.715	6.715	(1.353)	90297	100.000	102.24(M)
180	1-Methylnaphthalene	142	12.642	12.642	(1.308)	34409	5.00000	(a)
140	1,3-Butadiene	54	1.163	1.163	(0.279)	10056	5.00000	3.93(a)
152	Amyl alcohol	42	6.925	6.925	(0.903)	9340	100.000	89.55
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	22490	5.00000	4.81(M)
159	Propylene oxide	43	1.805	1.805	(0.432)	2716	10.0000	11.55
161	3-Methyl-1-butanol	55	6.918	6.918	(0.902)	9604	100.000	95.09(M)
162	Butyl acrylate	55	8.256	8.256	(1.077)	38847	5.00000	4.54(a)
182	Epichlorohydrin	57	6.104	6.104	(1.230)	6493	20.0000	18.81
M 94	1,2-Dichloroethylene (total)	96				33176	10.0000	(a)
130	Ethyl Acetate	43	3.664	3.664	(0.877)	21420	5.00000	5.50
134	Cyclohexanone	55	8.646	8.646	(0.895)	19881	100.000	103.80(a)
185	Isoprene	39	1.771	1.771	(0.424)	3330	5.00000	4.60(a)
188	Isopropyl acetate	43	4.680	4.680	(0.943)	55812	5.00000	5.09
187	n-Amyl acetate	43	8.458	8.458	(1.103)	37411	5.00000	5.20
189	n-Butyl acetate	43	7.218	7.218	(0.941)	30448	5.00000	4.96(aH)

150 Allyl alcohol	57	2.775	2.775 (0.664)	7188	100.000	71.11(M)
194 Acetaldehyde	44	1.208	1.208 (0.289)	4487	20.0000	19.21(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
195 Methyl Amyl Ketone	43	8.387	8.387	(1.094)	44574	5.00000	4.87(a)
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	32499	5.00000	4.28(a)
202 Isobutylene	41	1.238	1.238	(0.297)	1462	5.00000	4.66(aM)
205 2-Ethylhexyl Acrylate	55	11.555	11.555	(1.196)	18783	5.00000	3.94(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Sample Info: VSTD005;VSTD005;1;5;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Bromomethane (74-83-9)

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30-Mar-2023
12:33
linh
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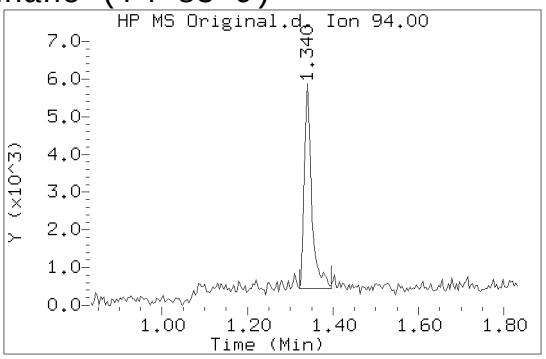

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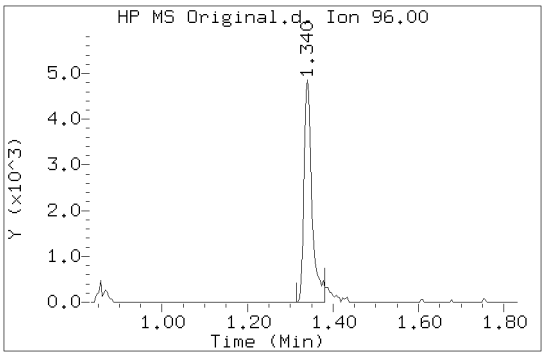

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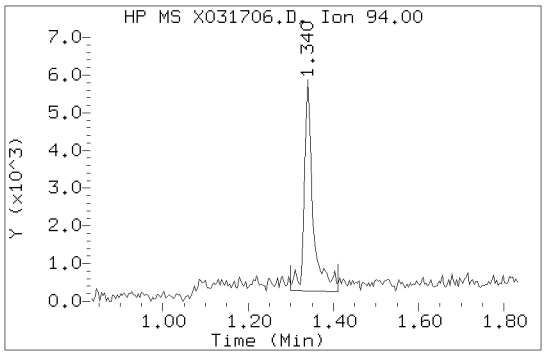

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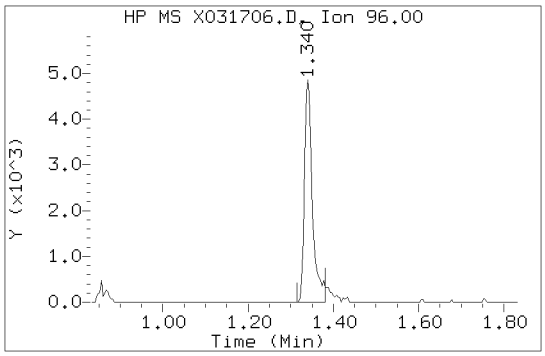

Chloroethane (75-00-3)

BEFORE

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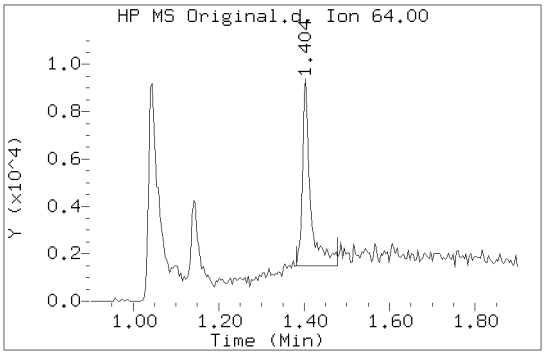

BEFORE

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30-Mar-2023
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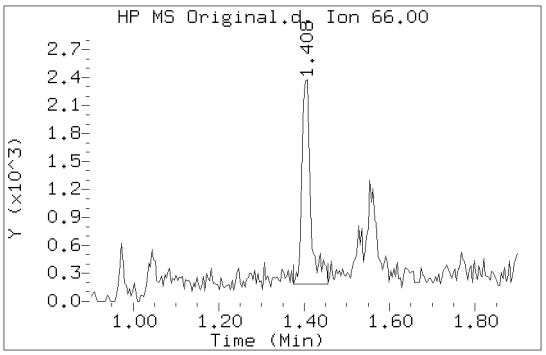

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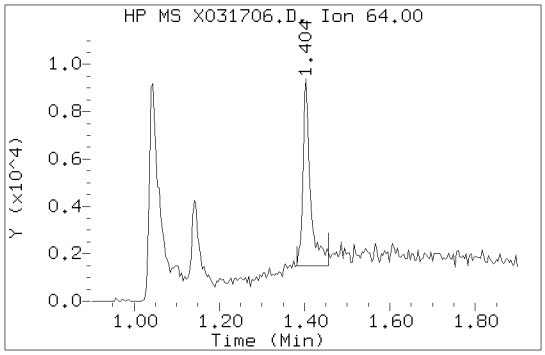

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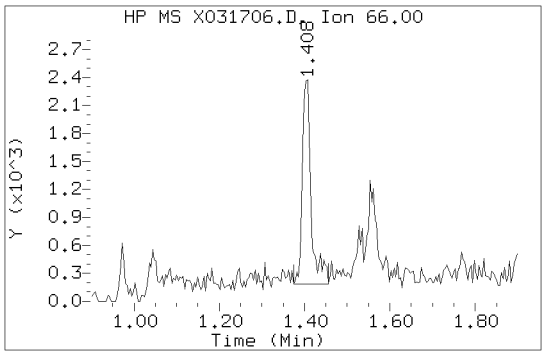

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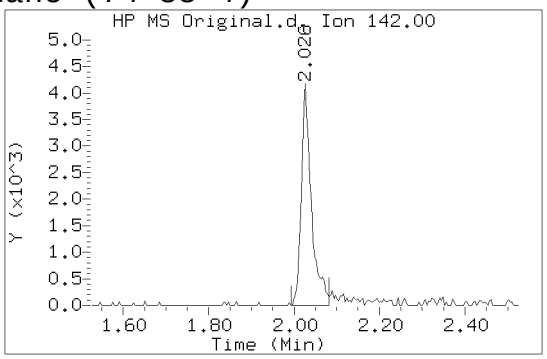
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Iodomethane (74-88-4)

Reason Code:

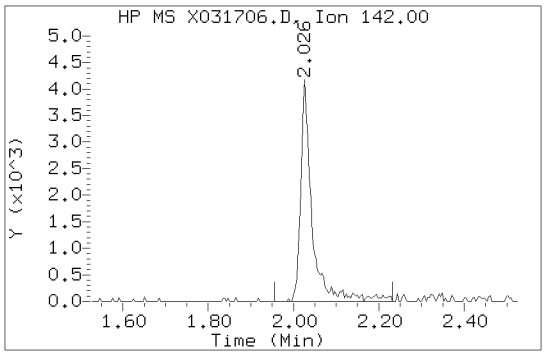
BEFORE

MASS
142
AREA
7012
HEIGHT
4175
30-Mar-2023
12:33
linh
pham



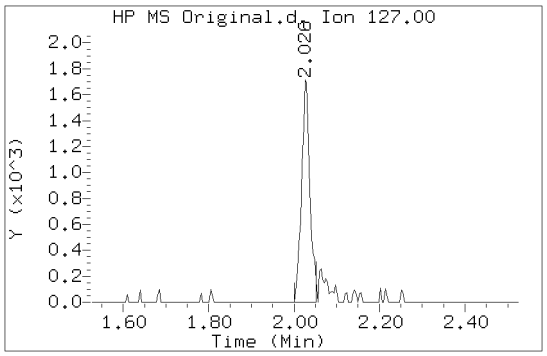
AFTER

MASS
142
AREA
7971
HEIGHT
4175
30-Mar-2023
12:41
linh
pham



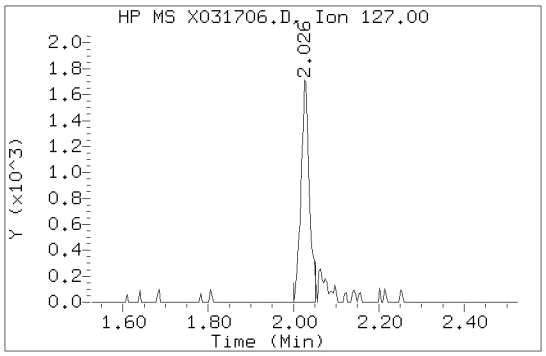
BEFORE

MASS
127
AREA
2404
HEIGHT
1714
30-Mar-2023
12:33
linh
pham



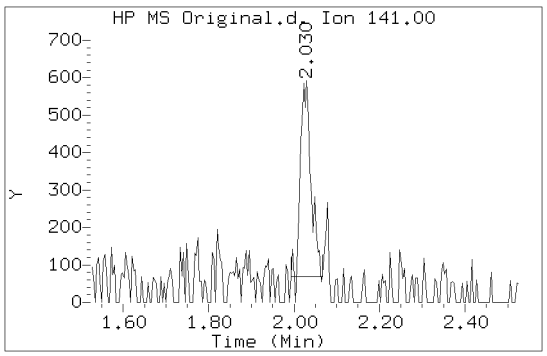
AFTER

MASS
127
AREA
2404
HEIGHT
1714
30-Mar-2023
12:41
linh
pham



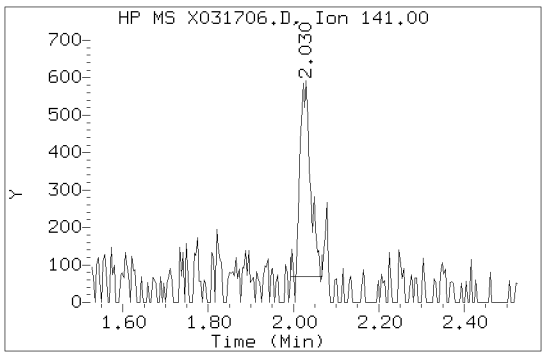
BEFORE

MASS
141
AREA
906
HEIGHT
523
30-Mar-2023
12:33
linh
pham



AFTER

MASS
141
AREA
906
HEIGHT
523
30-Mar-2023
12:41
linh
pham

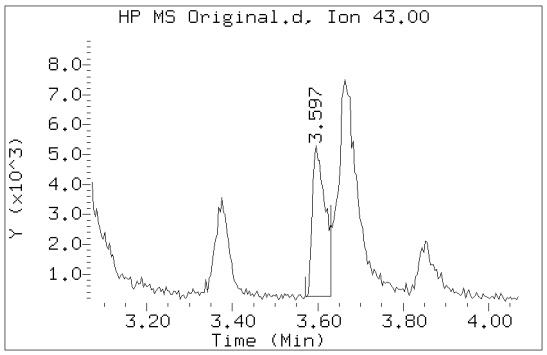


2-Butanone (78-93-3)

Reason Code:

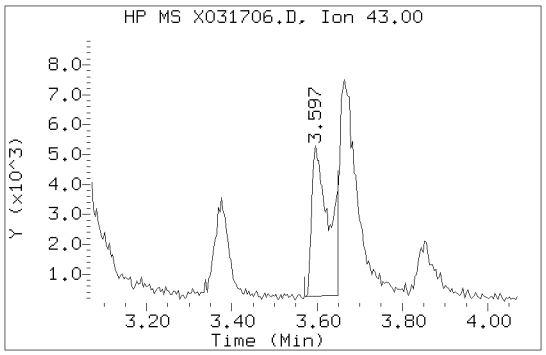
BEFORE

MASS
43
AREA
10492
HEIGHT
5029
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
AREA
13776
HEIGHT
5026
30-Mar-2023
12:41
linh
pham



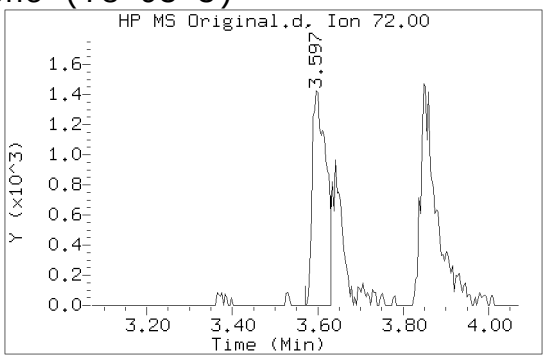
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031706.D
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

2-Butanone (78-93-3)

Reason Code:

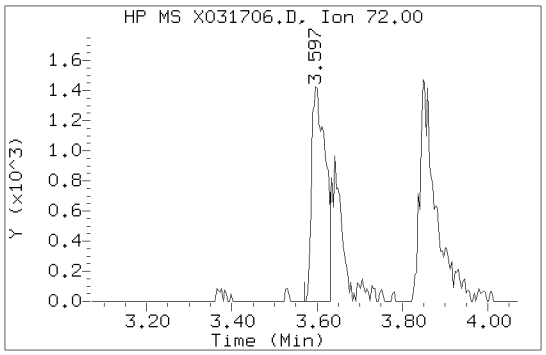
BEFORE

MASS
72
AREA
3197
HEIGHT
1426
30-Mar-2023
12:33
linh
pham



AFTER

MASS
72
AREA
3197
HEIGHT
1426
30-Mar-2023
12:41
linh
pham

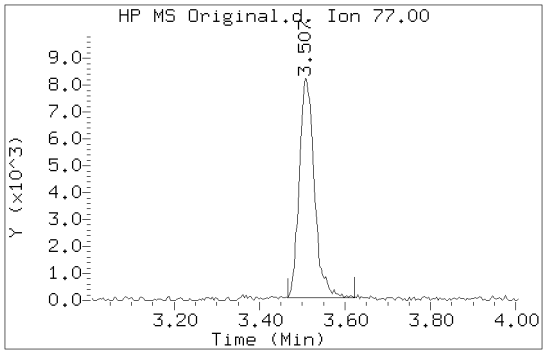


2,2-Dichloropropane (594-20-7)

Reason Code:

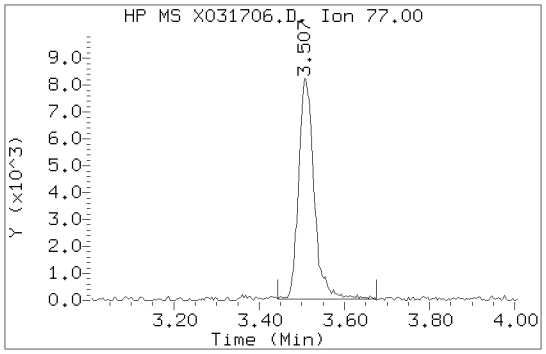
BEFORE

MASS
77
AREA
20361
HEIGHT
8142
30-Mar-2023
12:33
linh
pham



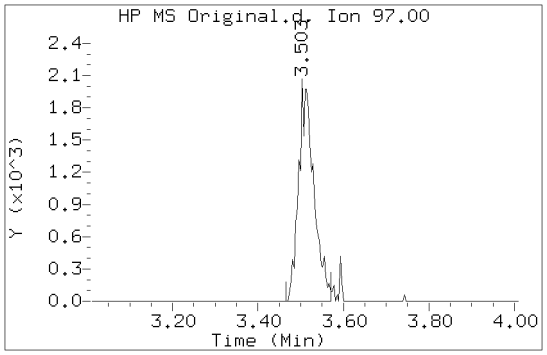
AFTER

MASS
77
AREA
21125
HEIGHT
8195
30-Mar-2023
12:41
linh
pham



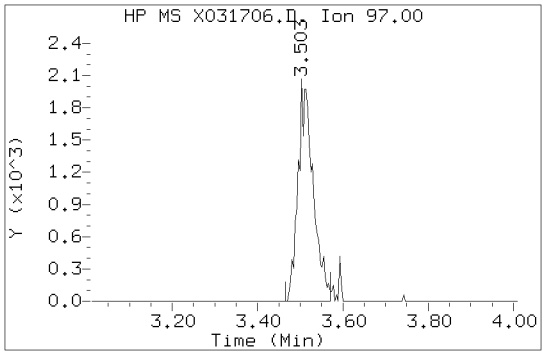
BEFORE

MASS
97
AREA
5143
HEIGHT
2069
30-Mar-2023
12:33
linh
pham



AFTER

MASS
97
AREA
5143
HEIGHT
2069
30-Mar-2023
12:41
linh
pham

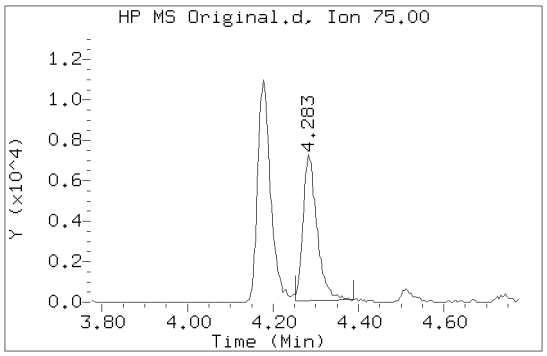


1,1-Dichloropropene (563-58-6)

Reason Code:

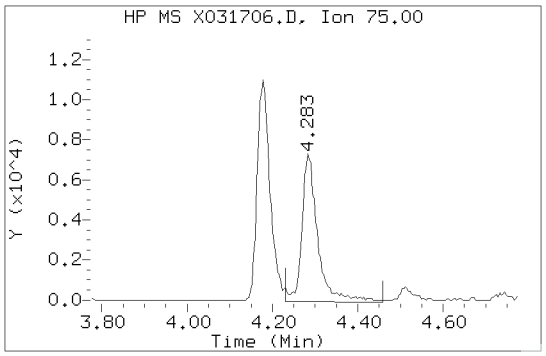
BEFORE

MASS
75
AREA
16689
HEIGHT
7223
30-Mar-2023
12:33
linh
pham



AFTER

MASS
75
AREA
19579
HEIGHT
7385
30-Mar-2023
12:41
linh
pham



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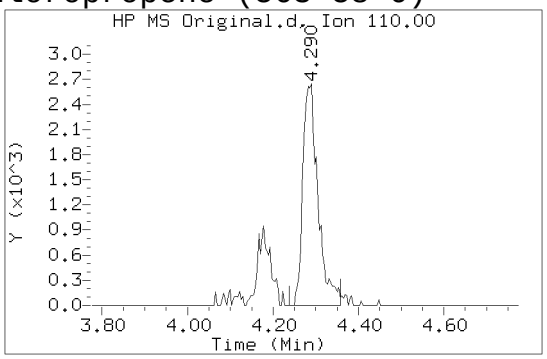
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

1,1-Dichloropropene (563-58-6)

Reason Code:

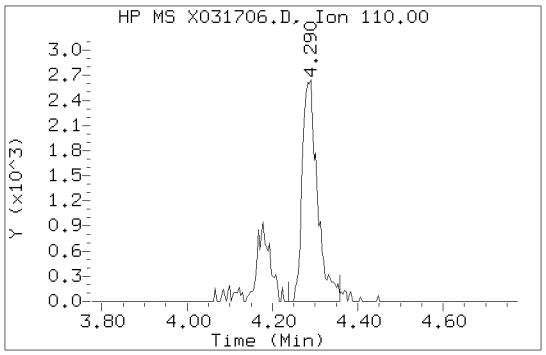
BEFORE

MASS
110
AREA
6613
HEIGHT
2648
30-Mar-2023
12:33
linh
pham



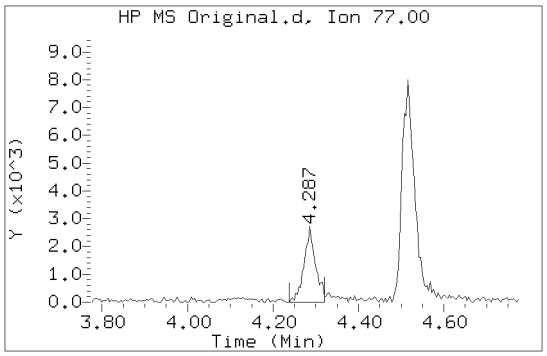
AFTER

MASS
110
AREA
6613
HEIGHT
2648
30-Mar-2023
12:41
linh
pham



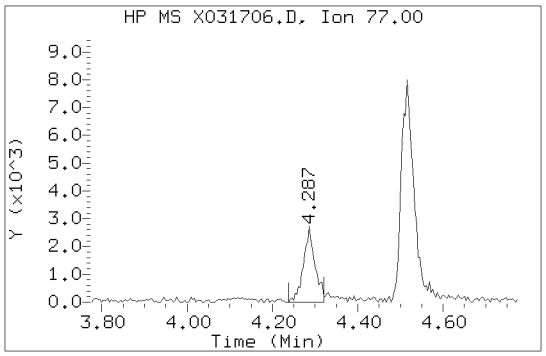
BEFORE

MASS
77
AREA
5175
HEIGHT
2721
30-Mar-2023
12:33
linh
pham



AFTER

MASS
77
AREA
5175
HEIGHT
2721
30-Mar-2023
12:41
linh
pham

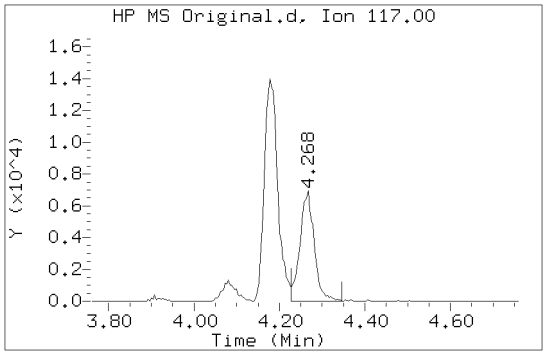


Carbon Tetrachloride (56-23-5)

Reason Code:

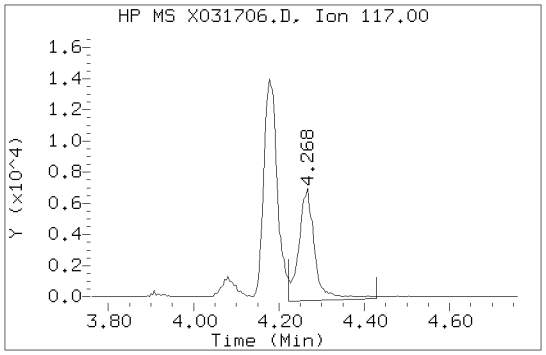
BEFORE

MASS
117
AREA
16351
HEIGHT
6971
30-Mar-2023
12:33
linh
pham



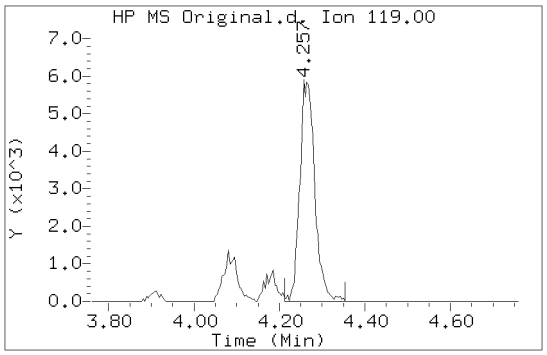
AFTER

MASS
117
AREA
19275
HEIGHT
7216
30-Mar-2023
12:41
linh
pham



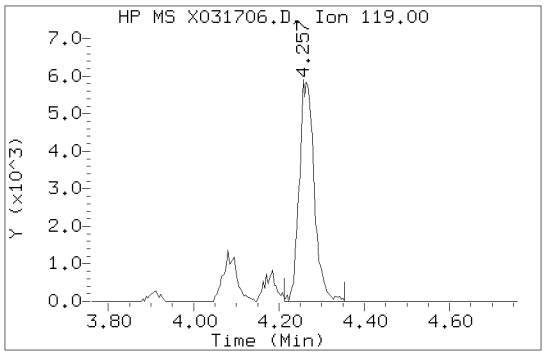
BEFORE

MASS
119
AREA
14616
HEIGHT
5908
30-Mar-2023
12:33
linh
pham



AFTER

MASS
119
AREA
14616
HEIGHT
5908
30-Mar-2023
12:41
linh
pham



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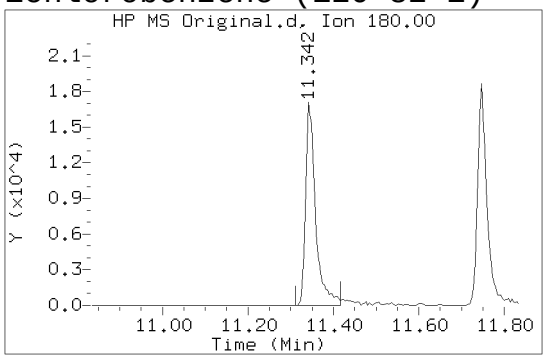
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

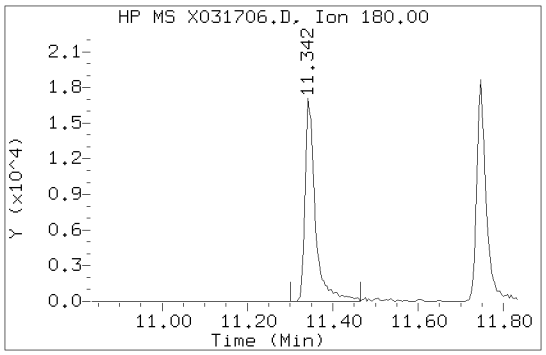
BEFORE

MASS
180
AREA
28022
HEIGHT
17112
30-Mar-2023
12:33
linh
pham



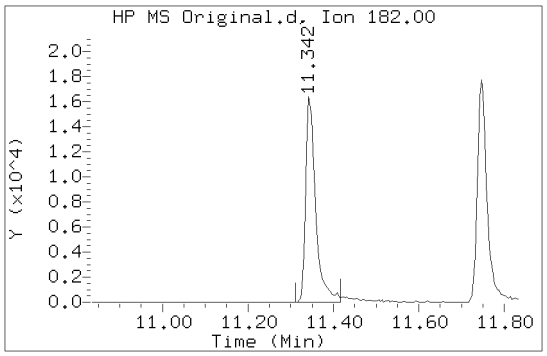
AFTER

MASS
180
AREA
28955
HEIGHT
17112
30-Mar-2023
12:41
linh
pham



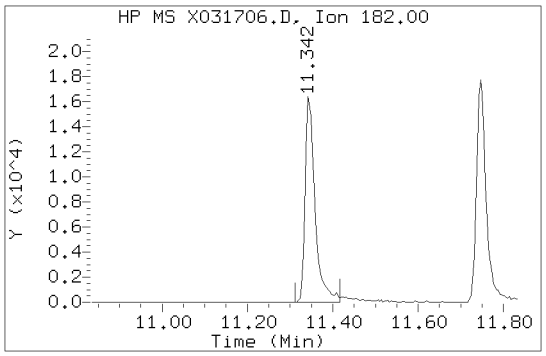
BEFORE

MASS
182
AREA
27031
HEIGHT
16424
30-Mar-2023
12:33
linh
pham



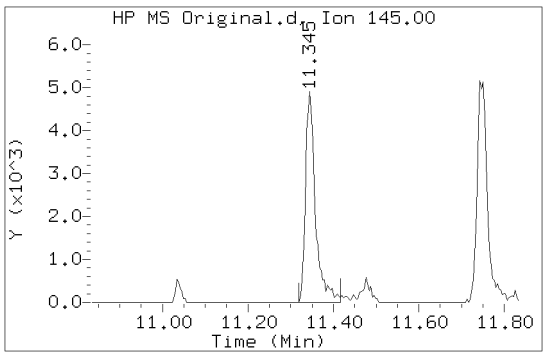
AFTER

MASS
182
AREA
27031
HEIGHT
16424
30-Mar-2023
12:41
linh
pham



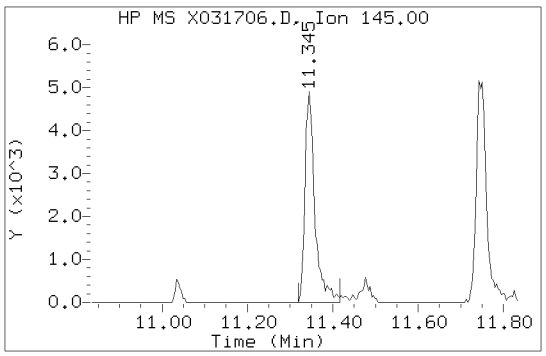
BEFORE

MASS
145
AREA
8041
HEIGHT
4909
30-Mar-2023
12:33
linh
pham



AFTER

MASS
145
AREA
8041
HEIGHT
4909
30-Mar-2023
12:41
linh
pham

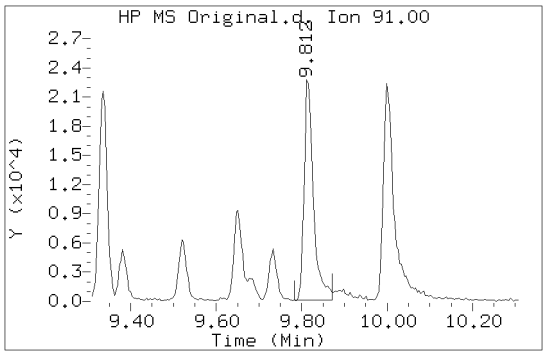


Benzyl Chloride (100-44-7)

Reason Code:

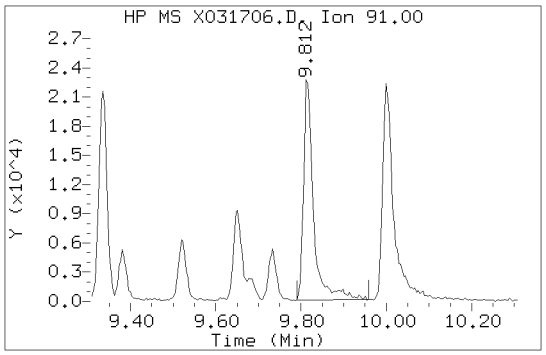
BEFORE

MASS
91
AREA
34993
HEIGHT
22665
30-Mar-2023
12:33
linh
pham



AFTER

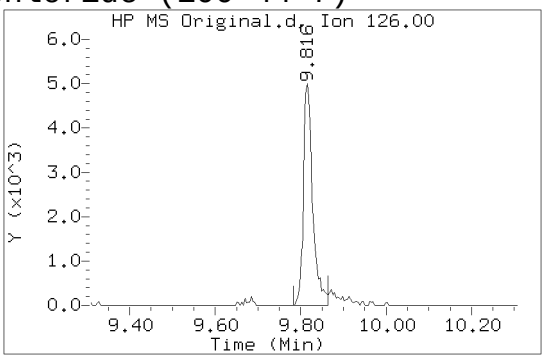
MASS
91
AREA
37307
HEIGHT
22649
30-Mar-2023
12:41
linh
pham



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031706.D
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

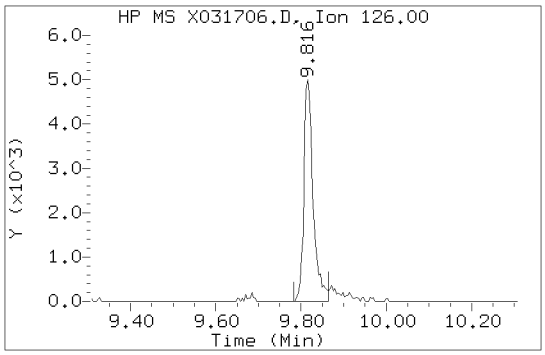
Benzyl Chloride (100-44-7)

BEFORE
MASS
126
AREA
7737
HEIGHT
5001
30-Mar-2023
12:33
linh
pham

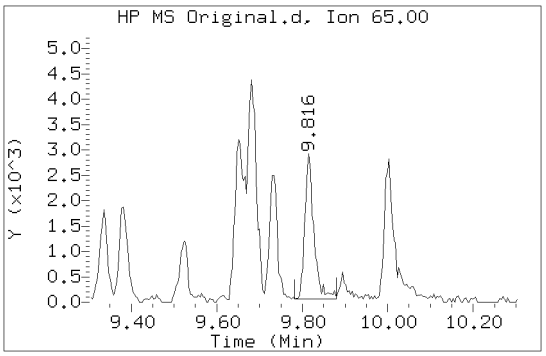


Reason Code:

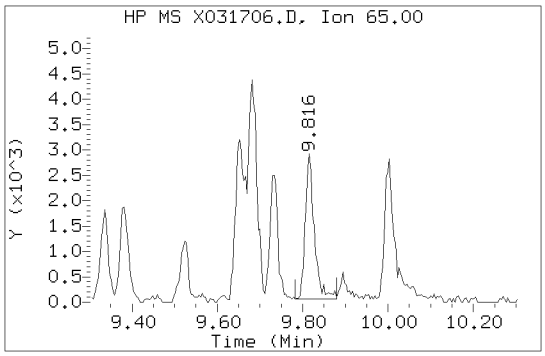
AFTER
MASS
126
AREA
7737
HEIGHT
5001
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
65
AREA
4286
HEIGHT
2873
30-Mar-2023
12:33
linh
pham

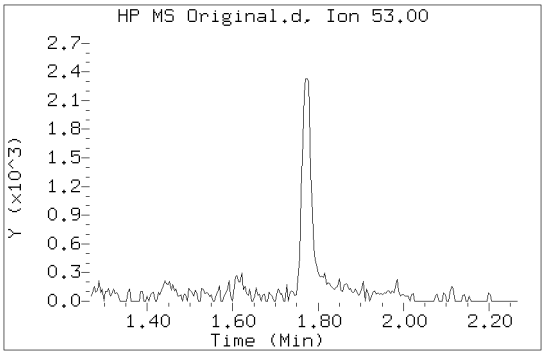


AFTER
MASS
65
AREA
4286
HEIGHT
2873
30-Mar-2023
12:41
linh
pham



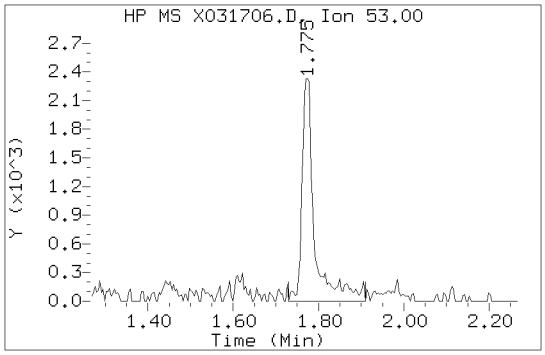
Chloroprene (126-99-8)

BEFORE
MASS
53
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham

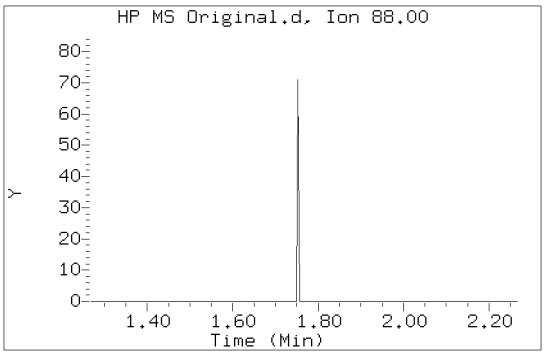


Reason Code:

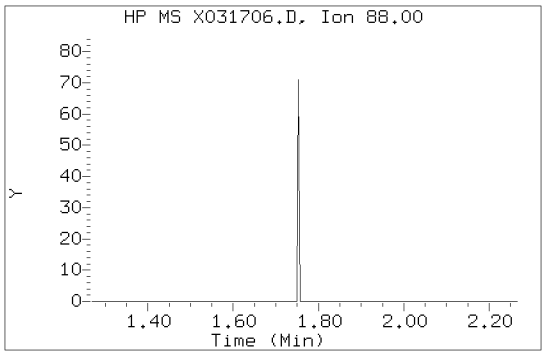
AFTER
MASS
53
AREA
4844
HEIGHT
2327
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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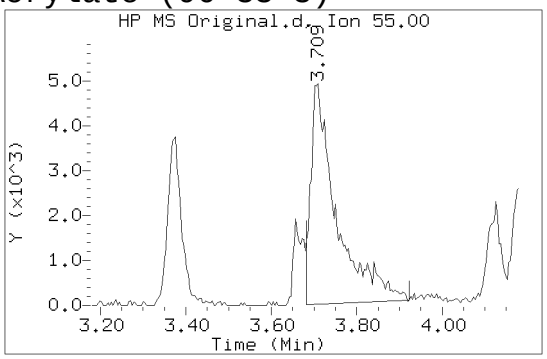
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Methyl Acrylate (96-33-3)

Reason Code:

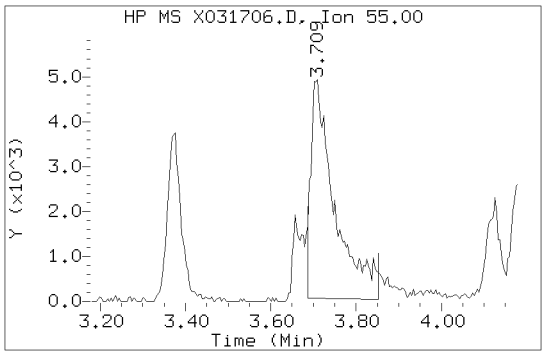
BEFORE

MASS
55
AREA
20445
HEIGHT
4902
30-Mar-2023
12:33
linh
pham



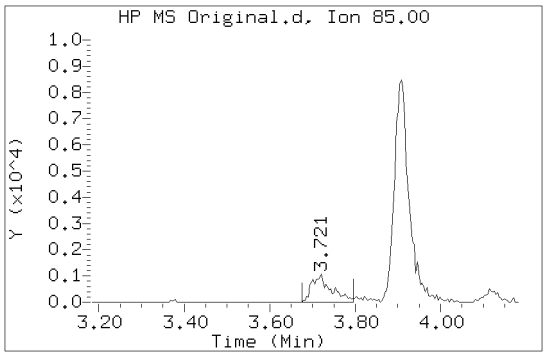
AFTER

MASS
55
AREA
19084
HEIGHT
4863
30-Mar-2023
12:41
linh
pham



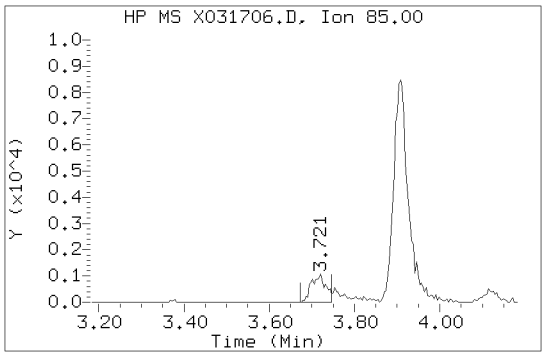
BEFORE

MASS
85
AREA
3334
HEIGHT
1090
30-Mar-2023
12:33
linh
pham



AFTER

MASS
85
AREA
2528
HEIGHT
1090
30-Mar-2023
12:41
linh
pham

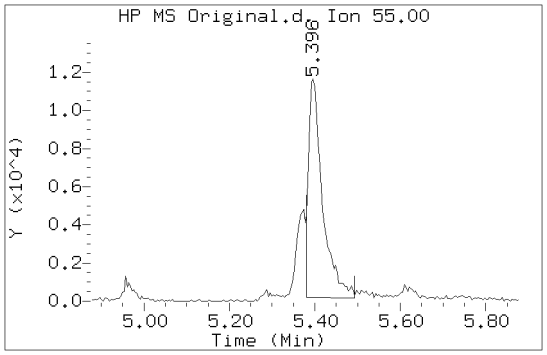


Ethyl Acrylate (140-88-5)

Reason Code:

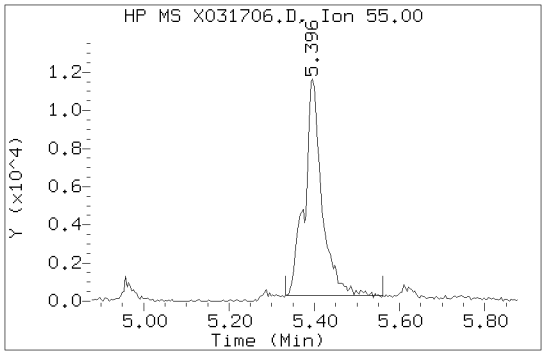
BEFORE

MASS
55
AREA
26481
HEIGHT
11465
30-Mar-2023
12:33
linh
pham



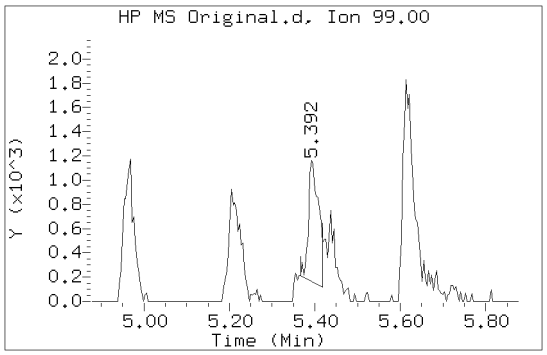
AFTER

MASS
55
AREA
32422
HEIGHT
11347
30-Mar-2023
12:41
linh
pham



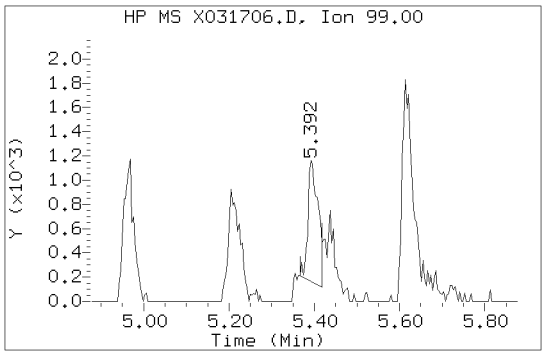
BEFORE

MASS
99
AREA
1678
HEIGHT
997
30-Mar-2023
12:33
linh
pham



AFTER

MASS
99
AREA
1678
HEIGHT
997
30-Mar-2023
12:41
linh
pham



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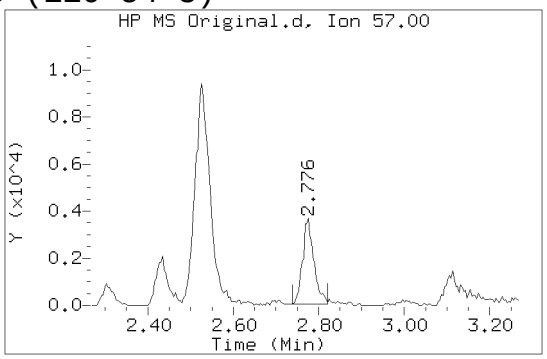
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

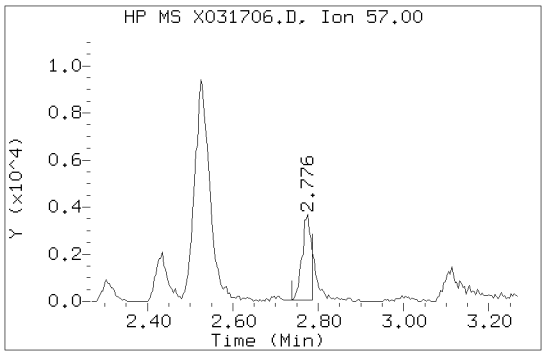
n-Hexane (110-54-3)

Reason Code:

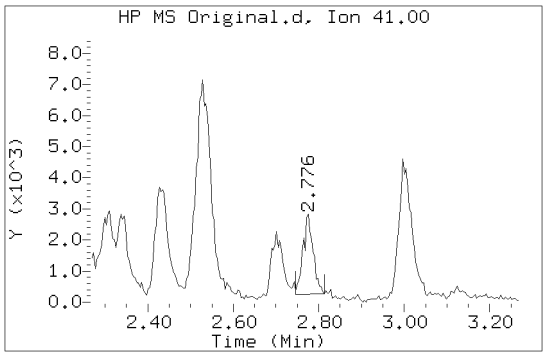
BEFORE
MASS
57
AREA
6747
HEIGHT
3646
30-Mar-2023
12:33
linh
pham



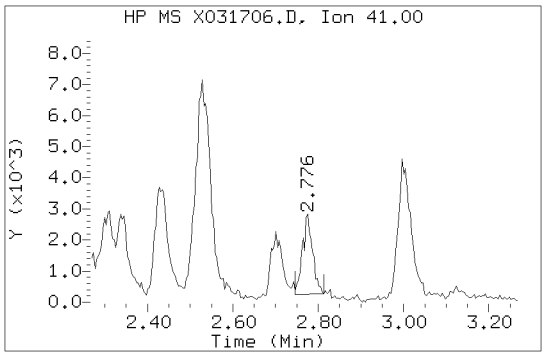
AFTER
MASS
57
AREA
5476
HEIGHT
3646
30-Mar-2023
12:41
linh
pham



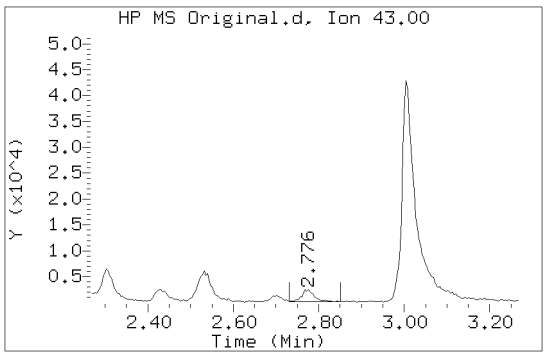
BEFORE
MASS
41
AREA
4280
HEIGHT
2559
30-Mar-2023
12:33
linh
pham



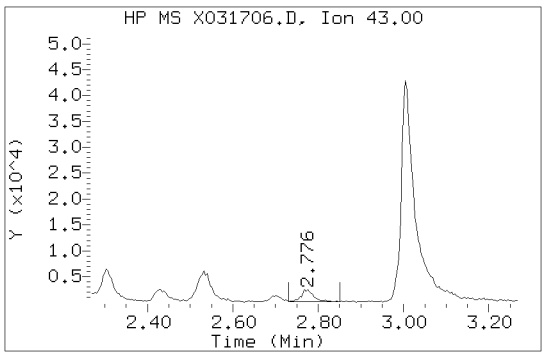
AFTER
MASS
41
AREA
4280
HEIGHT
2559
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
43
AREA
5026
HEIGHT
2432
30-Mar-2023
12:33
linh
pham



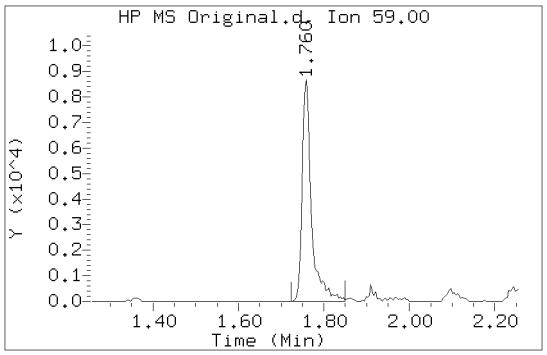
AFTER
MASS
43
AREA
5026
HEIGHT
2432
30-Mar-2023
12:41
linh
pham



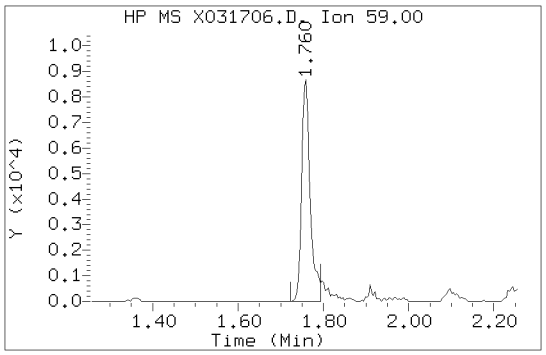
Diethyl ether (60-29-7)

Reason Code:

BEFORE
MASS
59
AREA
13419
HEIGHT
8678
30-Mar-2023
12:33
linh
pham



AFTER
MASS
59
AREA
12349
HEIGHT
8678
30-Mar-2023
12:41
linh
pham



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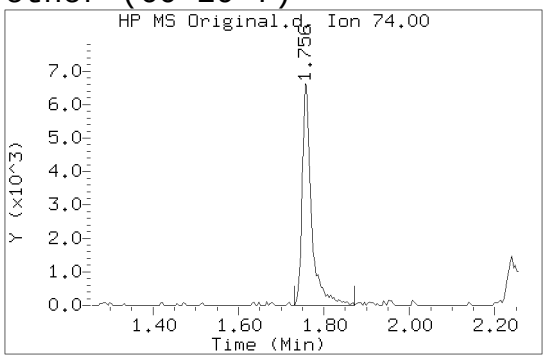
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Diethyl ether (60-29-7)

Reason Code:

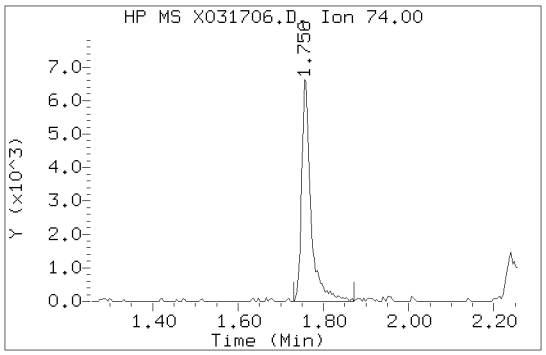
BEFORE

MASS
74
AREA
10195
HEIGHT
6625
30-Mar-2023
12:33
linh
pham



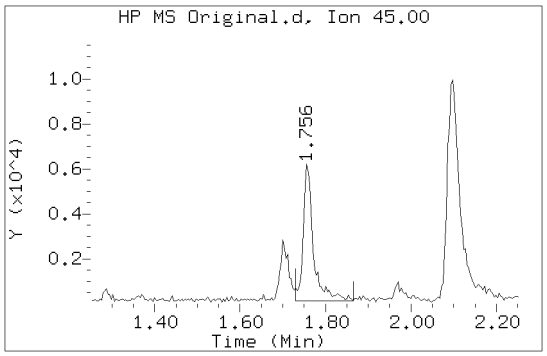
AFTER

MASS
74
AREA
10195
HEIGHT
6625
30-Mar-2023
12:41
linh
pham



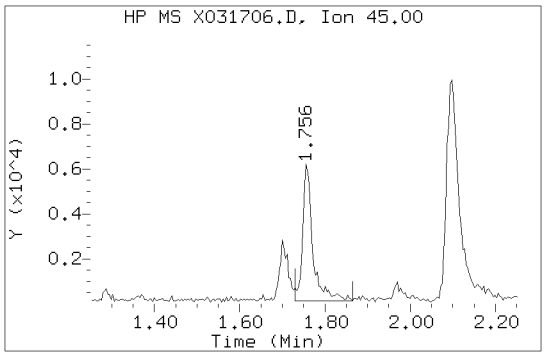
BEFORE

MASS
45
AREA
10306
HEIGHT
6079
30-Mar-2023
12:33
linh
pham



AFTER

MASS
45
AREA
10306
HEIGHT
6079
30-Mar-2023
12:41
linh
pham

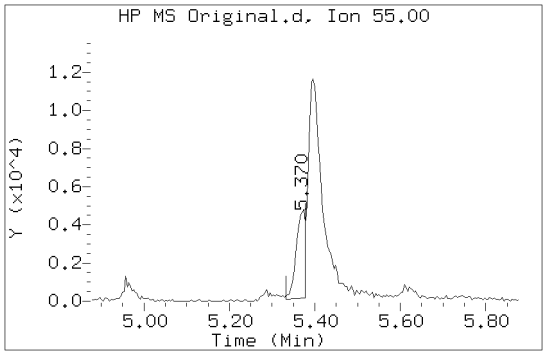


Methylcyclohexane (108-87-2)

Reason Code:

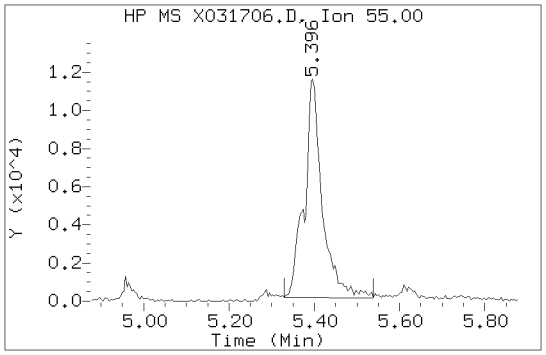
BEFORE

MASS
55
AREA
6879
HEIGHT
4485
30-Mar-2023
12:33
linh
pham



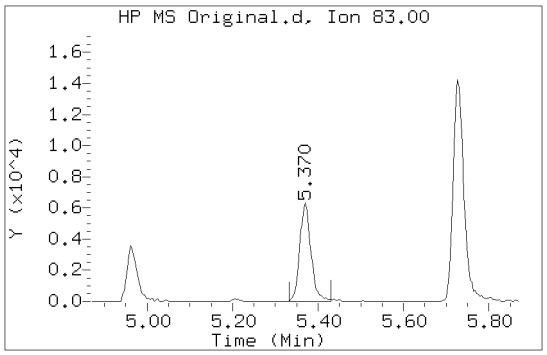
AFTER

MASS
55
AREA
33923
HEIGHT
11464
30-Mar-2023
12:41
linh
pham



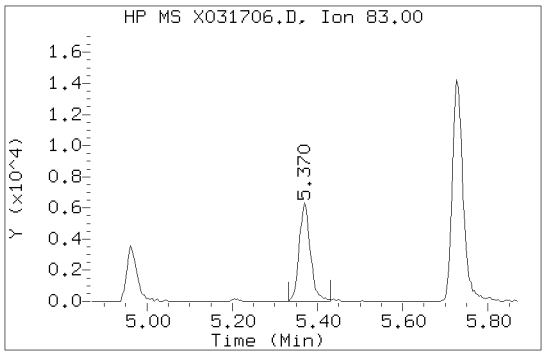
BEFORE

MASS
83
AREA
11711
HEIGHT
6349
30-Mar-2023
12:33
linh
pham



AFTER

MASS
83
AREA
11711
HEIGHT
6349
30-Mar-2023
12:41
linh
pham



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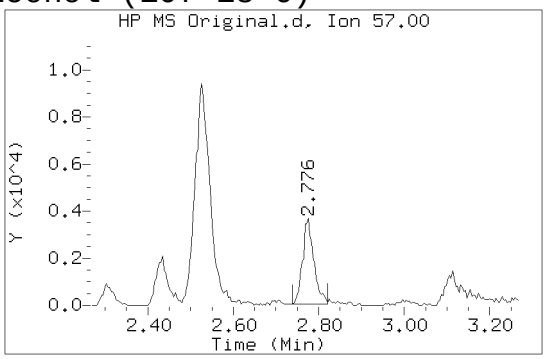
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Allyl alcohol (107-18-6)

Reason Code:

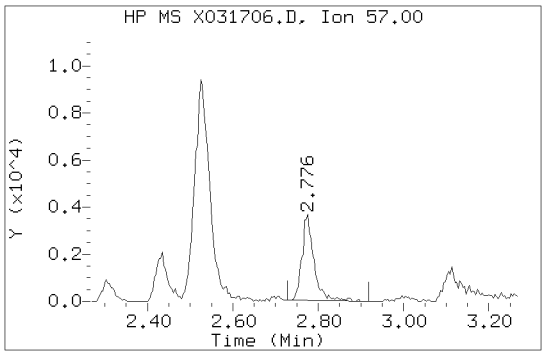
BEFORE

MASS
57
AREA
6747
HEIGHT
3646
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
7188
HEIGHT
3660
30-Mar-2023
12:41
linh
pham

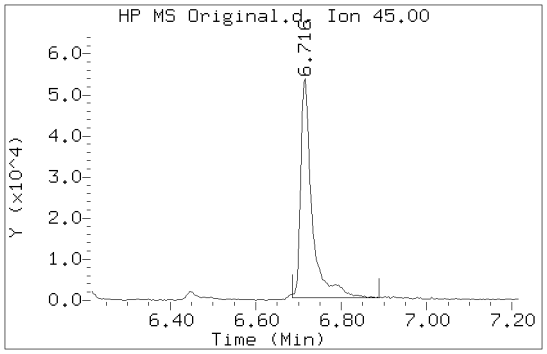


4-Methyl-2-pentanol (108-11-2)

Reason Code:

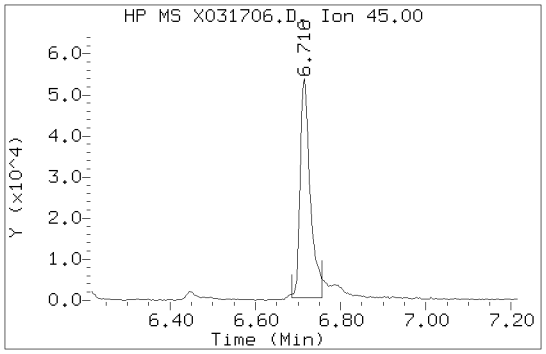
BEFORE

MASS
45
AREA
101213
HEIGHT
53312
30-Mar-2023
12:33
linh
pham



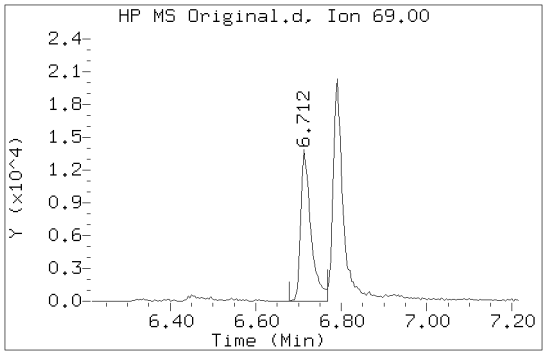
AFTER

MASS
45
AREA
90297
HEIGHT
53312
30-Mar-2023
12:41
linh
pham



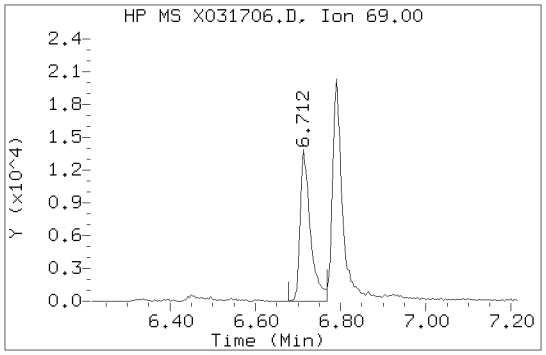
BEFORE

MASS
69
AREA
23861
HEIGHT
13912
30-Mar-2023
12:33
linh
pham



AFTER

MASS
69
AREA
23861
HEIGHT
13912
30-Mar-2023
12:41
linh
pham

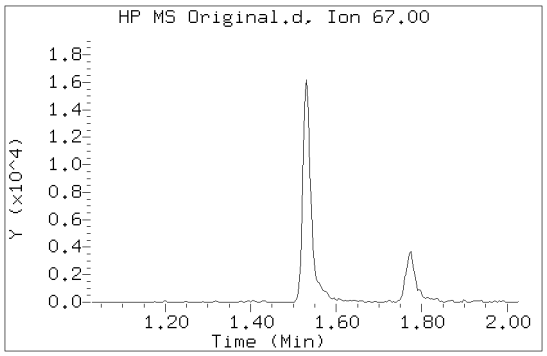


Dichlorofluoromethane (75-43-4)

Reason Code:

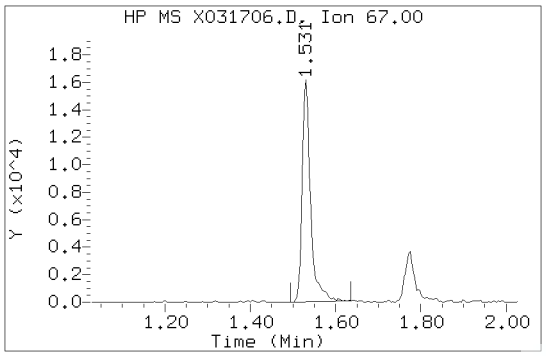
BEFORE

MASS
67
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
67
AREA
22490
HEIGHT
16149
30-Mar-2023
12:41
linh
pham



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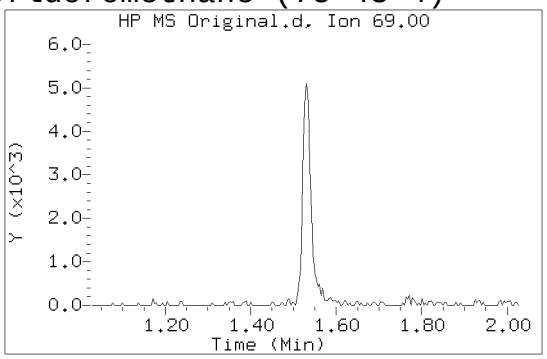
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Dichlorofluoromethane (75-43-4)

Reason Code:

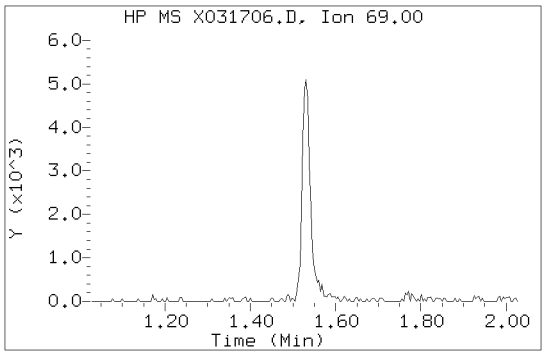
BEFORE

MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



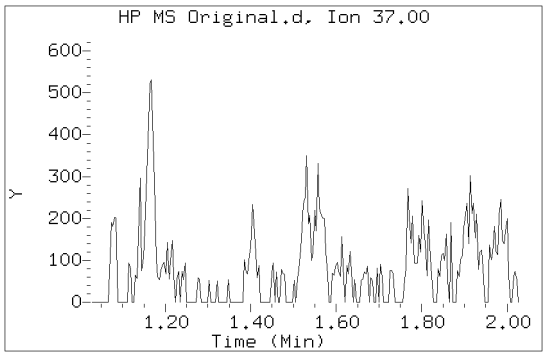
AFTER

MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



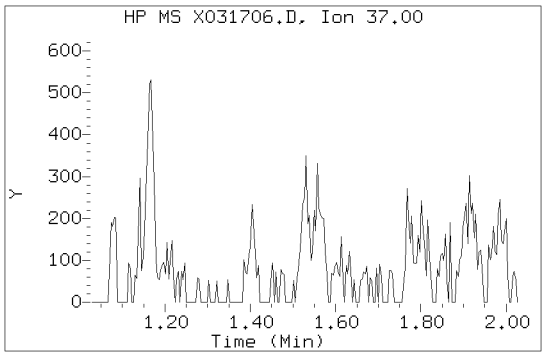
BEFORE

MASS
37
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
37
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

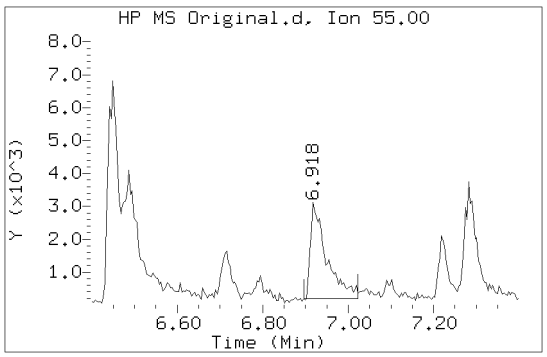


3-Methyl-1-butanol (123-51-3)

Reason Code:

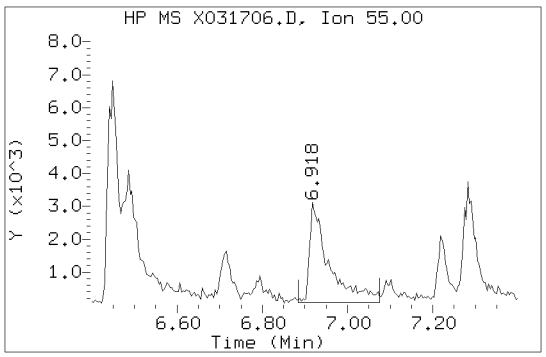
BEFORE

MASS
55
AREA
7748
HEIGHT
2940
30-Mar-2023
12:33
linh
pham



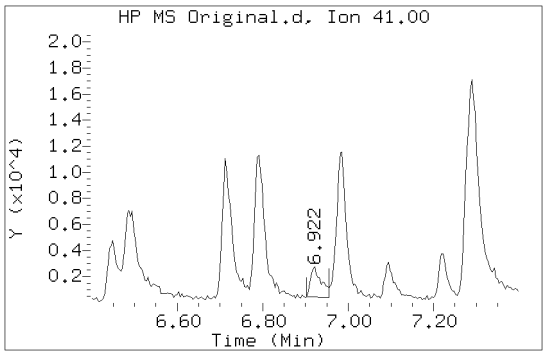
AFTER

MASS
55
AREA
9604
HEIGHT
3048
30-Mar-2023
12:41
linh
pham



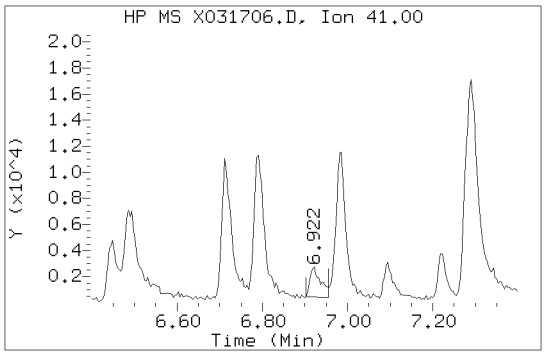
BEFORE

MASS
41
AREA
4154
HEIGHT
2341
30-Mar-2023
12:33
linh
pham



AFTER

MASS
41
AREA
4154
HEIGHT
2341
30-Mar-2023
12:41
linh
pham



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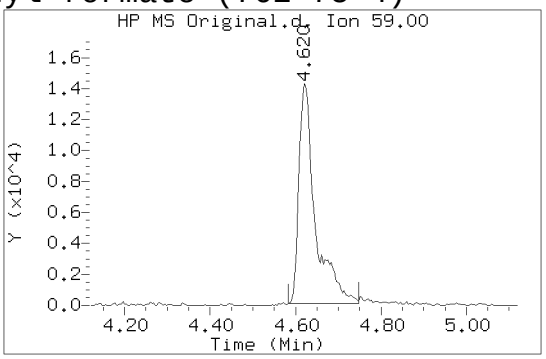
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

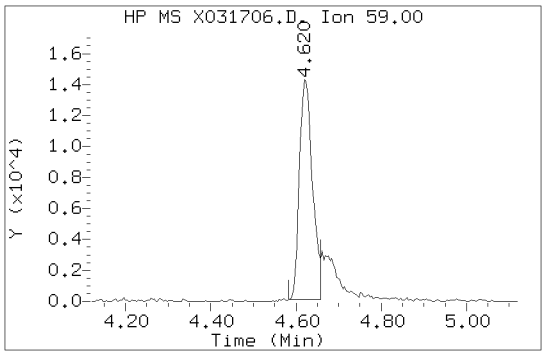
tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
59
AREA
38602
HEIGHT
14207
30-Mar-2023
12:33
linh
pham



AFTER
MASS
59
AREA
30990
HEIGHT
14207
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
57
AREA
1147
HEIGHT
668
30-Mar-2023
12:33
linh
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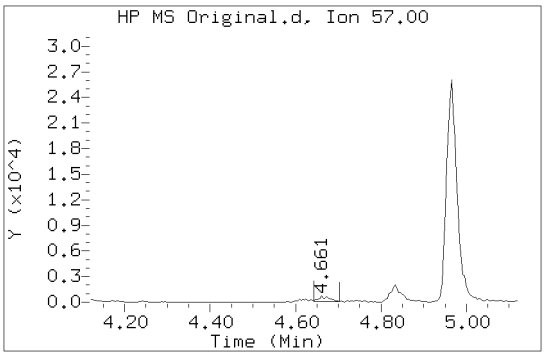

AFTER
MASS
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668
30-Mar-2023
12:41
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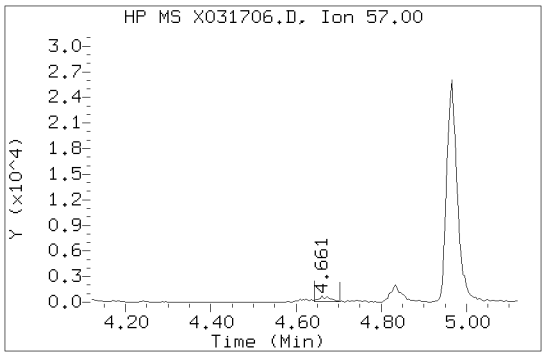

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2464
30-Mar-2023
12:33
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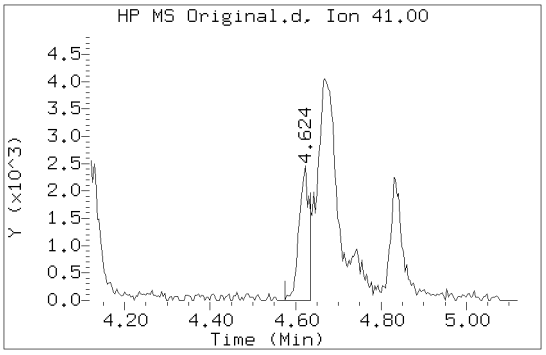

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30-Mar-2023
12:41
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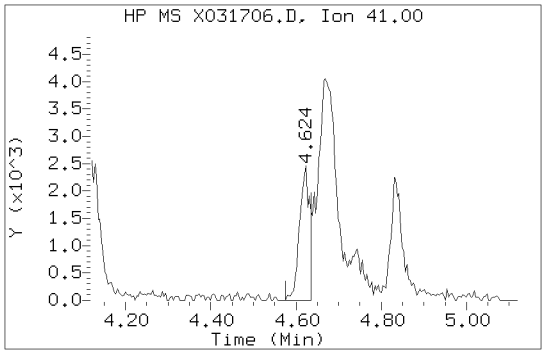

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

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30-Mar-2023
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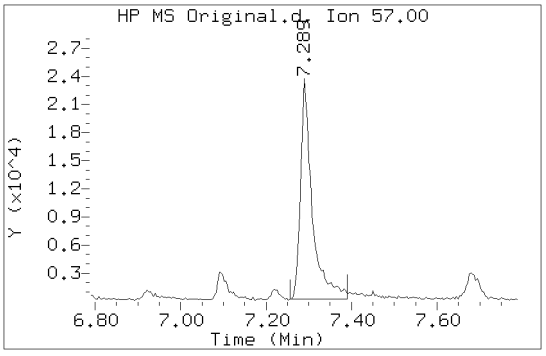

AFTER
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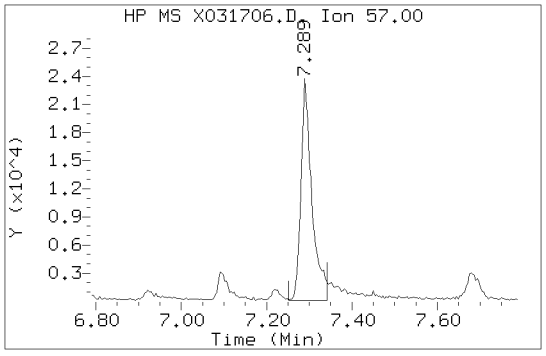

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Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE

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67
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1918
HEIGHT
732
30-Mar-2023
12:33
linh
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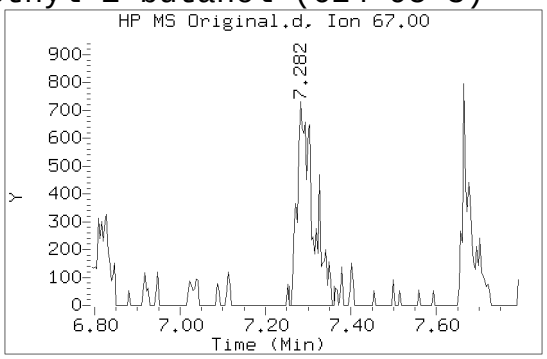

AFTER

MASS
67
AREA
1055
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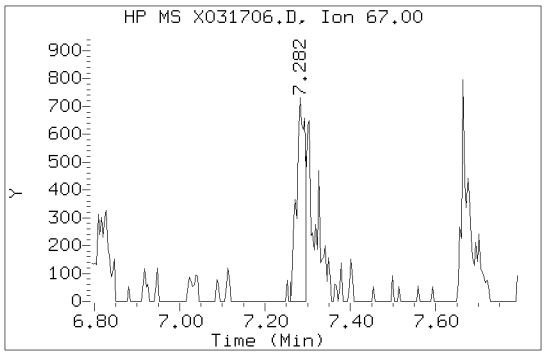
732
30-Mar-2023
12:41
linh
pham



BEFORE

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12:33
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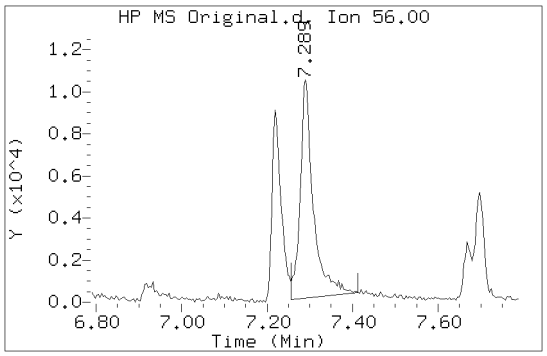

AFTER

MASS
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22816
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10362
30-Mar-2023
12:41
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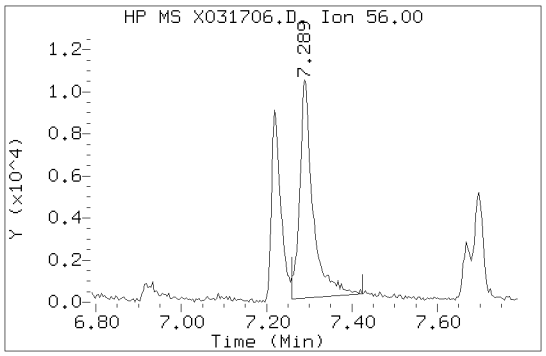

tert-Amyl alcohol (75-85-4)

Reason Code:

BEFORE

MASS
59
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38602
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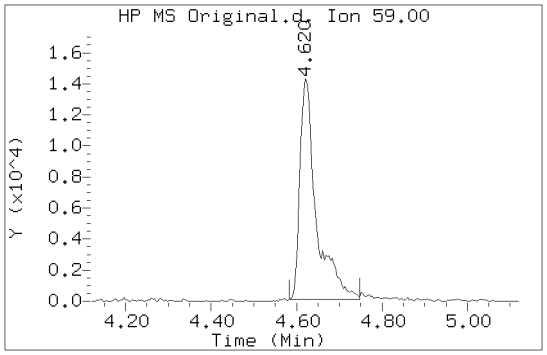
30-Mar-2023
12:33
linh
pham



AFTER

MASS
59
AREA
32276
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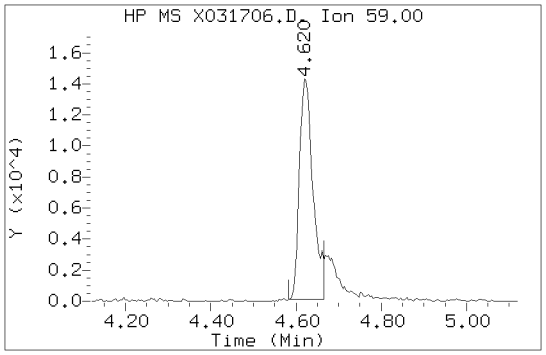
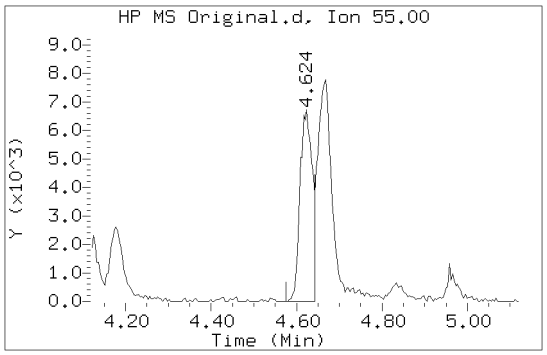
14207
30-Mar-2023
12:41
linh
pham



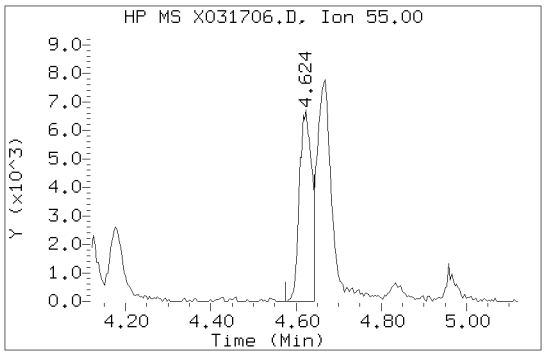
BEFORE

MASS
55
AREA
13691
HEIGHT
6713
30-Mar-2023
12:33
linh
pham



AFTER

MASS
55
AREA
13691
HEIGHT
6713
30-Mar-2023
12:41
linh
pham



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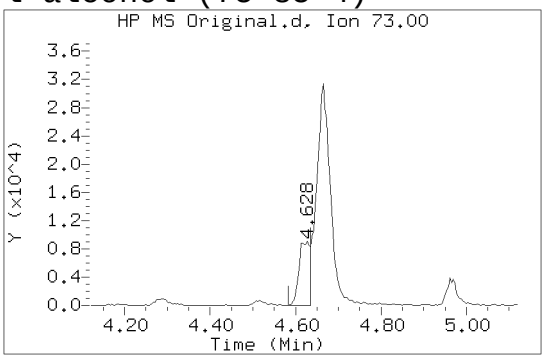
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

tert-Amyl alcohol (75-85-4)

Reason Code:

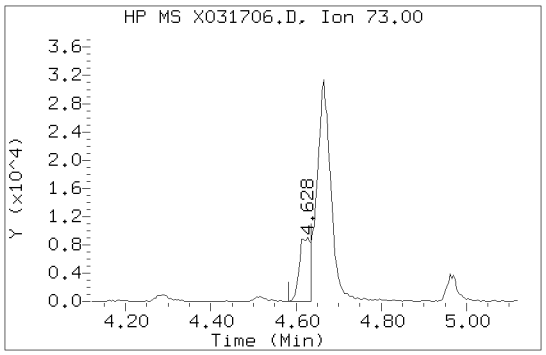
BEFORE

MASS
73
AREA
16815
HEIGHT
9032
30-Mar-2023
12:33
linh
pham



AFTER

MASS
73
AREA
16815
HEIGHT
9032
30-Mar-2023
12:41
linh
pham



Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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44
AREA
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HEIGHT
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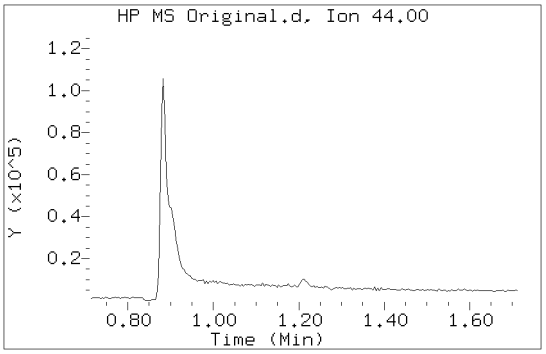
30-Mar-2023
12:33
linh
pham



AFTER

MASS
44
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30-Mar-2023
12:41
linh
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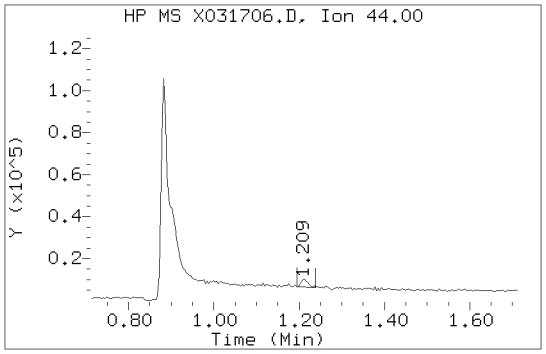

BEFORE

MASS
43
AREA
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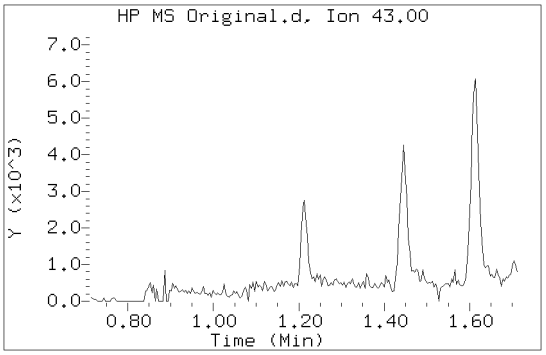
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
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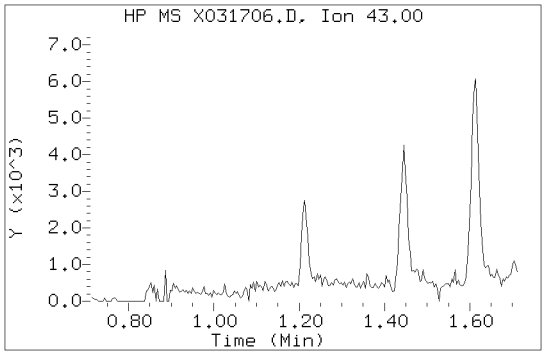
0
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
42
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30-Mar-2023
12:33
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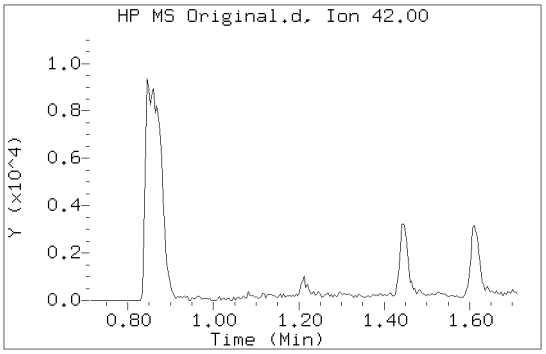

AFTER

MASS
42
AREA
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HEIGHT
0
30-Mar-2023
12:41
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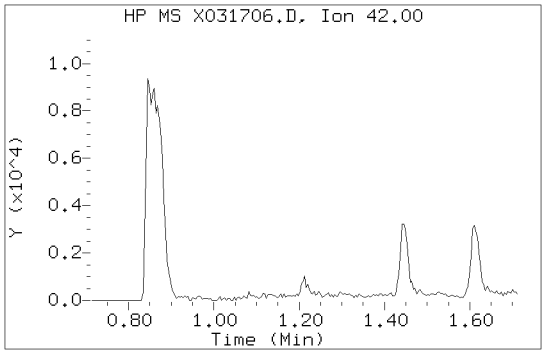

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Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Isobutylene (115-11-7)

Reason Code:

BEFORE
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41
AREA
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HEIGHT
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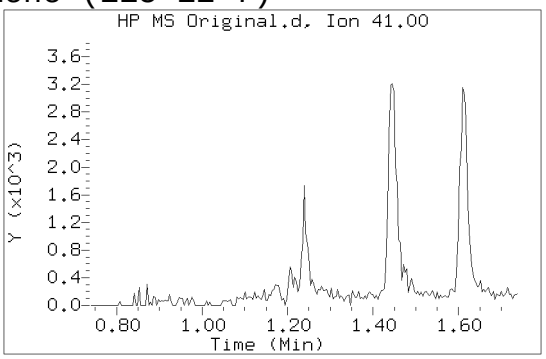
30-Mar-2023
12:33
linh
pham



AFTER
MASS
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AREA
1462
HEIGHT
1677
30-Mar-2023
12:41
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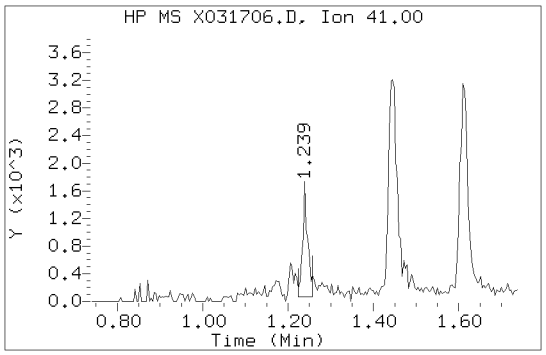
pham



BEFORE
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30-Mar-2023
12:33
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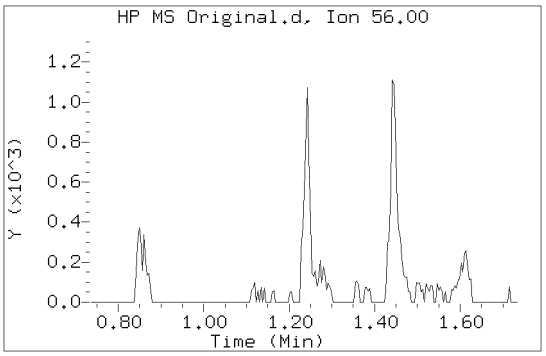

AFTER
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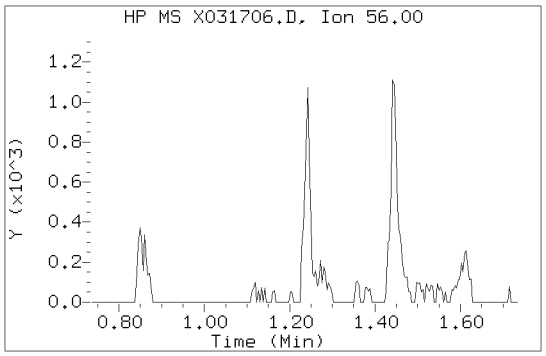

BEFORE
MASS
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HEIGHT
0
30-Mar-2023
12:33
linh
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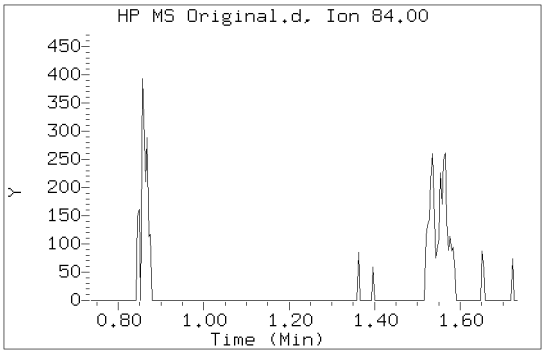

AFTER
MASS
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AREA
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30-Mar-2023
12:41
linh
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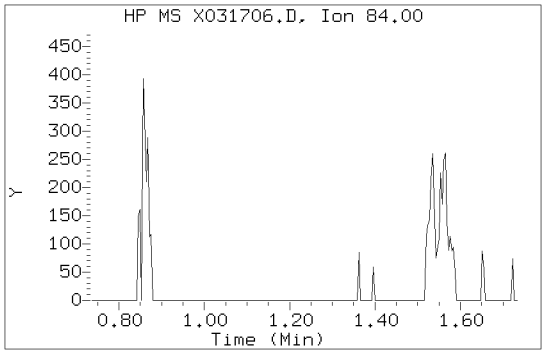

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
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AREA
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HEIGHT
9652
30-Mar-2023
12:33
linh
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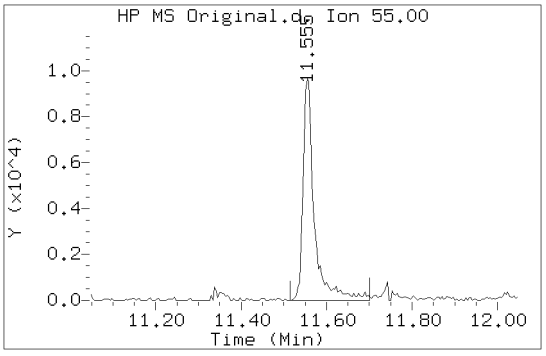

AFTER
MASS
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AREA
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HEIGHT
9652
30-Mar-2023
12:41
linh
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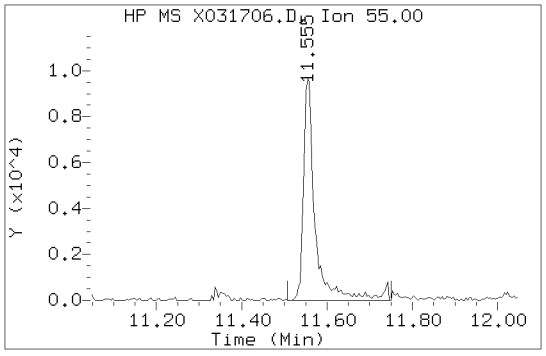

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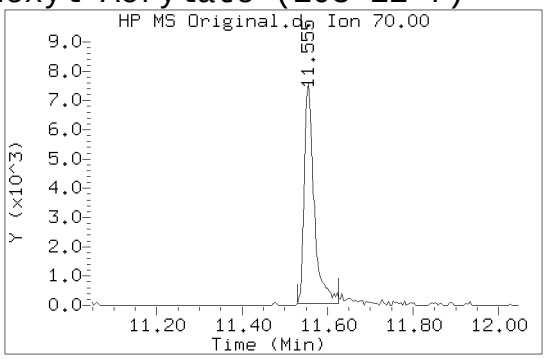
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE

MASS
70
AREA
12386
HEIGHT
7514
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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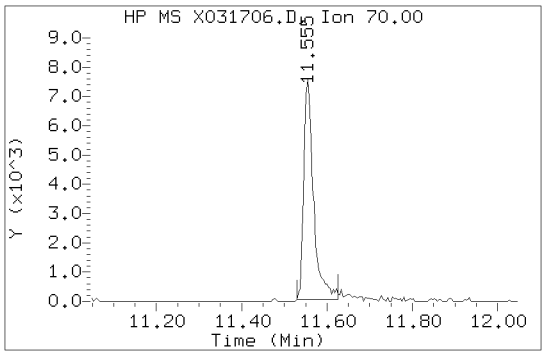
AREA
12386
HEIGHT
7514
30-Mar-2023
12:41
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031707.D Page 1
Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031707.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 17-MAR-2023 13:35
Operator : PC Inst ID: voa6.i
Smp Info : VSTD020;VSTD020;1;6;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:14 Cal File: X031706.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.178	4.178	(1.000)	375428	50.0000	
2	Dichlorodifluoromethane	85	0.973	0.973	(0.233)	49131	20.0000	19.95
3	Chloromethane	50	1.078	1.078	(0.258)	63768	20.0000	18.46
4	Propionitrile	54	3.649	3.649	(0.873)	99704	200.000	188.48(a)
5	Vinyl Chloride	62	1.141	1.141	(0.273)	56297	20.0000	19.03
6	Bromomethane	94	1.340	1.340	(0.321)	33661	20.0000	19.79
7	Chloroethane	64	1.404	1.404	(0.336)	41116	20.0000	19.60
8	Trichlorofluoromethane	101	1.561	1.561	(0.374)	68499	20.0000	19.52
9	Acrolein	56	1.445	1.445	(0.346)	7235	40.0000	35.97
10	Acetone	43	1.973	1.973	(0.472)	45236	40.0000	43.23
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	44176	20.0000	19.59
12	Isobutyl Alcohol	43	4.672	4.672	(1.118)	207920	400.000	405.92(a)
13	Acetonitrile	39	2.198	2.198	(0.526)	66904	200.000	191.47(a)
14	Allyl Chloride	41	2.198	2.198	(0.526)	159235	20.0000	18.42(a)
15	Iodomethane	142	2.026	2.026	(0.485)	49371	40.0000	26.86
16	Acrylonitrile	53	2.539	2.539	(0.608)	50065	40.0000	39.96
17	Methylene Chloride	84	2.303	2.303	(0.551)	76634	20.0000	19.87
18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	221063	20.0000	18.62
19	Carbon Disulfide	76	2.067	2.067	(0.495)	303028	40.0000	36.58
20	trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	60493	20.0000	19.02

21 Vinyl Acetate	43	2.997	2.997 (0.717)	390224	40.0000	40.72
22 1,1-Dichloroethane	63	2.922	2.922 (0.699)	111381	20.0000	19.34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.771	1.771	(0.424)	18279	20.0000	17.75(M)
	24 2-Butanone	43	3.578	3.578	(0.856)	53809	40.0000	40.02
	25 Methacrylonitrile	41	3.822	3.822	(0.915)	67445	20.0000	19.49(a)
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	89332	20.0000	19.53
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	73434	20.0000	19.08
	28 Chloroform	83	3.904	3.904	(0.935)	119690	20.0000	18.72
	29 Bromochloromethane	128	3.795	3.795	(0.908)	40882	20.0000	18.77
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	75605	20.0000	21.17
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	90992	20.0000	19.03
	32 1,1-Dichloropropene	75	4.283	4.283	(0.863)	78416	20.0000	18.31
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	94228	20.0000	18.89
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	71340	20.0000	17.40
$	35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.071)	83385	20.0000	21.21
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	600016	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	278054	20.0000	18.84
	38 Trichloroethene	130	5.205	5.205	(1.048)	74100	20.0000	18.64
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	99412	20.0000	18.98
	40 Methyl Methacrylate	41	5.606	5.606	(1.342)	66160	20.0000	19.76(a)
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	62485	40.0000	39.24
	42 1,2-Dichloropropane	63	5.437	5.437	(1.095)	74812	20.0000	18.81
	43 2-Nitropropane	43	5.969	5.969	(1.429)	21089	20.0000	17.89(H)
	44 Dibromomethane	93	5.553	5.553	(1.119)	49506	20.0000	19.52
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	145503	40.0000	40.14
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	126298	20.0000	19.09
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	572818	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	275369	20.0000	19.39
	49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	86679	20.0000	19.62(a)
	50 Toluene	91	6.446	6.446	(0.841)	287831	20.0000	19.15
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	106247	20.0000	19.34
	52 2-Hexanone	43	7.087	7.087	(0.924)	101401	40.0000	40.76
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	62132	20.0000	19.01
	54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	128223	20.0000	19.74
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	85705	20.0000	18.56
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	54179	20.0000	17.98
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	79749	20.0000	19.74
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	49375	20.0000	18.70
	59 Chlorobenzene	112	7.694	7.694	(1.003)	205948	20.0000	19.17
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	78087	20.0000	18.86
	61 Ethylbenzene	106	7.799	7.799	(1.017)	97589	20.0000	18.46
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	248277	40.0000	37.32
	63 o-Xylene	106	8.241	8.241	(1.075)	124636	20.0000	18.64
	64 Styrene	104	8.260	8.260	(1.077)	220767	20.0000	19.98
	66 Bromoform	173	8.410	8.410	(1.097)	61739	20.0000	19.34
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	272726	20.0000	17.81
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	106192	20.0000	18.99
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	111601	20.0000	20.47
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	320882	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	79380	20.0000	18.89
	72 trans-1,4-Dichloro-2-butene	53	8.890	8.890	(1.159)	23270	20.0000	18.58(a)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	317920	20.0000	17.82
	74 Bromobenzene	156	8.803	8.803	(0.911)	95802	20.0000	18.57
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	249669	20.0000	18.04

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	225352	20.0000	18.79
77	4-Chlorotoluene	91	9.070	9.070 (0.939)	259727	20.0000	19.21

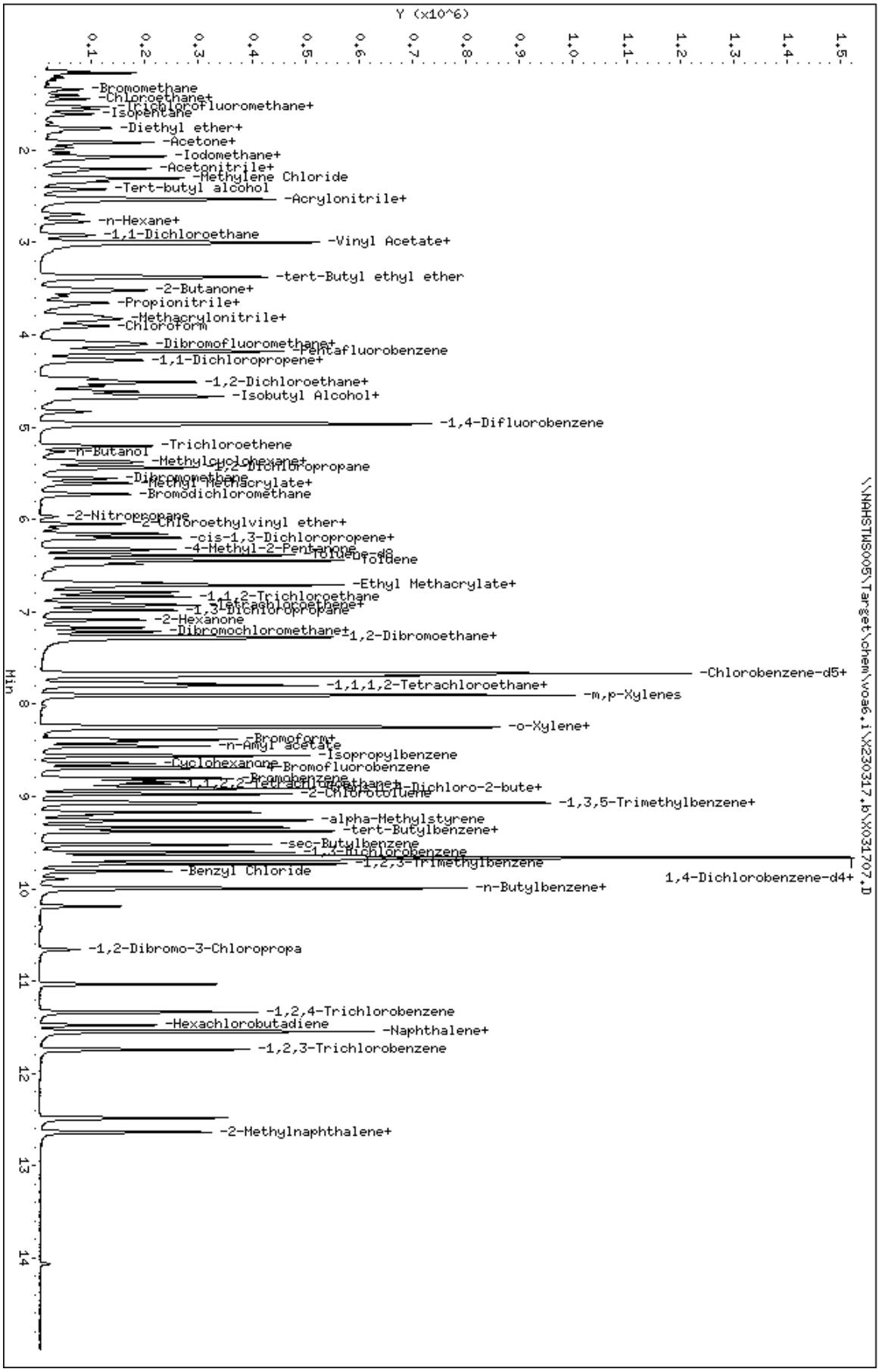
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	191973	20.0000	17.42
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	261695	20.0000	18.44
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	246714	20.0000	16.52
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	232500	20.0000	17.44
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	167600	20.0000	18.78
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	178193	20.0000	18.58
86	Benzyl Chloride	91	9.808	9.808	(1.279)	154893	20.0000	18.08
87	n-Butylbenzene	91	9.996	9.996	(1.035)	188468	20.0000	17.54
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	173370	20.0000	19.42
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	18853	20.0000	19.24
90	1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	121468	20.0000	18.61
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	38257	20.0000	16.84
92	Naphthalene	128	11.544	11.544	(1.195)	309246	20.0000	19.74
93	1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	117523	20.0000	18.82
146	Methyl acetate	43	2.236	2.236	(0.535)	43834	20.0000	20.31
138	Freon TF	101	1.910	1.910	(0.457)	37539	20.0000	19.24
141	Cyclohexane	56	4.121	4.121	(0.987)	64931	20.0000	17.77(M)
142	Tetrahydrofuran	42	3.844	3.844	(0.920)	24653	40.0000	40.21
147	Methylcyclohexane	55	5.385	5.385	(1.085)	148550	20.0000	17.93
135	1,4-Dioxane	88	5.598	5.598	(1.340)	18580	400.000	372.97
132	n-Butanol	56	5.257	5.257	(1.258)	30431	400.000	335.18(a)
131	Methyl Acrylate	55	3.690	3.690	(0.883)	75084	20.0000	19.31
133	Ethyl Acrylate	55	5.385	5.385	(1.289)	149160	20.0000	18.20
136	n-Hexane	57	2.768	2.768	(0.663)	45980	20.0000	20.23
139	Diethyl ether	59	1.756	1.756	(0.420)	49501	20.0000	19.67
148	Tert-butyl alcohol	59	2.423	2.423	(0.580)	150054	400.000	381.66
149	Isopropyl alcohol	45	2.093	2.093	(0.501)	80057	400.000	381.06
156	Diisopropyl ether	45	2.997	2.997	(0.717)	221046	20.0000	18.96
160	2-Methylnaphthalene	142	12.635	12.635	(1.308)	148176	20.0000	19.14
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	269949	20.0000	17.54
167	Ethanol	45	1.704	1.704	(0.408)	14003	400.000	415.88
172	tert-Butyl formate	59	4.616	4.616	(1.105)	117591	40.0000	38.44
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	168566	400.000	381.89
174	tert-Amyl methyl ether	73	4.661	4.661	(1.116)	251060	20.0000	18.68
175	tert-Butyl ethyl ether	59	3.372	3.372	(0.807)	231660	20.0000	18.97
176	tert-Amyl alcohol	59	4.616	4.616	(1.105)	117591	400.000	366.00
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	348435	400.000	397.85(M)
180	1-Methylnaphthalene	142	12.635	12.635	(1.308)	148176	20.0000	(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	48007	20.0000	18.85
152	Amyl alcohol	42	6.907	6.907	(0.901)	38119	400.000	369.23(M)
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	88715	20.0000	19.07
159	Propylene oxide	43	1.805	1.805	(0.432)	9637	40.0000	41.14(M)
161	3-Methyl-1-butanol	55	6.907	6.907	(0.901)	39040	400.000	390.51(M)
162	Butyl acrylate	55	8.252	8.252	(1.076)	161426	20.0000	19.09
182	Epichlorohydrin	57	6.097	6.097	(1.228)	24930	80.0000	72.83
M 94	1,2-Dichloroethylene (total)	96				133927	40.0000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	131083	20.0000	18.73
130	Ethyl Acetate	43	3.653	3.653	(0.874)	82432	20.0000	21.25
134	Cyclohexanone	55	8.642	8.642	(0.894)	74641	400.000	391.66(a)
185	Isoprene	39	1.771	1.771	(0.424)	13485	20.0000	18.72
188	Isopropyl acetate	43	4.672	4.672	(0.941)	209284	20.0000	19.26
187	n-Amyl acetate	43	8.455	8.455	(1.103)	141740	20.0000	19.92

189 n-Butyl acetate	43	7.214	7.214 (0.941)	122667	20.0000	20.22(H)
150 Allyl alcohol	57	2.768	2.768 (0.663)	45980	400.000	404.62

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.212	1.212	(0.290)	14072	80.0000	62.26(M)
195 Methyl Amyl Ketone	43	8.384	8.384	(1.093)	179784	20.0000	19.86
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	141726	20.0000	18.89
202 Isobutylene	41	1.242	1.242	(0.297)	6364	20.0000	20.39(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	84839	20.0000	17.90

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;6;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 17-MAR-2023 13:35
InstruID : voa6.i
LabSampID : VSTD020

Chloroprene (126-99-8)

BEFORE

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HEIGHT
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30-Mar-2023
12:34
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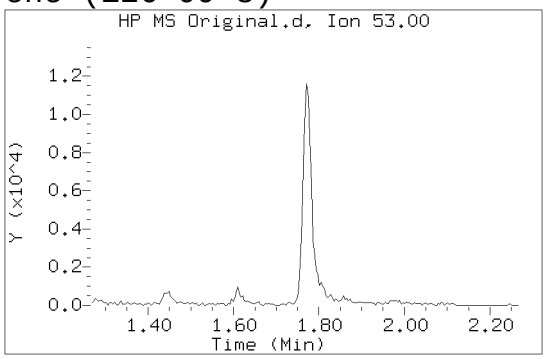
pham



BEFORE

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30-Mar-2023
12:34
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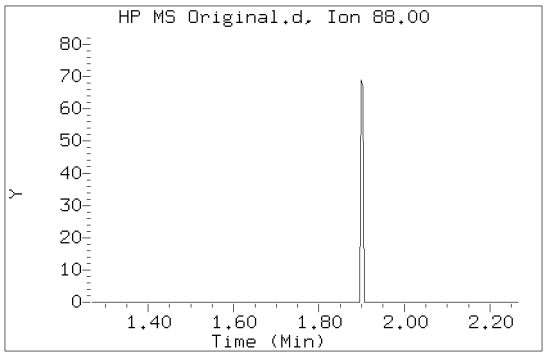

Reason Code:

AFTER

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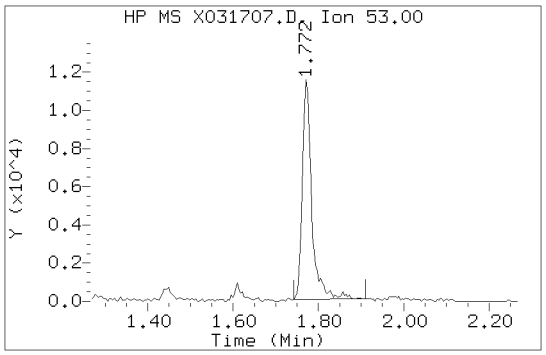

AFTER

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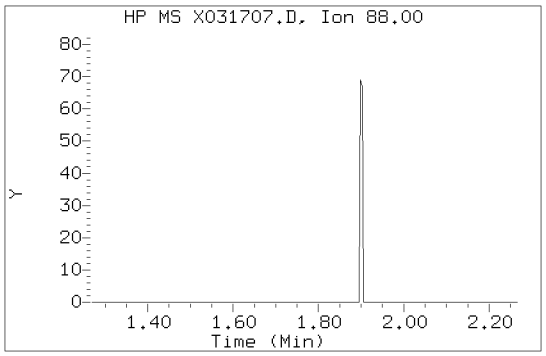

Cyclohexane (110-82-7)

BEFORE

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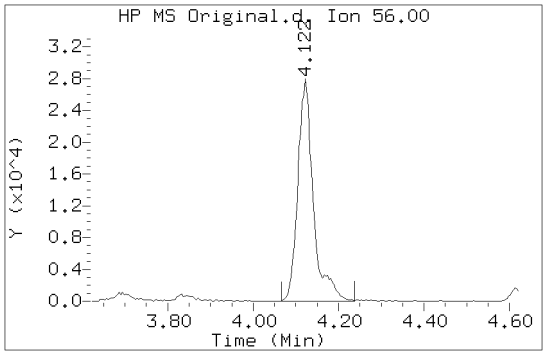

BEFORE

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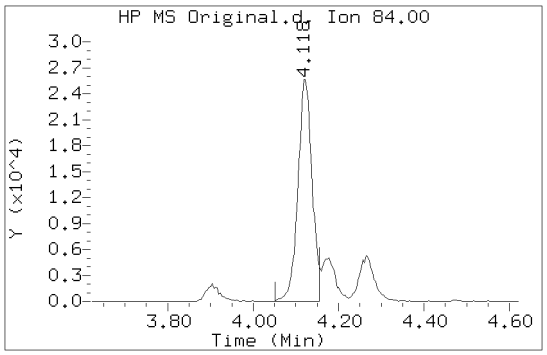

Reason Code:

AFTER

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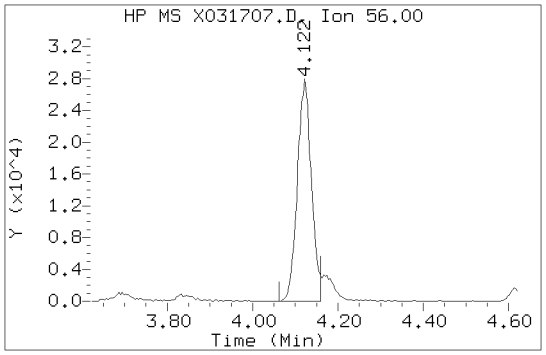

AFTER

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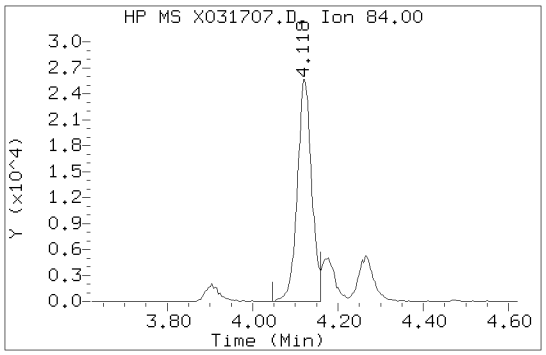

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InstruID : voa6.i
LabSampID : VSTD020

Cyclohexane (110-82-7)

Reason Code:

BEFORE

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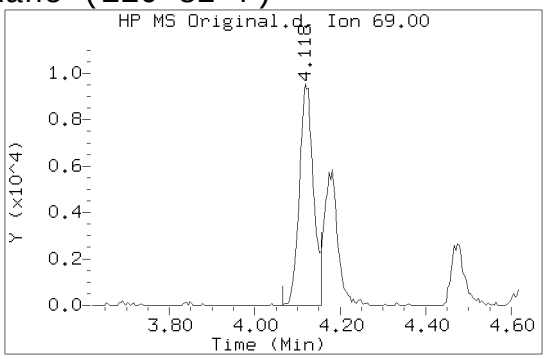

AFTER

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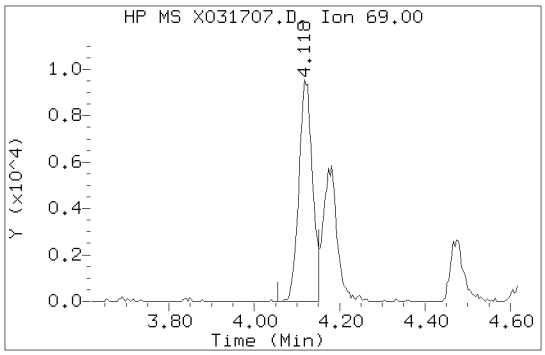

4-Methyl-2-pentanol (108-11-2)

Reason Code:

BEFORE

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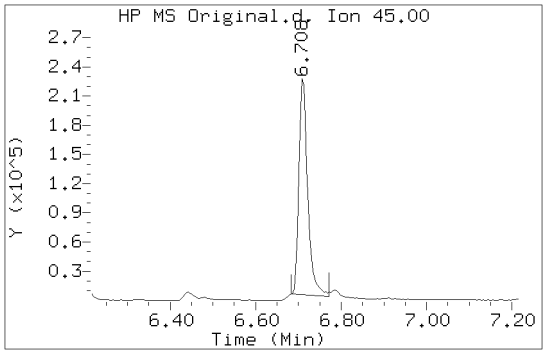

AFTER

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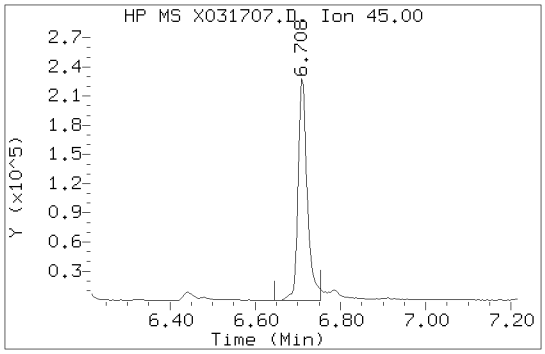

BEFORE

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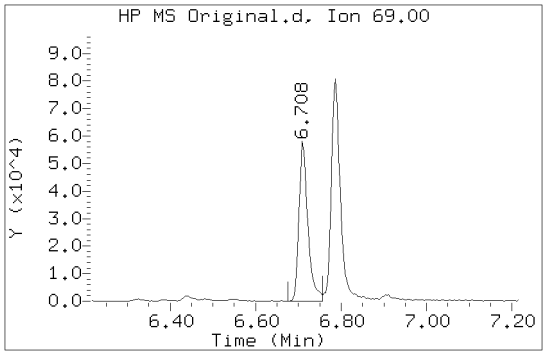

AFTER

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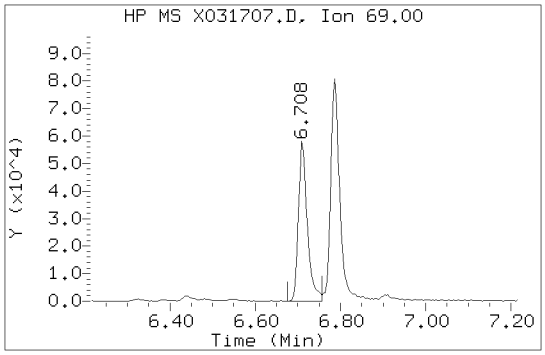

Amyl alcohol (71-41-0)

Reason Code:

BEFORE

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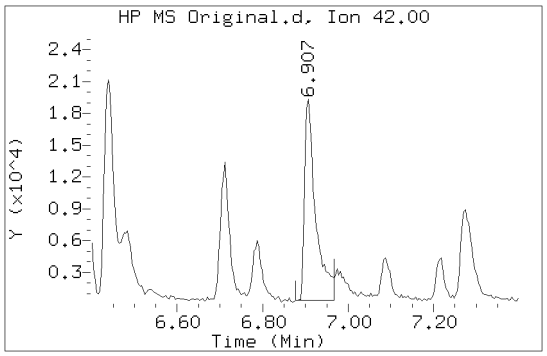

AFTER

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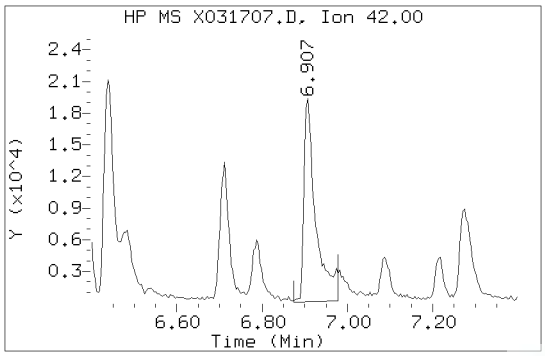

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Inj Date : 17-MAR-2023 13:35
InstruID : voa6.i
LabSampID : VSTD020

Amyl alcohol (71-41-0)

Reason Code:

BEFORE

MASS
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HEIGHT
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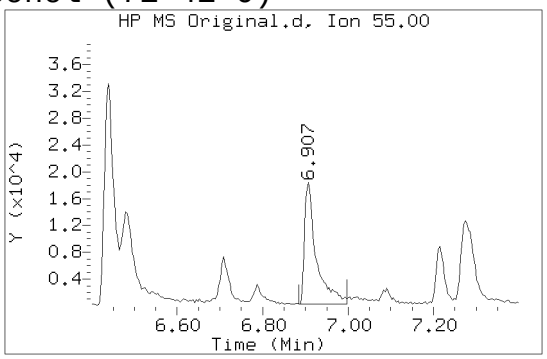
30-Mar-2023
12:34
linh
pham



AFTER

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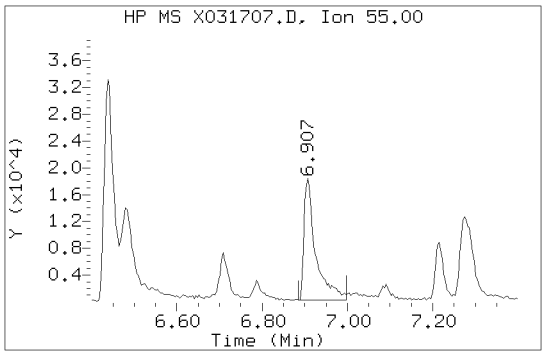

BEFORE

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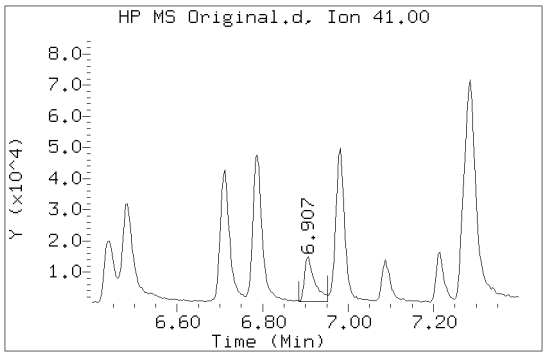

AFTER

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30-Mar-2023
12:41
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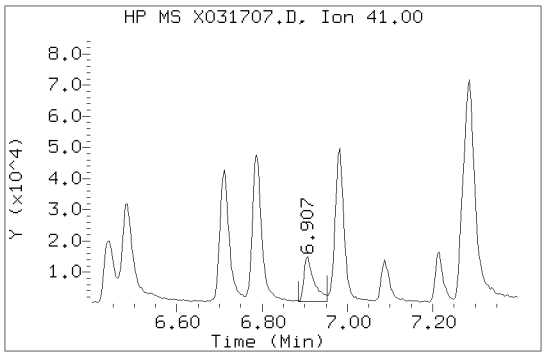

Propylene oxide ()

Reason Code:

BEFORE

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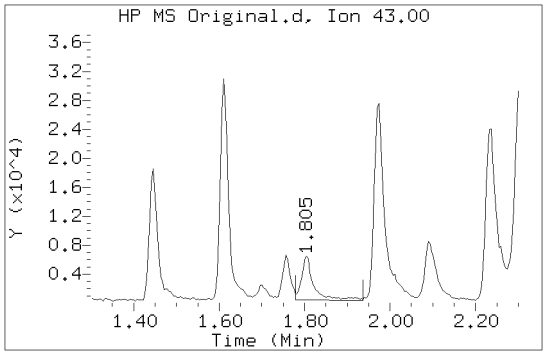

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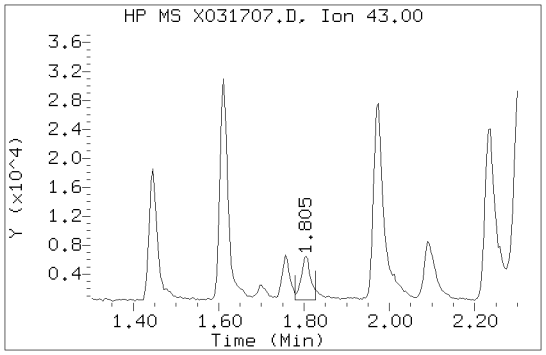

BEFORE

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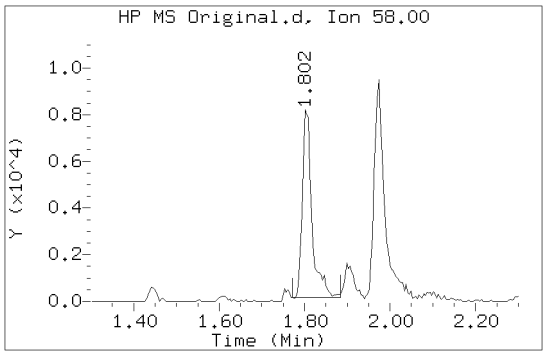

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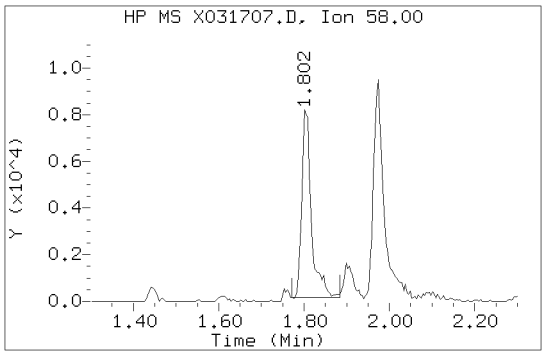

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Inj Date : 17-MAR-2023 13:35
InstruID : voa6.i
LabSampID : VSTD020

3-Methyl-1-butanol (123-51-3)

Reason Code:

BEFORE

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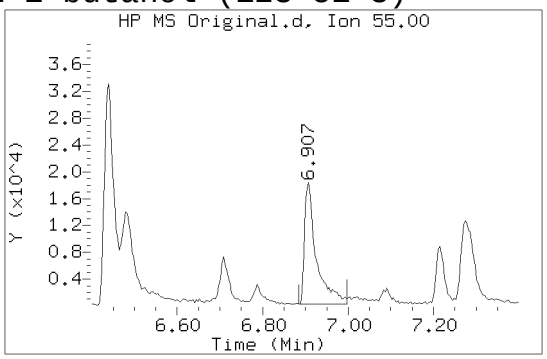

AFTER

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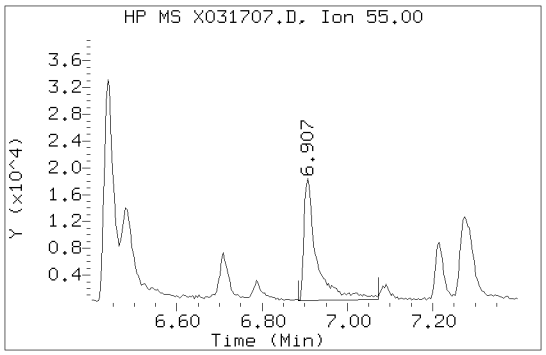

BEFORE

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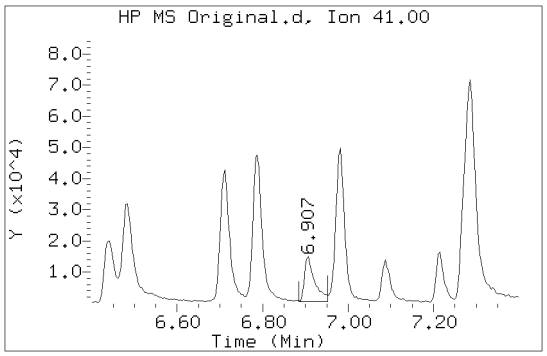

AFTER

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30-Mar-2023
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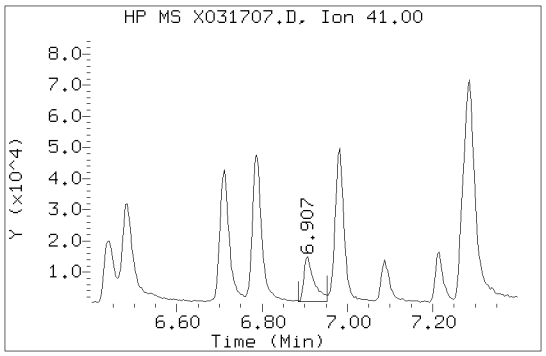

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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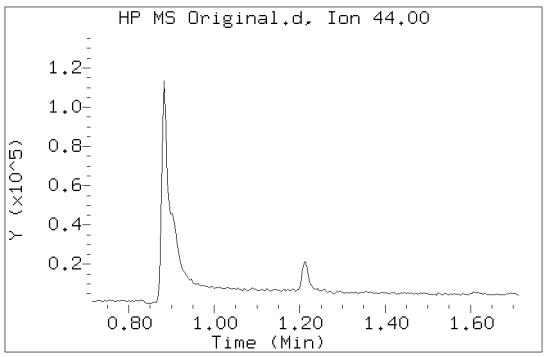

AFTER

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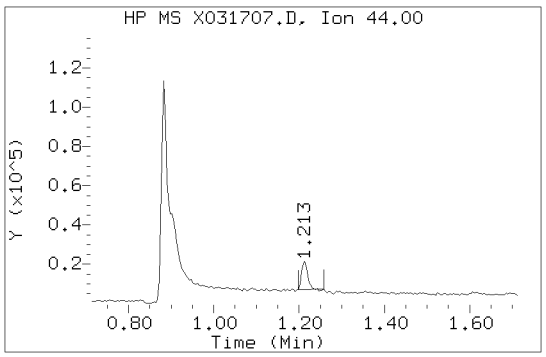

BEFORE

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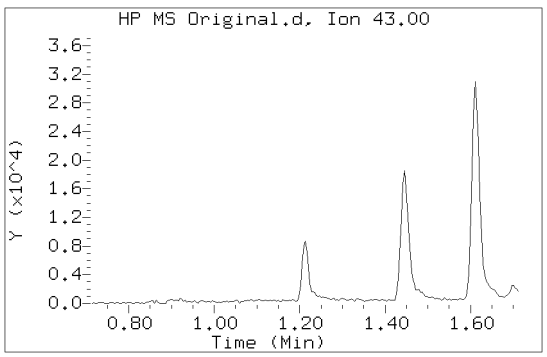

AFTER

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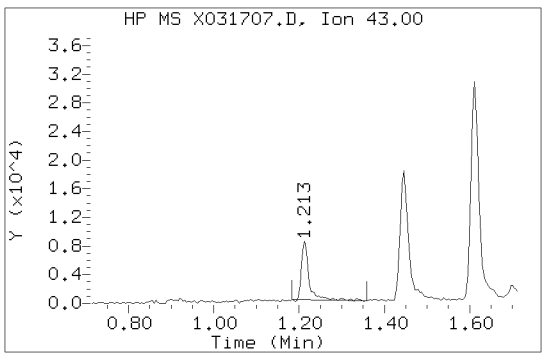

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Inj Date : 17-MAR-2023 13:35
InstruID : voa6.i
LabSampID : VSTD020

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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12:34
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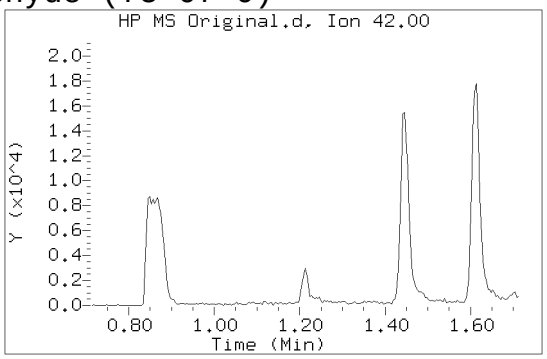

AFTER

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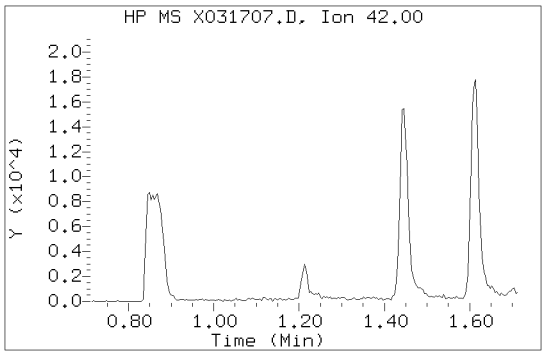

Isobutylene (115-11-7)

Reason Code:

BEFORE

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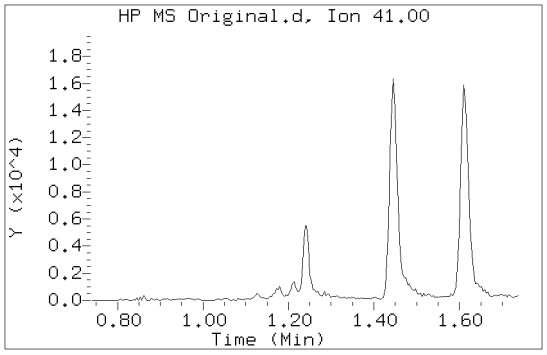

AFTER

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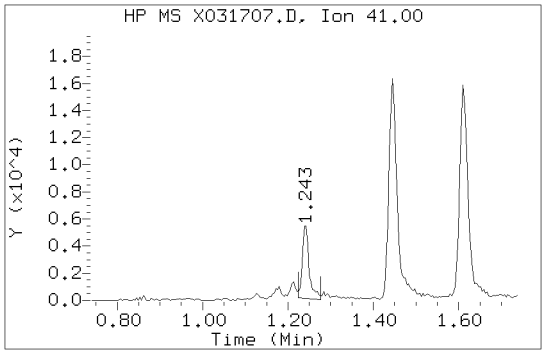

BEFORE

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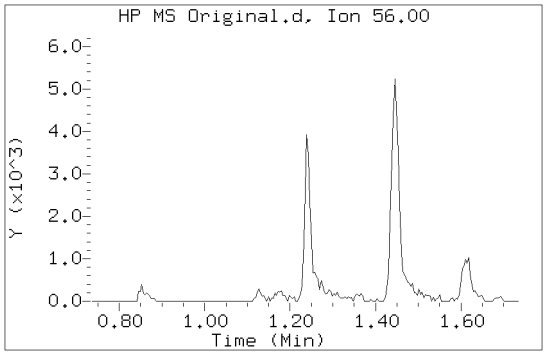

AFTER

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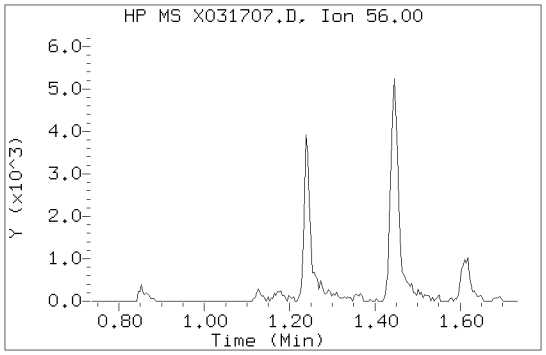

BEFORE

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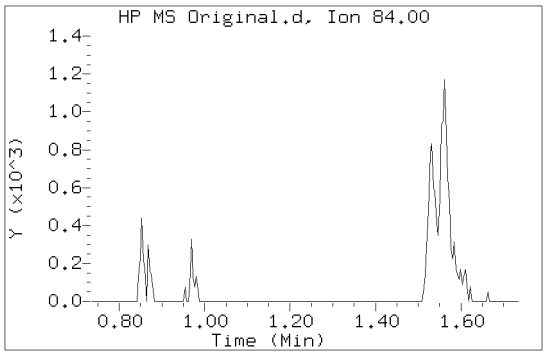

AFTER

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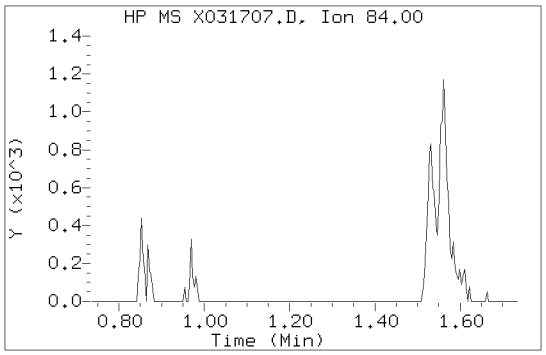

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Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031708.D
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Inj Date : 17-MAR-2023 13:55
Operator : PC Inst ID: voa6.i
Smp Info : VSTD050;VSTD050;1;7;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:35 Cal File: X031707.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.177	(1.000)	373841	50.0000	
2 Dichlorodifluoromethane	85	0.972	0.972	(0.233)	117977	50.0000	46.36
3 Chloromethane	50	1.077	1.077	(0.258)	167357	50.0000	48.66
4 Propionitrile	54	3.649	3.649	(0.873)	270084	500.000	512.73
5 Vinyl Chloride	62	1.145	1.145	(0.274)	149239	50.0000	50.68
6 Bromomethane	94	1.340	1.340	(0.321)	87374	50.0000	51.60
7 Chloroethane	64	1.403	1.403	(0.336)	102645	50.0000	49.15
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	164979	50.0000	47.23
9 Acrolein	56	1.445	1.445	(0.346)	19125	100.000	90.33
10 Acetone	43	1.970	1.970	(0.472)	109249	100.000	112.28
11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	107070	50.0000	47.69
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	526042	1000.00	1031.36
13 Acetonitrile	39	2.194	2.194	(0.525)	180909	500.000	519.95
14 Allyl Chloride	41	2.194	2.194	(0.525)	430489	50.0000	50.02
15 Iodomethane	142	2.026	2.026	(0.485)	207928	100.000	81.56
16 Acrylonitrile	53	2.528	2.528	(0.605)	131146	100.000	105.12
17 Methylene Chloride	84	2.303	2.303	(0.551)	192572	50.0000	52.77
18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	567859	50.0000	48.03
19 Carbon Disulfide	76	2.067	2.067	(0.495)	778166	100.000	94.34
20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	154462	50.0000	48.78

21 Vinyl Acetate	43	2.993	2.993 (0.716)	1029643	100.000	107.91
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	289120	50.0000	50.41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.771	1.771	(0.424)	44157	50.0000	43.07(M)
	24 2-Butanone	43	3.574	3.574	(0.856)	151521	100.000	113.19
	25 Methacrylonitrile	41	3.814	3.814	(0.913)	176795	50.0000	51.31(a)
	26 2,2-Dichloropropane	77	3.506	3.506	(0.839)	222642	50.0000	49.28
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	191357	50.0000	49.93
	28 Chloroform	83	3.904	3.904	(0.935)	307216	50.0000	48.26
	29 Bromochloromethane	128	3.791	3.791	(0.908)	105048	50.0000	48.44
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	170305	50.0000	48.87
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	222808	50.0000	46.81
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	193486	50.0000	45.60
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	246302	50.0000	49.82
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	174932	50.0000	43.07
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	195743	50.0000	48.59
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	594591	50.0000	
	37 Benzene	78	4.507	4.507	(0.908)	703343	50.0000	48.10
	38 Trichloroethene	130	5.205	5.205	(1.048)	185831	50.0000	47.18
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	252126	50.0000	48.58
	40 Methyl Methacrylate	41	5.602	5.602	(1.341)	169979	50.0000	50.99
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	167359	100.000	106.06
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	192097	50.0000	48.75
	43 2-Nitropropane	43	5.969	5.969	(1.429)	57117	50.0000	48.66(H)
	44 Dibromomethane	93	5.549	5.549	(1.118)	125388	50.0000	49.89
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	363583	100.000	103.68
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	325410	50.0000	49.64
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	554194	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	614524	50.0000	44.73
	49 Ethyl Methacrylate	69	6.708	6.708	(1.351)	205243	50.0000	46.89
	50 Toluene	91	6.445	6.445	(0.841)	730338	50.0000	50.22
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	278750	50.0000	51.22
	52 2-Hexanone	43	7.083	7.083	(0.924)	252865	100.000	105.07
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	155952	50.0000	49.33
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	321042	50.0000	51.09
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	223669	50.0000	50.08
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	135670	50.0000	46.54
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	201695	50.0000	51.61
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	119361	50.0000	42.40
	59 Chlorobenzene	112	7.690	7.690	(1.003)	512097	50.0000	49.28
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	195670	50.0000	48.86
	61 Ethylbenzene	106	7.799	7.799	(1.017)	242806	50.0000	47.48
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	620869	100.000	96.47
	63 o-Xylene	106	8.241	8.241	(1.075)	311334	50.0000	48.14
	64 Styrene	104	8.256	8.256	(1.077)	545876	50.0000	51.08
	66 Bromoform	173	8.410	8.410	(1.097)	161168	50.0000	52.19
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	689580	50.0000	46.55
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	264683	50.0000	49.31
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	251415	50.0000	47.91
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	308014	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	206608	50.0000	51.22(M)
	72 trans-1,4-Dichloro-2-butene	53	8.889	8.889	(1.159)	62606	50.0000	50.73
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	800417	50.0000	46.75
	74 Bromobenzene	156	8.803	8.803	(0.911)	242222	50.0000	48.91
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	626138	50.0000	47.15

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	545068	50.0000	47.35
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	628283	50.0000	48.43

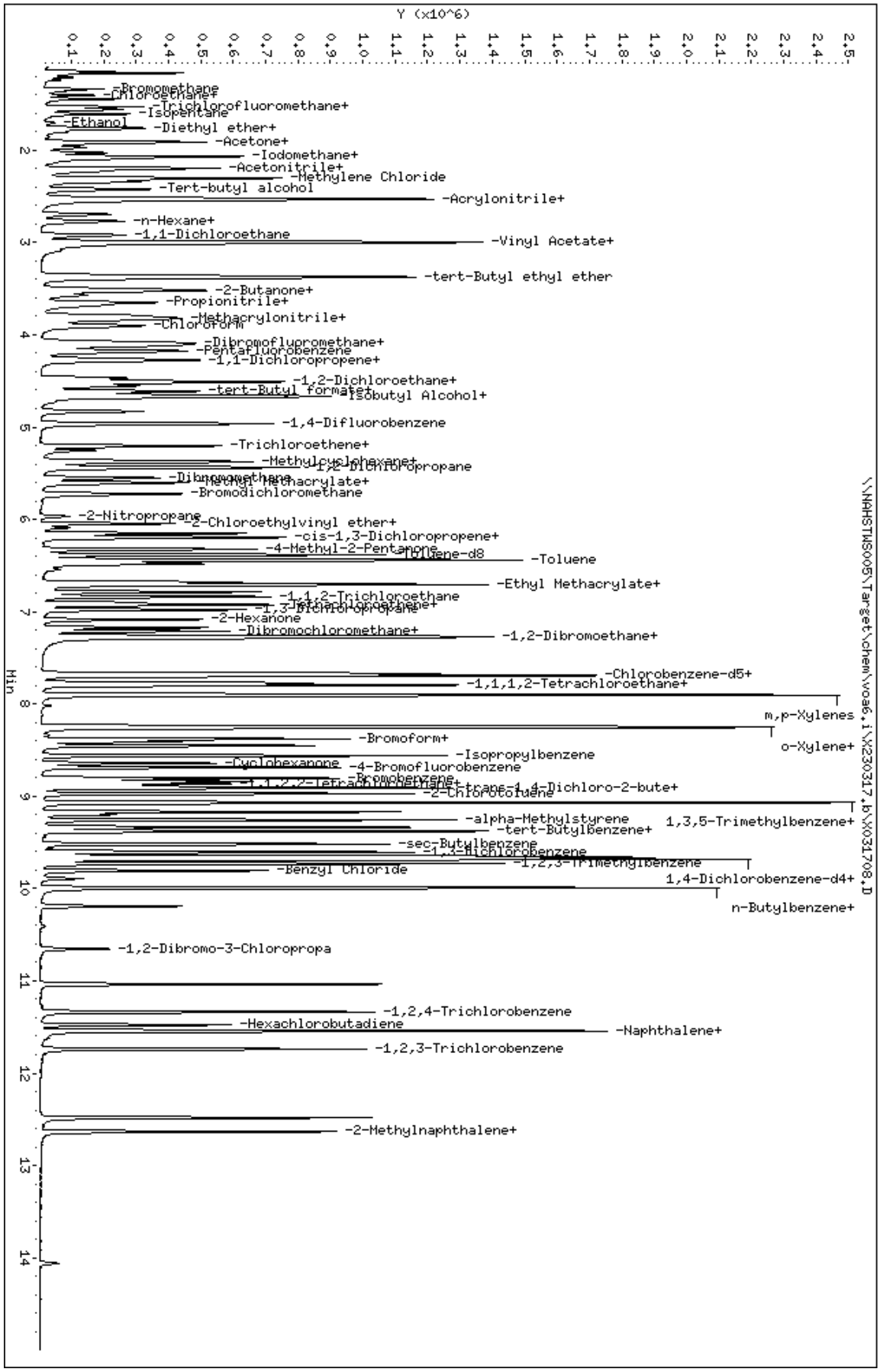
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	479849	50.0000	45.37	
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	647040	50.0000	47.51	
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	635488	50.0000	44.33	
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	597051	50.0000	46.67	
83	1,3-Dichlorobenzene	146	9.605	9.605	(0.994)	407797	50.0000	47.61	
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	425076	50.0000	46.17	
86	Benzyl Chloride	91	9.808	9.808	(1.279)	426174	50.0000	48.57	
87	n-Butylbenzene	91	9.992	9.992	(1.034)	492948	50.0000	47.81	
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	415464	50.0000	48.49	
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	47841	50.0000	48.44	
90	1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	309417	50.0000	49.40	
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	105547	50.0000	43.74	
92	Naphthalene	128	11.540	11.540	(1.194)	776382	50.0000	51.64	
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	294272	50.0000	49.10	
146	Methyl acetate	43	2.228	2.228	(0.533)	120116	50.0000	55.90	
138	Freon TF	101	1.913	1.913	(0.458)	91222	50.0000	44.28	
141	Cyclohexane	56	4.121	4.121	(0.987)	172149	50.0000	43.51	
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	63889	100.000	104.65	
147	Methylcyclohexane	55	5.377	5.377	(1.083)	416477	50.0000	50.72	
135	1,4-Dioxane	88	5.598	5.598	(1.340)	49172	1000.00	991.26	
132	n-Butanol	56	5.253	5.253	(1.258)	92688	1000.00	959.97	
131	Methyl Acrylate	55	3.686	3.686	(0.882)	193417	50.0000	49.95	
133	Ethyl Acrylate	55	5.377	5.377	(1.287)	416477	50.0000	51.05	
136	n-Hexane	57	2.772	2.772	(0.664)	126023	50.0000	49.94	
139	Diethyl ether	59	1.756	1.756	(0.420)	125530	50.0000	50.11	
148	Tert-butyl alcohol	59	2.423	2.423	(0.580)	393877	1000.00	1006.07	
149	Isopropyl alcohol	45	2.089	2.089	(0.500)	215502	1000.00	1030.13	
156	Diisopropyl ether	45	2.997	2.997	(0.717)	569349	50.0000	49.05	
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	371558	50.0000	50.00	
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	686753	50.0000	46.49	
167	Ethanol	45	1.703	1.703	(0.408)	33743	1000.00	1006.41	
172	tert-Butyl formate	59	4.612	4.612	(1.104)	317073	100.000	104.09	
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	409497	1000.00	958.91	
174	tert-Amyl methyl ether	73	4.661	4.661	(1.116)	615262	50.0000	45.99	
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.808)	591649	50.0000	48.66	
176	tert-Amyl alcohol	59	4.612	4.612	(1.104)	317073	1000.00	991.09	
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	835722	1000.00	962.95	
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	371558	50.0000	(a)	
140	1,3-Butadiene	54	1.164	1.164	(0.279)	124352	50.0000	49.04	
152	Amyl alcohol	42	6.899	6.899	(0.900)	102123	1000.00	1022.45	
158	Dichlorofluoromethane	67	1.531	1.531	(0.367)	228773	50.0000	49.39	
159	Propylene oxide	43	1.801	1.801	(0.431)	24664	100.000	105.75	
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	102539	1000.00	1060.15	
162	Butyl acrylate	55	8.248	8.248	(1.076)	415512	50.0000	50.79	
182	Epichlorohydrin	57	6.093	6.093	(1.227)	68301	200.000	201.35	
M 94	1,2-Dichloroethylene (total)	96				345819	100.000	(a)	
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	325877	50.0000	48.52	
130	Ethyl Acetate	43	3.653	3.653	(0.874)	194667	50.0000	50.41	
134	Cyclohexanone	55	8.642	8.642	(0.894)	181830	1000.00	993.98	
185	Isoprene	39	1.771	1.771	(0.424)	34797	50.0000	48.52	
188	Isopropyl acetate	43	4.672	4.672	(0.941)	529263	50.0000	49.15	
187	n-Amyl acetate	43	8.451	8.451	(1.102)	340673	50.0000	49.50	

189 n-Butyl acetate	43	7.210	7.210 (0.940)	307519	50.0000	52.39(H)
150 Allyl alcohol	57	2.772	2.772 (0.664)	126023	1000.00	999.35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.212	1.212	(0.290)	48915	200.000	219.37(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	436676	50.0000	49.86
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	400941	50.0000	55.24
202 Isobutylene	41	1.242	1.242	(0.297)	14468	50.0000	46.55(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	243042	50.0000	53.44

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;7;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031708.D
Inj Date : 17-MAR-2023 13:55
InstruID : voa6.i
LabSampID : VSTD050

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

MASS
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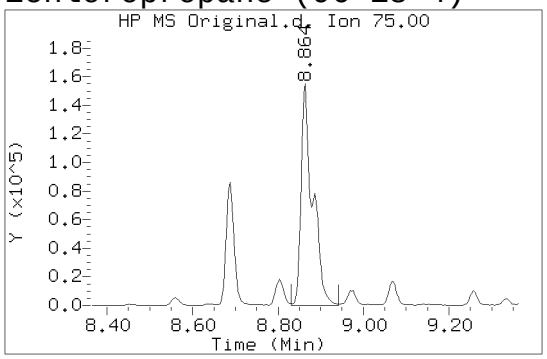
AREA
296531
HEIGHT
155088
30-Mar-2023
12:34
linh
pham



AFTER

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AREA
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HEIGHT
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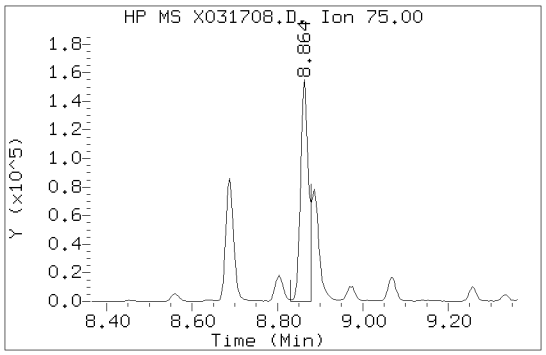
30-Mar-2023
12:41
linh
pham



BEFORE

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AREA
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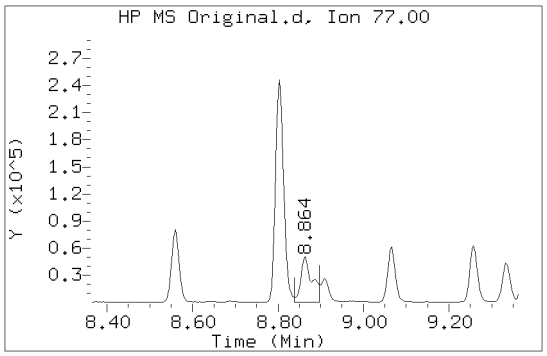
12:34
linh
pham



AFTER

MASS
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30-Mar-2023
12:41
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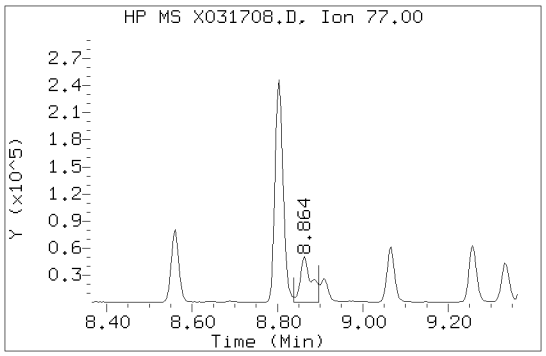
pham



Chloroprene (126-99-8)

Reason Code:

BEFORE

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HEIGHT
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30-Mar-2023
12:34
linh
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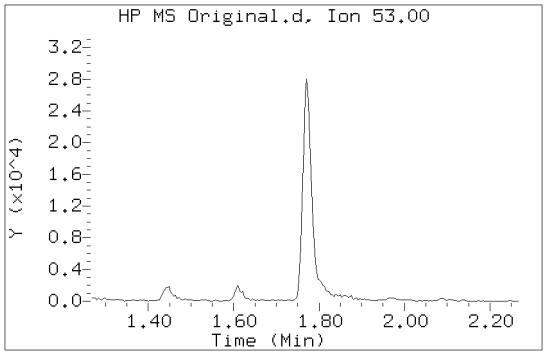

AFTER

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AREA
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HEIGHT
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12:41
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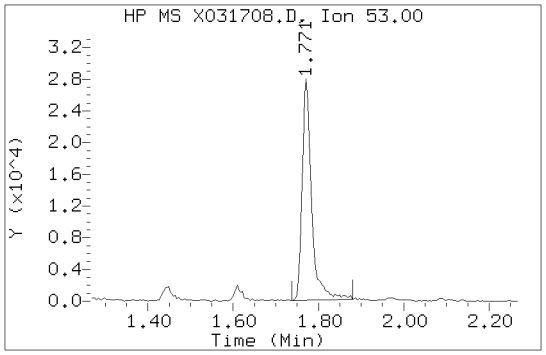

BEFORE

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HEIGHT
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12:34
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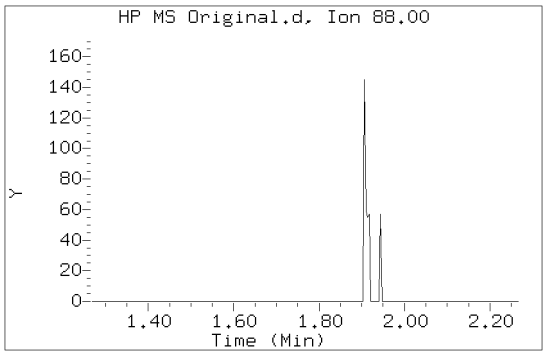

AFTER

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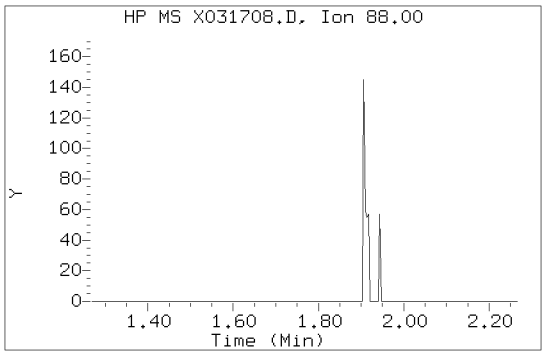

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Inj Date : 17-MAR-2023 13:55
InstruID : voa6.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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HEIGHT
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30-Mar-2023
12:34
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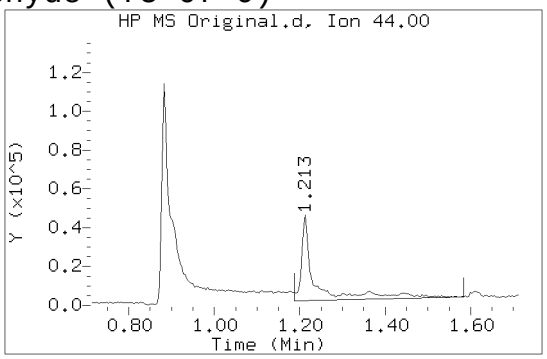

AFTER

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AREA
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HEIGHT
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30-Mar-2023
12:41
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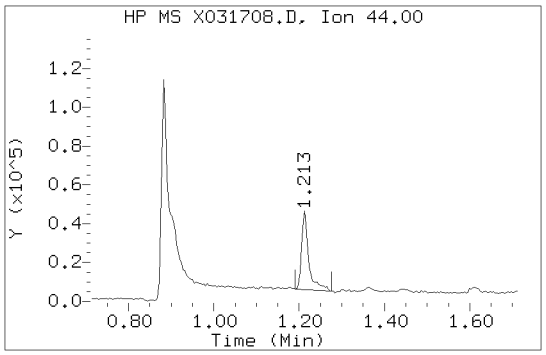

BEFORE

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AREA
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HEIGHT
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30-Mar-2023
12:34
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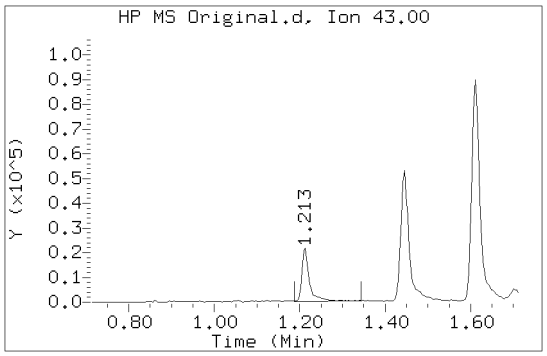
pham



AFTER

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30-Mar-2023
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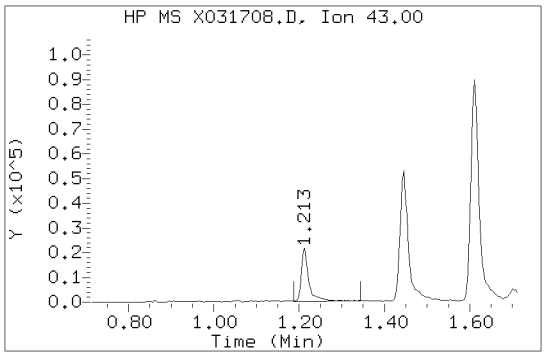

BEFORE

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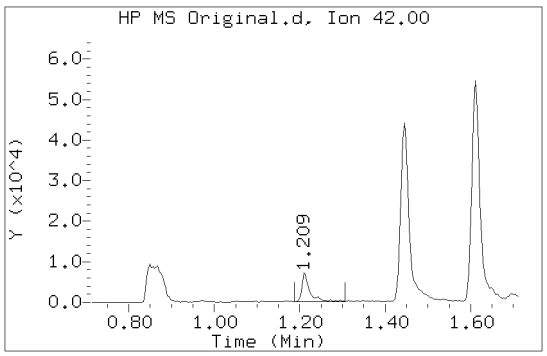

AFTER

MASS
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HEIGHT
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30-Mar-2023
12:41
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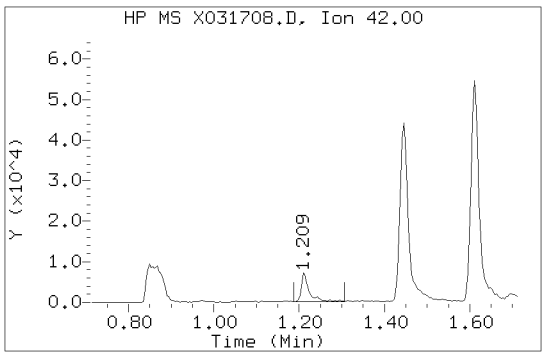

Isobutylene (115-11-7)

Reason Code:

BEFORE

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AREA
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HEIGHT
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30-Mar-2023
12:34
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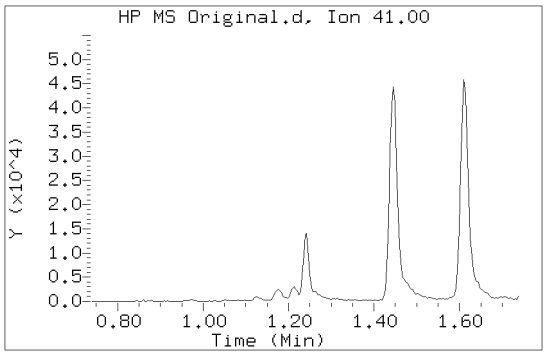
pham



AFTER

MASS
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AREA
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HEIGHT
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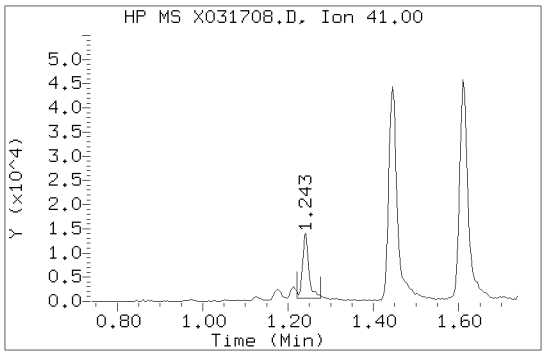
30-Mar-2023
12:41
linh
pham



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Inj Date : 17-MAR-2023 13:55
InstruID : voa6.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

BEFORE
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HEIGHT
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30-Mar-2023
12:34
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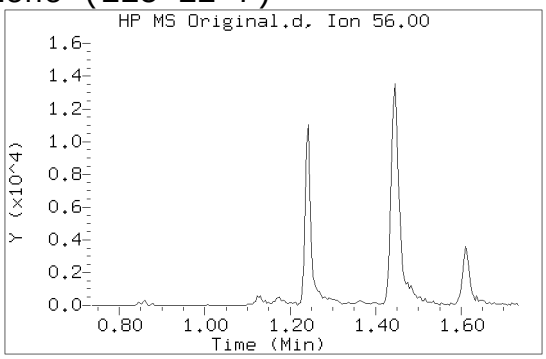

AFTER
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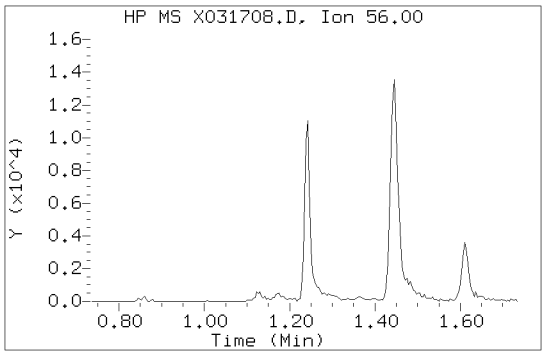

BEFORE
MASS
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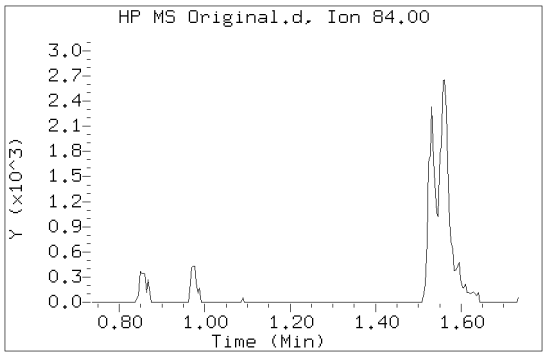

AFTER
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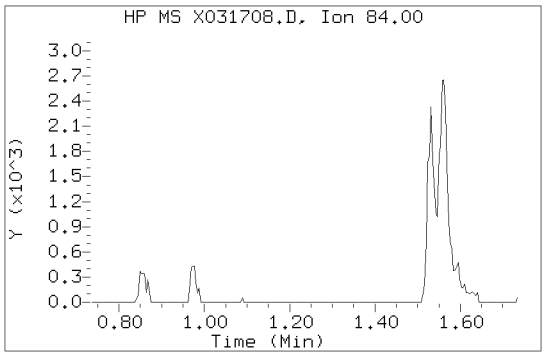

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031709.D Page 1
Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031709.D
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Inj Date : 17-MAR-2023 14:16
Operator : PC Inst ID: voa6.i
Smp Info : VSTD100;VSTD100;1;8;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.178	4.178	(1.000)	373326	50.0000	
	2 Dichlorodifluoromethane	85	0.972	0.972	(0.233)	277552	100.000	103.28
	3 Chloromethane	50	1.077	1.077	(0.258)	356664	100.000	103.86
	4 Propionitrile	54	3.649	3.649	(0.873)	500613	1000.00	951.68
	5 Vinyl Chloride	62	1.141	1.141	(0.273)	323679	100.000	110.07
	6 Bromomethane	94	1.336	1.336	(0.320)	172412	100.000	101.97
	7 Chloroethane	64	1.400	1.400	(0.335)	198128	100.000	95.00
	8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	383047	100.000	109.82
	9 Acrolein	56	1.441	1.441	(0.345)	43228	200.000	200.51
	10 Acetone	43	1.970	1.970	(0.472)	202318	200.000	212.66
	11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	221993	100.000	99.02
	12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	1027812	2000.00	2017.91
	13 Acetonitrile	39	2.194	2.194	(0.525)	351546	1000.00	1011.77
	14 Allyl Chloride	41	2.194	2.194	(0.525)	837914	100.000	97.49
	15 Iodomethane	142	2.026	2.026	(0.485)	585867	200.000	199.05
	16 Acrylonitrile	53	2.528	2.528	(0.605)	252967	200.000	203.05
	17 Methylene Chloride	84	2.299	2.299	(0.550)	376597	100.000	105.01
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	1106413	100.000	93.72
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	1741977	200.000	211.48
	20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	313441	100.000	99.12

21 Vinyl Acetate	43	2.993	2.993 (0.716)	1981655	200.000	207.98
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	568085	100.000	99.19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	103957	100.000	101.54(M)
	24 2-Butanone	43	3.570	3.570	(0.855)	280363	200.000	209.74
	25 Methacrylonitrile	41	3.818	3.818	(0.914)	333435	100.000	96.90(a)
	26 2,2-Dichloropropane	77	3.506	3.506	(0.839)	466243	100.000	103.62
	27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	376913	100.000	98.50
	28 Chloroform	83	3.904	3.904	(0.935)	596625	100.000	93.86
	29 Bromochloromethane	128	3.788	3.788	(0.907)	202913	100.000	93.70
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	363757	100.000	105.41
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	487144	100.000	102.49
	32 1,1-Dichloropropene	75	4.275	4.275	(0.861)	441031	100.000	104.91
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	468518	100.000	95.65
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	410835	100.000	102.08
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	399036	100.000	98.10
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	589182	50.0000	
	37 Benzene	78	4.507	4.507	(0.908)	1431863	100.000	98.83
	38 Trichloroethene	130	5.205	5.205	(1.048)	400557	100.000	102.64
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	506448	100.000	98.48
	40 Methyl Methacrylate	41	5.602	5.602	(1.341)	326581	100.000	98.10
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	327658	200.000	209.56
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	383165	100.000	98.14
	43 2-Nitropropane	43	5.966	5.966	(1.428)	109575	100.000	93.48(H)
	44 Dibromomethane	93	5.550	5.550	(1.118)	241011	100.000	96.77
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	694559	200.000	196.15
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	659873	100.000	101.58
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	559622	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1390406	100.000	100.22
	49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	405857	100.000	93.57
	50 Toluene	91	6.445	6.445	(0.841)	1494031	100.000	101.75
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	550884	100.000	102.15
	52 2-Hexanone	43	7.083	7.083	(0.924)	479633	200.000	197.36
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	304907	100.000	95.51
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	626632	100.000	98.77
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	450128	100.000	99.81
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	311869	100.000	105.95
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	396776	100.000	100.55
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	288303	100.000	100.14
	59 Chlorobenzene	112	7.690	7.690	(1.003)	1045060	100.000	99.59
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	404357	100.000	100.00
	61 Ethylbenzene	106	7.795	7.795	(1.017)	520880	100.000	100.87
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	1310496	200.000	201.65
	63 o-Xylene	106	8.241	8.241	(1.075)	649022	100.000	99.39
	64 Styrene	104	8.256	8.256	(1.077)	1112835	100.000	103.13
	66 Bromoform	173	8.410	8.410	(1.097)	318471	100.000	102.13
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	1551960	100.000	103.76
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	506447	100.000	95.00
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	535221	100.000	101.20
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	305929	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	374411	100.000	93.45
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	125897	100.000	100.52
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	1823425	100.000	107.24
	74 Bromobenzene	156	8.803	8.803	(0.911)	502549	100.000	102.17
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1382649	100.000	104.83

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	1136061	100.000	99.37
77	4-Chlorotoluene	91	9.066	9.066 (0.938)	1330298	100.000	103.24

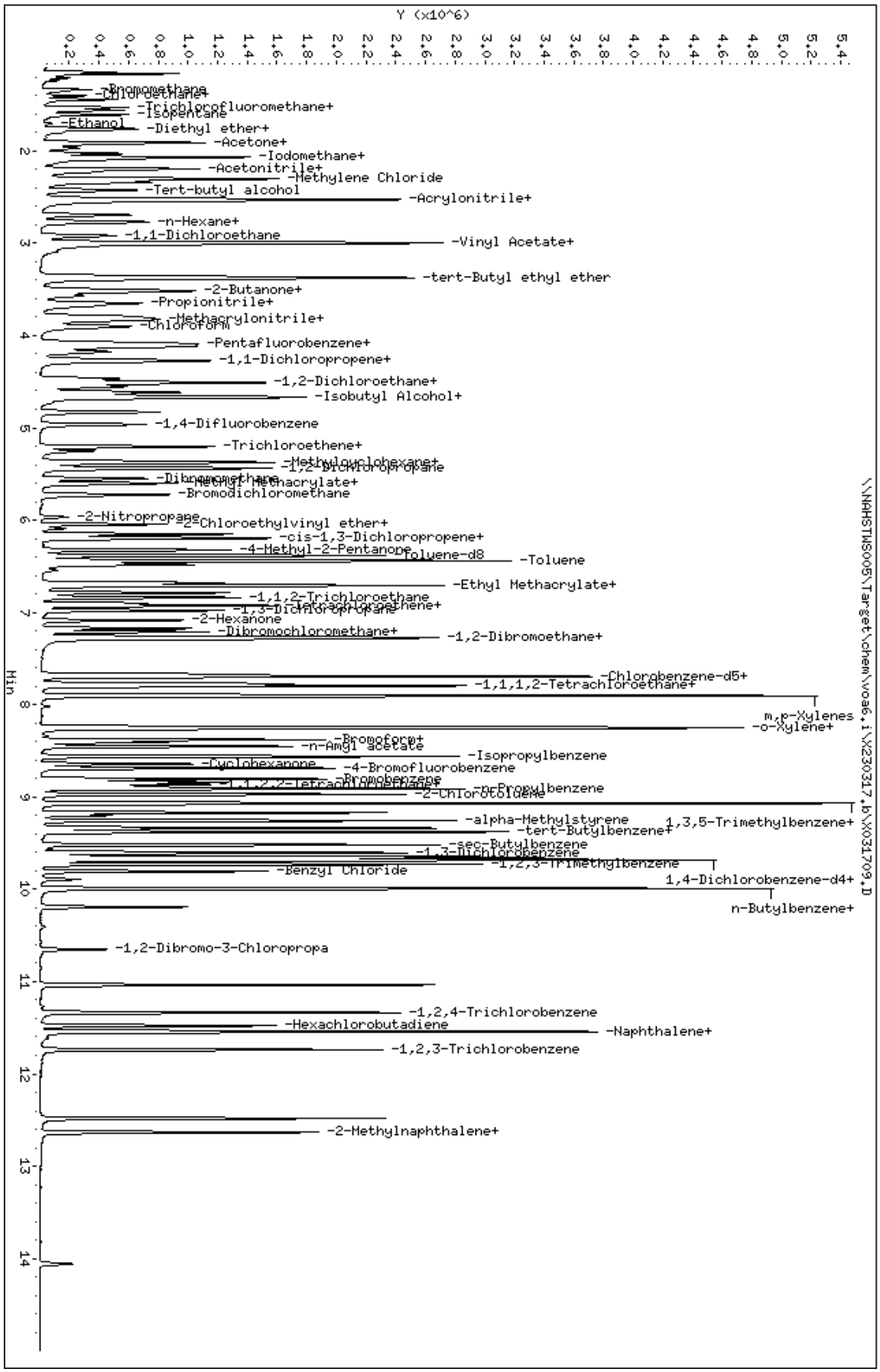
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	1129372	100.000	107.51
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1408896	100.000	104.16
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	1542474	100.000	108.34
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	1423483	100.000	112.05
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	869404	100.000	102.20
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	897147	100.000	98.12
86	Benzyl Chloride	91	9.804	9.804	(1.279)	885238	100.000	98.29
87	n-Butylbenzene	91	9.992	9.992	(1.034)	1188413	100.000	116.06
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	866723	100.000	101.86
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	98490	100.000	98.83
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	693645	100.000	111.50
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	283471	100.000	106.15
92	Naphthalene	128	11.540	11.540	(1.194)	1624520	100.000	108.80
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	651606	100.000	109.46
146	Methyl acetate	43	2.228	2.228	(0.533)	224921	100.000	104.81
138	Freon TF	101	1.913	1.913	(0.458)	233445	100.000	105.32
141	Cyclohexane	56	4.118	4.118	(0.986)	457578	100.000	106.56
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	116378	200.000	190.90
147	Methylcyclohexane	55	5.377	5.377	(1.083)	889964	100.000	109.39(A)
135	1,4-Dioxane	88	5.594	5.594	(1.339)	92798	2000.00	1873.30
132	n-Butanol	56	5.253	5.253	(1.258)	199313	2000.00	2030.57
131	Methyl Acrylate	55	3.683	3.683	(0.882)	416973	100.000	107.84
133	Ethyl Acrylate	55	5.377	5.377	(1.287)	889964	100.000	109.24
136	n-Hexane	57	2.768	2.768	(0.663)	370085	100.000	100.00
139	Diethyl ether	59	1.752	1.752	(0.419)	235295	100.000	94.06
148	Tert-butyl alcohol	59	2.427	2.427	(0.581)	765382	2000.00	1957.70
149	Isopropyl alcohol	45	2.093	2.093	(0.501)	428529	2000.00	2051.26
156	Diisopropyl ether	45	2.997	2.997	(0.717)	1123796	100.000	96.96
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	804932	100.000	109.05
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	1443919	100.000	98.41
167	Ethanol	45	1.703	1.703	(0.408)	62408	2000.00	1863.93
172	tert-Butyl formate	59	4.616	4.616	(1.105)	612085	200.000	201.21(A)
173	3,3-Dimethyl-1-butanol	57	7.285	7.285	(0.950)	798841	2000.00	1852.48
174	tert-Amyl methyl ether	73	4.665	4.665	(1.117)	1227733	100.000	91.90
175	tert-Butyl ethyl ether	59	3.372	3.372	(0.807)	1182106	100.000	97.37
176	tert-Amyl alcohol	59	4.616	4.616	(1.105)	612085	2000.00	1915.86
151	4-Methyl-2-pentanol	45	6.708	6.708	(1.351)	1637388	2000.00	1903.98
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	804932	100.000	(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	270902	100.000	107.00
152	Amyl alcohol	42	6.899	6.899	(0.900)	209583	2000.00	2077.98
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	450874	100.000	97.48
159	Propylene oxide	43	1.801	1.801	(0.431)	45025	200.000	193.32
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	210157	2000.00	2151.74
162	Butyl acrylate	55	8.249	8.249	(1.076)	809554	100.000	98.00
182	Epichlorohydrin	57	6.093	6.093	(1.227)	129213	400.000	384.42
M 94	1,2-Dichloroethylene (total)	96				690354	200.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	710271	100.000	106.49
130	Ethyl Acetate	43	3.649	3.649	(0.873)	374414	100.000	97.10
134	Cyclohexanone	55	8.642	8.642	(0.894)	343740	2000.00	1891.88
185	Isoprene	39	1.767	1.767	(0.423)	74498	100.000	104.02
188	Isopropyl acetate	43	4.672	4.672	(0.941)	1027473	100.000	96.31
187	n-Amyl acetate	43	8.451	8.451	(1.102)	671526	100.000	96.63

189 n-Butyl acetate	43	7.210	7.210 (0.940)	605118	100.000	102.09(H)
150 Allyl alcohol	57	2.768	2.768 (0.663)	370085	2000.00	2000.01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.212	1.212	(0.290)	91272	400.000	410.61(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	852352	100.000	96.38
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	832592	100.000	113.61
202 Isobutylene	41	1.239	1.239	(0.297)	30934	100.000	99.67(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	516446	100.000	114.34

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 17-MAR-2023 14:16
InstruID : voa6.i
LabSampID : VSTD100

Chloroprene (126-99-8)

Reason Code:

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12:34
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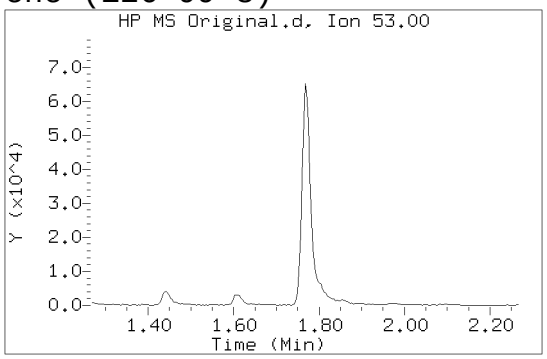

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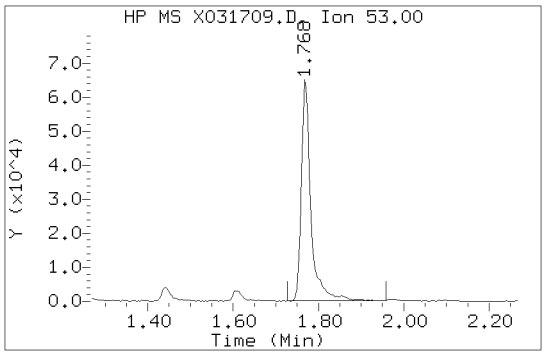

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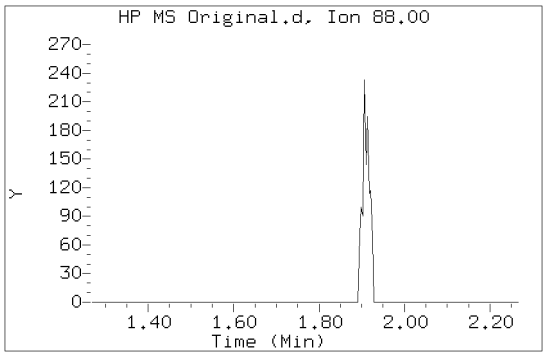

AFTER
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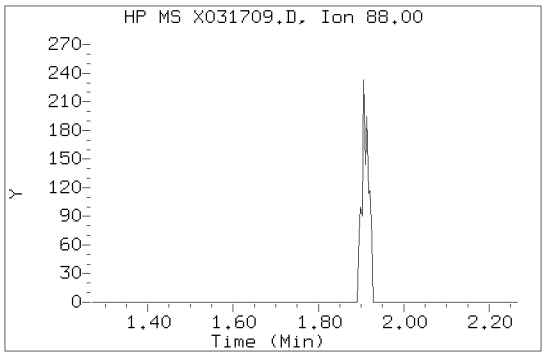

Acetaldehyde (75-07-0)

Reason Code:

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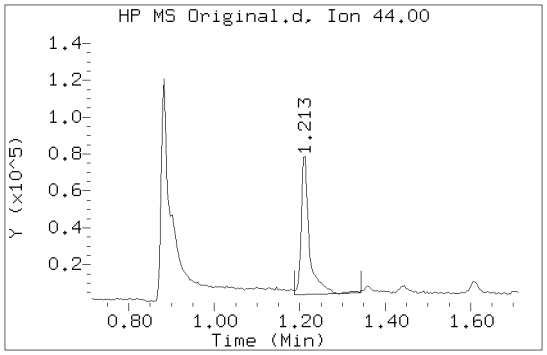

AFTER
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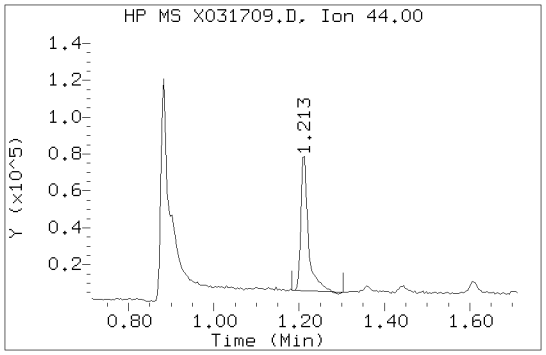

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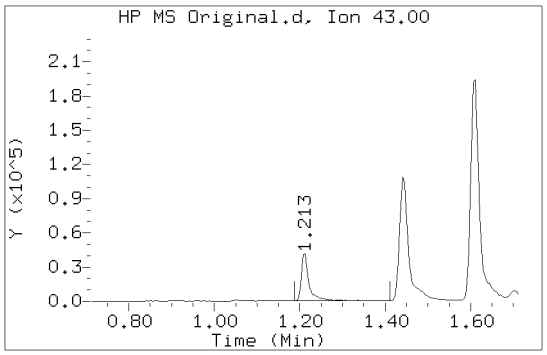

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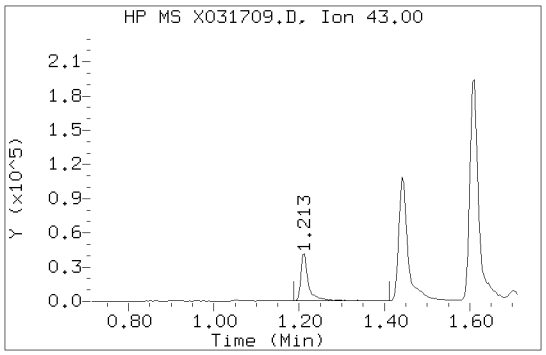

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InstruID : voa6.i
LabSampID : VSTD100

Acetaldehyde (75-07-0)

Reason Code:

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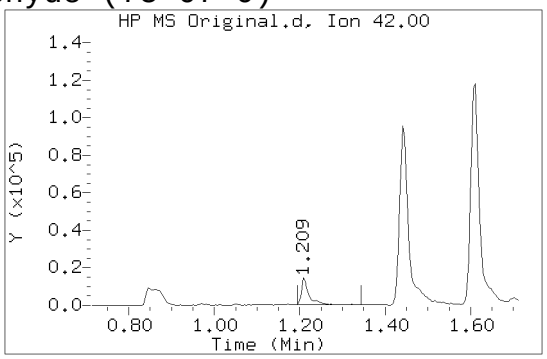

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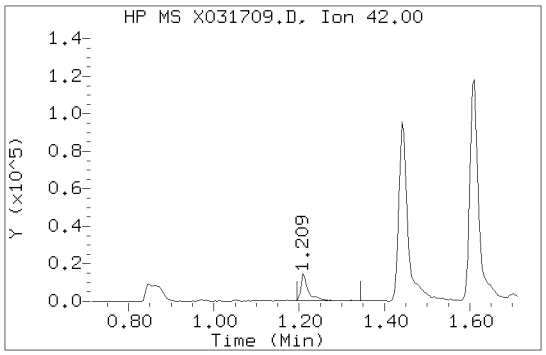

Isobutylene (115-11-7)

Reason Code:

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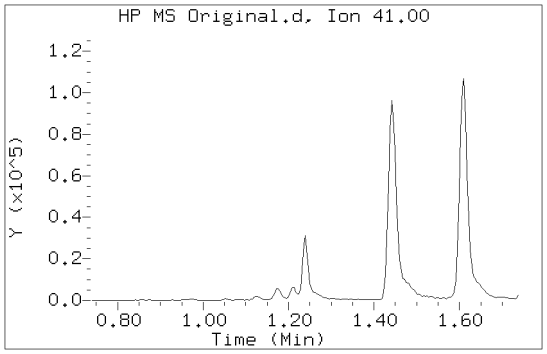

AFTER

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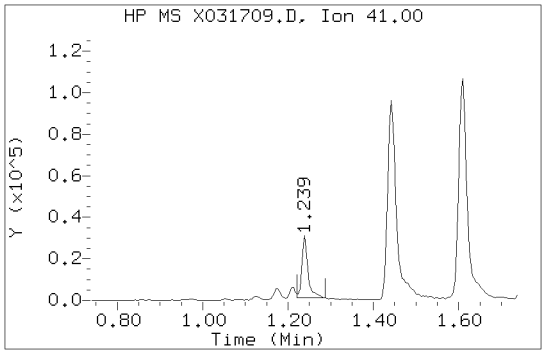

BEFORE

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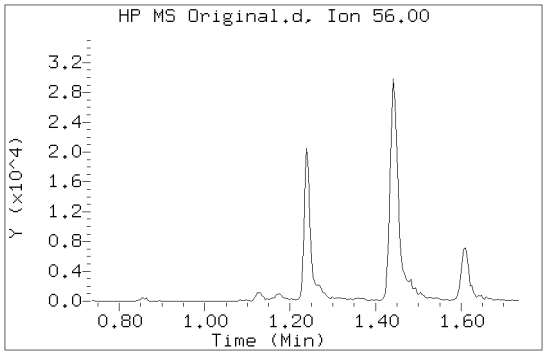

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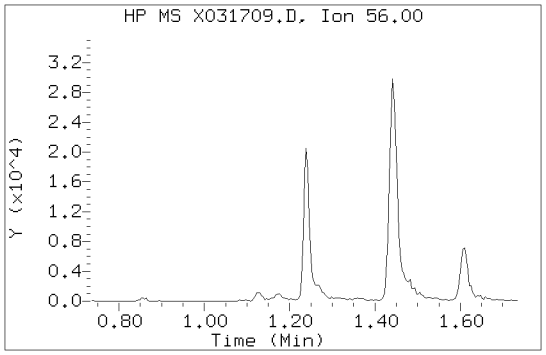

BEFORE

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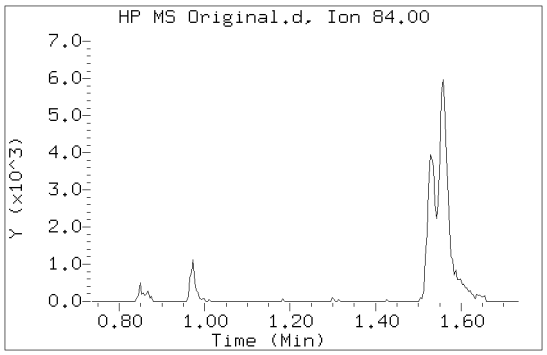

AFTER

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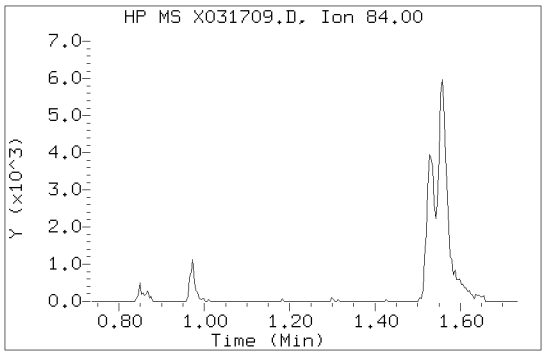

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Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031710.D
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Inj Date : 17-MAR-2023 14:37
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Smp Info : VSTD150;VSTD150;1;9;
Misc Info : V6;WATER;0;1;
Comment   :
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Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 14:16 Cal File: X031709.D
Als bottle: 11 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.177	4.177	(1.000)	360022	50.0000	
2	Dichlorodifluoromethane	85	0.972	0.972	(0.233)	404362	150.000	148.84
3	Chloromethane	50	1.077	1.077	(0.258)	545496	150.000	164.71
4	Propionitrile	54	3.645	3.645	(0.873)	675386	1500.00	1331.38
5	Vinyl Chloride	62	1.141	1.141	(0.273)	456072	150.000	160.83
6	Bromomethane	94	1.336	1.336	(0.320)	252433	150.000	154.82
7	Chloroethane	64	1.400	1.400	(0.335)	273745	150.000	136.12
8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	546040	150.000	162.34
9	Acrolein	56	1.441	1.441	(0.345)	65230	300.000	311.99
10	Acetone	43	1.970	1.970	(0.472)	258914	300.000	283.91
11	1,1-Dichloroethene	96	1.913	1.913	(0.458)	315932	150.000	146.13
12	Isobutyl Alcohol	43	4.672	4.672	(1.118)	1386063	3000.00	2821.83
13	Acetonitrile	39	2.194	2.194	(0.525)	483631	1500.00	1443.36
14	Allyl Chloride	41	2.194	2.194	(0.525)	1147277	150.000	138.42
15	Iodomethane	142	2.026	2.026	(0.485)	998873	300.000	314.95
16	Acrylonitrile	53	2.532	2.532	(0.606)	355305	300.000	295.73
17	Methylene Chloride	84	2.299	2.299	(0.550)	522386	150.000	151.81
18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	1507291	150.000	132.40
19	Carbon Disulfide	76	2.067	2.067	(0.495)	2561317	300.000	322.44
20	trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	441105	150.000	144.65

21 Vinyl Acetate	43	2.993	2.993 (0.716)	2688384	300.000	292.58
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	800341	150.000	144.92

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	148488	150.000	150.39(M)
	24 2-Butanone	43	3.570	3.570	(0.855)	381950	300.000	296.30
	25 Methacrylonitrile	41	3.814	3.814	(0.913)	442319	150.000	133.30(a)
	26 2,2-Dichloropropane	77	3.506	3.506	(0.839)	659792	150.000	152.17
	27 cis-1,2-Dichloroethene	96	3.521	3.521	(0.843)	526207	150.000	142.59
	28 Chloroform	83	3.900	3.900	(0.934)	832851	150.000	135.87
	29 Bromochloromethane	128	3.791	3.791	(0.908)	283104	150.000	135.57
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	489100	150.000	147.27
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	696517	150.000	151.95
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	629929	150.000	157.52
	33 1,2-Dichloroethane	62	4.552	4.552	(0.917)	669631	150.000	143.72
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	594286	150.000	155.24
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	545784	150.000	138.70
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	560454	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	2038961	150.000	147.95
	38 Trichloroethene	130	5.205	5.205	(1.048)	575466	150.000	155.03
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	718783	150.000	146.93
	40 Methyl Methacrylate	41	5.602	5.602	(1.341)	437883	150.000	136.40
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	455925	300.000	306.54
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	535458	150.000	144.17
	43 2-Nitropropane	43	5.966	5.966	(1.428)	153482	150.000	135.78(H)
	44 Dibromomethane	93	5.549	5.549	(1.118)	337672	150.000	142.54
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	966015	300.000	282.73
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	942525	150.000	152.54
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	539996	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	1880549	150.000	140.48
	49 Ethyl Methacrylate	69	6.712	6.712	(1.352)	574510	150.000	139.24
	50 Toluene	91	6.445	6.445	(0.841)	2120957	150.000	149.70
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	793381	150.000	154.66
	52 2-Hexanone	43	7.086	7.086	(0.924)	667149	300.000	284.50
	53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	427729	150.000	138.86
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	887204	150.000	144.92
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	650760	150.000	149.55
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	445786	150.000	156.96
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	559643	150.000	146.99
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	412465	150.000	149.49
	59 Chlorobenzene	112	7.690	7.690	(1.003)	1511690	150.000	149.30
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	592699	150.000	151.91
	61 Ethylbenzene	106	7.799	7.799	(1.017)	759617	150.000	152.45
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	1886888	300.000	300.90
	63 o-Xylene	106	8.241	8.241	(1.075)	931024	150.000	147.75
	64 Styrene	104	8.256	8.256	(1.077)	1605850	150.000	154.23
	66 Bromoform	173	8.410	8.410	(1.097)	468208	150.000	155.61
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	2232488	150.000	154.69
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	728449	150.000	140.90
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	758344	150.000	148.68
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	296706	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	618448	150.000	159.17
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	181079	150.000	149.57
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	2643795	150.000	160.32
	74 Bromobenzene	156	8.803	8.803	(0.911)	733579	150.000	153.78
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1997400	150.000	156.16

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	1681359	150.000	151.64
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	1932295	150.000	154.62

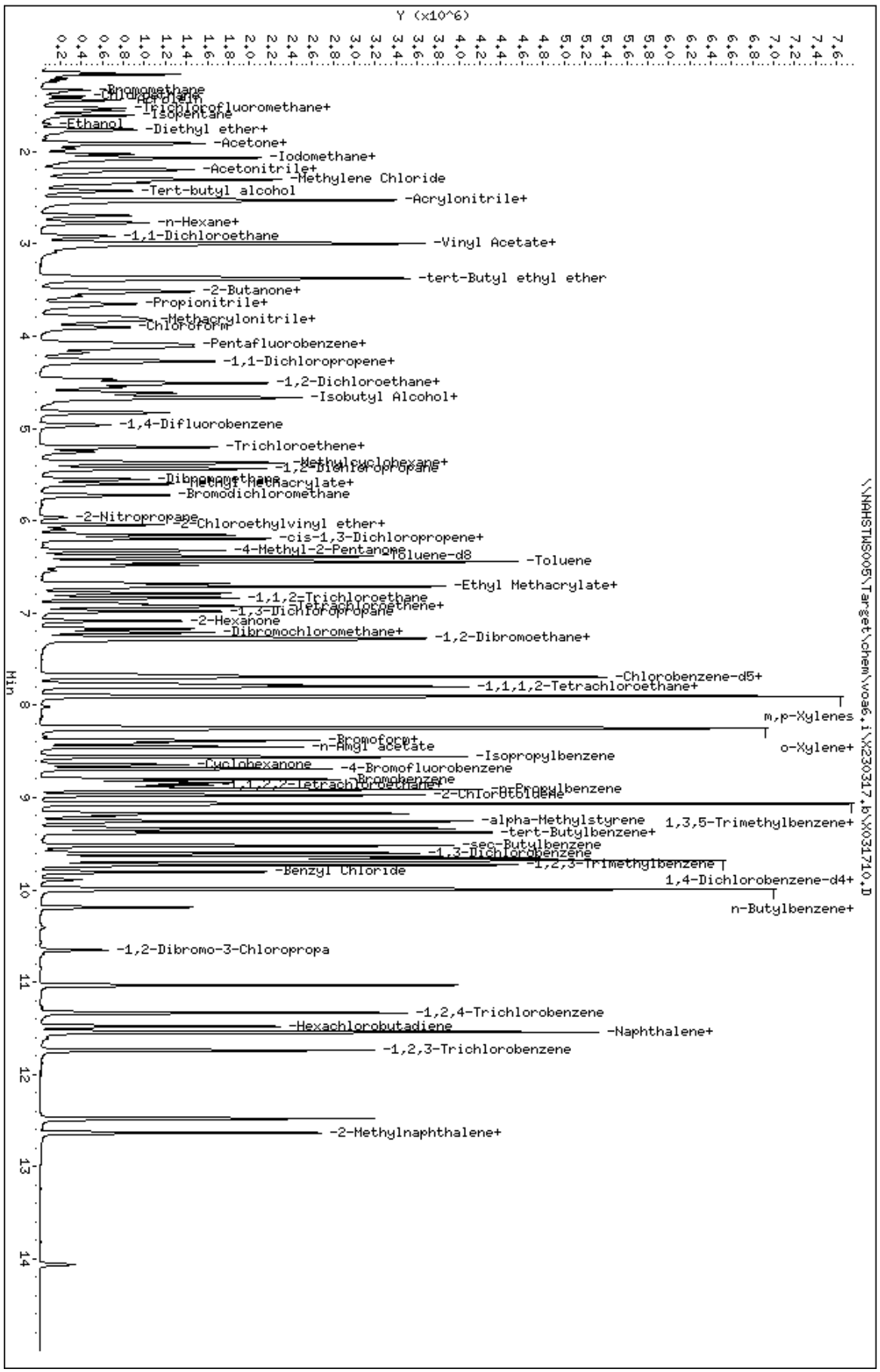
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	1627651	150.000	159.77
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	2043656	150.000	155.79
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	2257002	150.000	163.45
82	p-Isopropyltoluene	119	9.650	9.650	(0.999)	2060292	150.000	167.21
83	1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	1265740	150.000	153.41
84	1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	1295932	150.000	146.14
86	Benzyl Chloride	91	9.804	9.804	(1.279)	1294607	150.000	148.17
87	n-Butylbenzene	91	9.992	9.992	(1.034)	1709547	150.000	172.15
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	1253901	150.000	151.95
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	139207	150.000	143.35
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	995398	150.000	164.99
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	412820	150.000	147.67
92	Naphthalene	128	11.540	11.540	(1.194)	2264623	150.000	156.39
93	1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	908422	150.000	157.35
146	Methyl acetate	43	2.228	2.228	(0.533)	306447	150.000	148.08
138	Freon TF	101	1.913	1.913	(0.458)	333134	150.000	147.97
141	Cyclohexane	56	4.121	4.121	(0.987)	641070	150.000	147.34
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	154659	300.000	263.06
147	Methylcyclohexane	55	5.377	5.377	(1.083)	1263502	150.000	163.27(A)
135	1,4-Dioxane	88	5.602	5.602	(1.341)	133909	3000.00	2803.10
132	n-Butanol	56	5.253	5.253	(1.258)	285255	3000.00	2998.18
131	Methyl Acrylate	55	3.683	3.683	(0.882)	563933	150.000	151.24
133	Ethyl Acrylate	55	5.377	5.377	(1.287)	1263502	150.000	160.82
136	n-Hexane	57	2.768	2.768	(0.663)	525312	150.000	98.41
139	Diethyl ether	59	1.756	1.756	(0.420)	319485	150.000	132.43
148	Tert-butyl alcohol	59	2.427	2.427	(0.581)	1049842	3000.00	2784.53
149	Isopropyl alcohol	45	2.093	2.093	(0.501)	588937	3000.00	2923.27
156	Diisopropyl ether	45	2.997	2.997	(0.717)	1507494	150.000	134.87
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	1120935	150.000	156.59
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	2095307	150.000	147.25
167	Ethanol	45	1.700	1.700	(0.407)	82527	3000.00	2555.91
172	tert-Butyl formate	59	4.616	4.616	(1.105)	850071	300.000	289.78(A)
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	1139904	3000.00	2739.47
174	tert-Amyl methyl ether	73	4.665	4.665	(1.117)	1735204	150.000	134.69
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.808)	1615721	150.000	138.00
176	tert-Amyl alcohol	59	4.616	4.616	(1.105)	850071	3000.00	2759.10
151	4-Methyl-2-pentanol	45	6.712	6.712	(1.352)	2309789	3000.00	2823.53
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	1120935	150.000	(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	379473	150.000	155.42
152	Amyl alcohol	42	6.899	6.899	(0.900)	299929	3000.00	3081.83
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	633511	150.000	142.03
159	Propylene oxide	43	1.801	1.801	(0.431)	46947	300.000	209.02(M)
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	293949	3000.00	3119.05
162	Butyl acrylate	55	8.249	8.249	(1.076)	1162675	150.000	145.87
182	Epichlorohydrin	57	6.093	6.093	(1.227)	178760	600.000	559.09
M 94	1,2-Dichloroethylene (total)	96				967312	300.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	1026967	150.000	158.75
130	Ethyl Acetate	43	3.653	3.653	(0.874)	505997	150.000	136.07
134	Cyclohexanone	55	8.642	8.642	(0.894)	463882	3000.00	2632.48
185	Isoprene	39	1.771	1.771	(0.424)	103972	150.000	150.54
188	Isopropyl acetate	43	4.672	4.672	(0.941)	1386824	150.000	136.65
187	n-Amyl acetate	43	8.451	8.451	(1.102)	984651	150.000	146.84

189 n-Butyl acetate	43	7.210	7.210 (0.940)	861499	150.000	150.64(H)
150 Allyl alcohol	57	2.768	2.768 (0.663)	525312	3000.00	1965.60

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.212	1.212	(0.290)	122135	600.000	570.08(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	1201062	150.000	140.75
200 Dimethyl Disulfide	94	6.194	6.194	(0.808)	1183481	150.000	167.36
202 Isobutylene	41	1.239	1.239	(0.297)	44113	150.000	147.39(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	745586	150.000	170.21

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 17-MAR-2023 14:37
InstruID : voa6.i
LabSampID : VSTD150

Chloroprene (126-99-8)

Reason Code:

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30-Mar-2023
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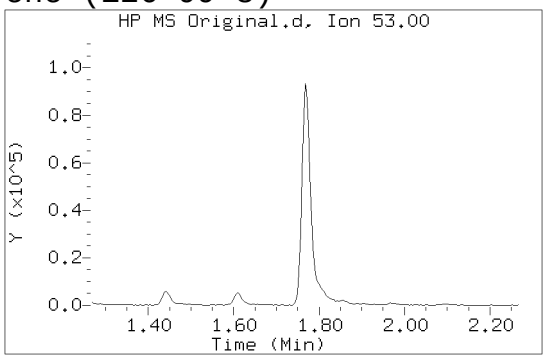

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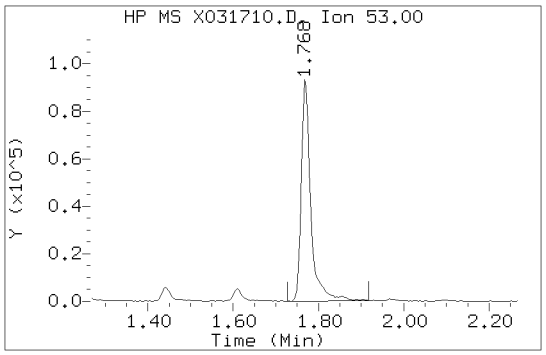

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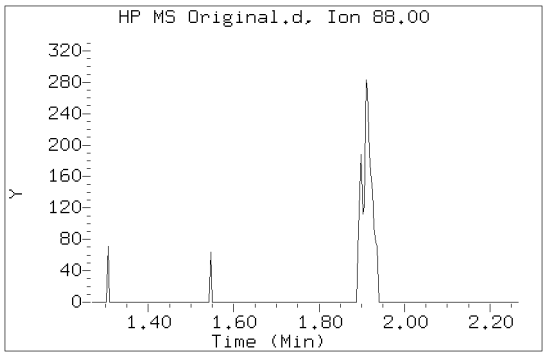

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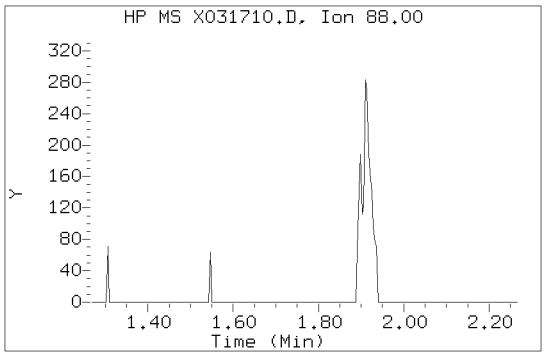

Propylene oxide ()

Reason Code:

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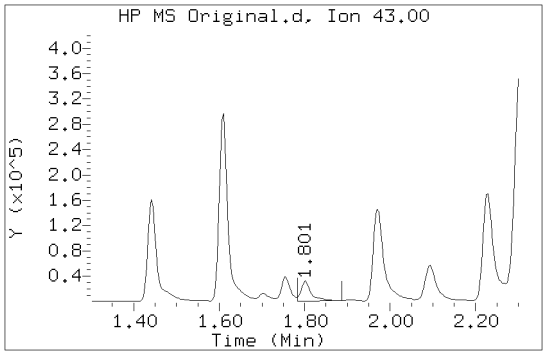

AFTER
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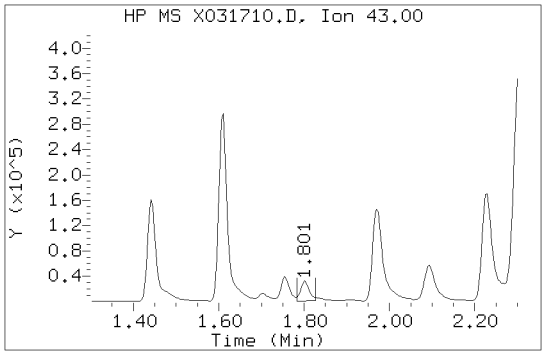

BEFORE
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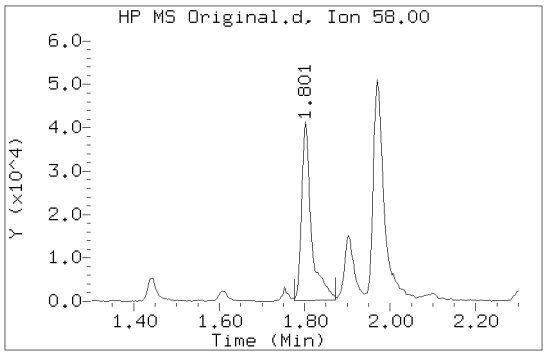

AFTER
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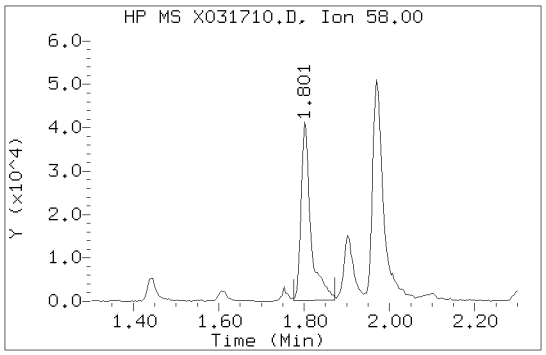

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Inj Date : 17-MAR-2023 14:37
InstruID : voa6.i
LabSampID : VSTD150

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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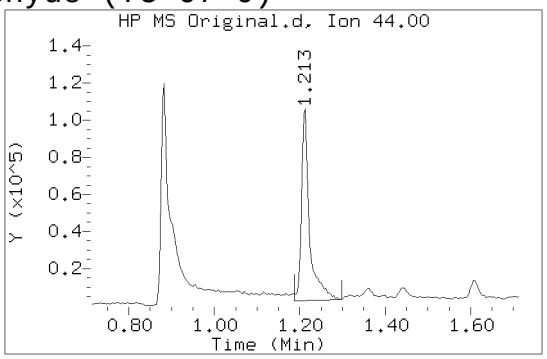

AFTER

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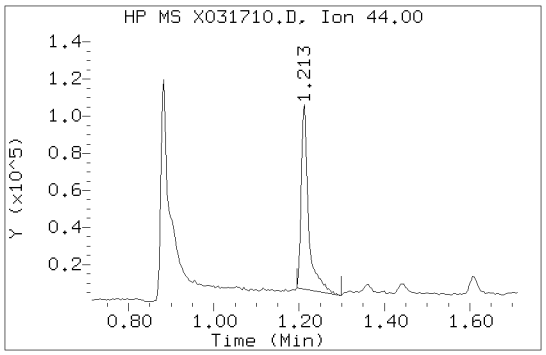

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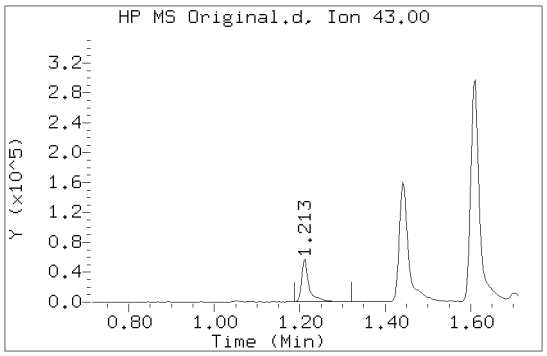

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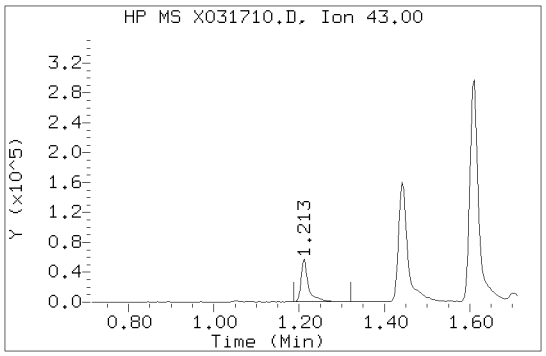

BEFORE

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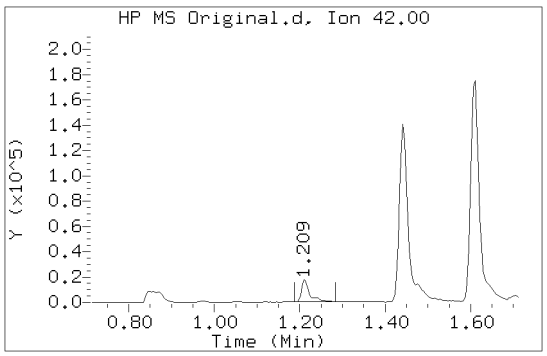

AFTER

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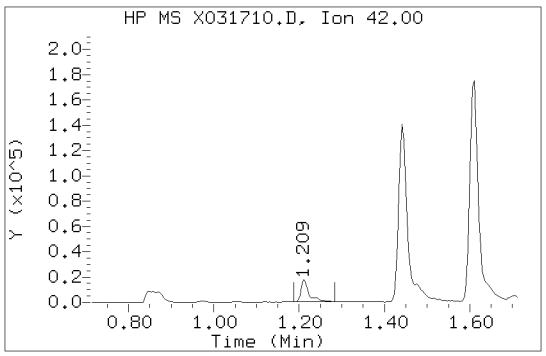

Isobutylene (115-11-7)

Reason Code:

BEFORE

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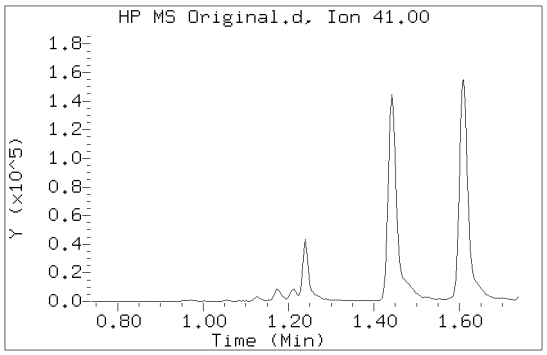

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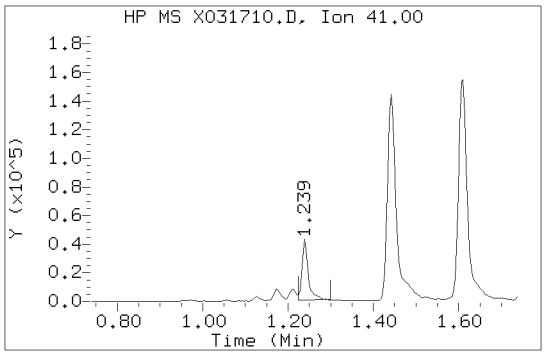

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Isobutylene (115-11-7)

Reason Code:

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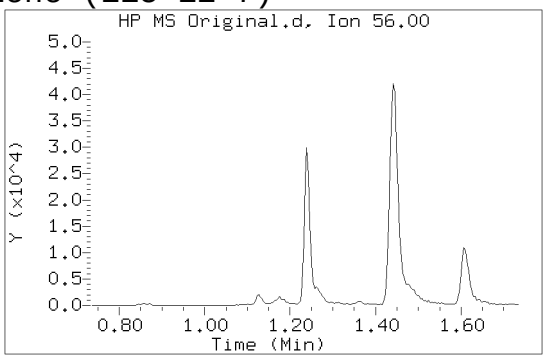

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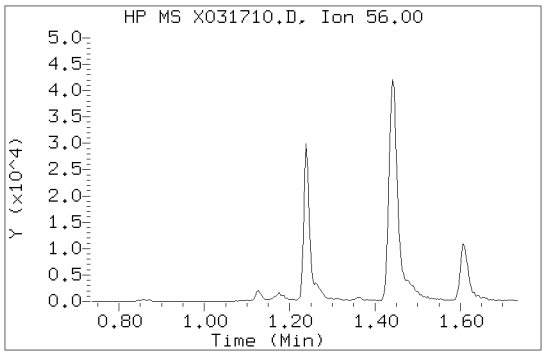

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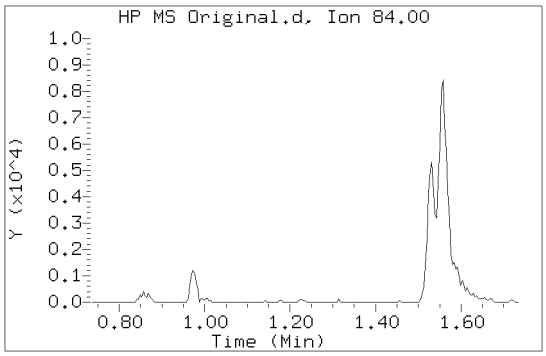

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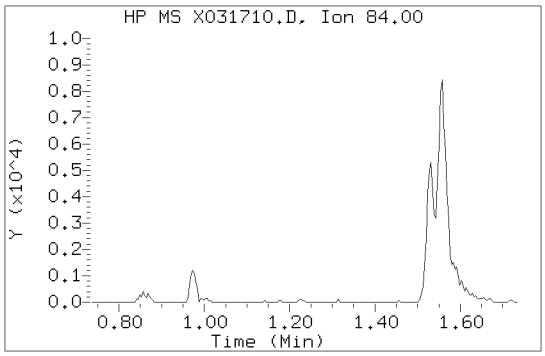

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Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031711.D
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Inj Date : 17-MAR-2023 14:58
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Smp Info : VSTD200;VSTD200;1;10;
Misc Info : V6;WATER;0;1;
Comment   :
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Cal Date : 17-MAR-2023 14:37 Cal File: X031710.D
Als bottle: 12 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.174	4.174	(1.000)	382623	50.0000	
2 Dichlorodifluoromethane	85	0.972	0.972	(0.233)	508155	200.000	171.49
3 Chloromethane	50	1.077	1.077	(0.258)	747416	200.000	212.36(A)
4 Propionitrile	54	3.649	3.649	(0.874)	1060690	2000.00	1967.42
5 Vinyl Chloride	62	1.141	1.141	(0.273)	609345	200.000	202.19(A)
6 Bromomethane	94	1.332	1.332	(0.319)	322590	200.000	186.17
7 Chloroethane	64	1.400	1.400	(0.335)	364656	200.000	170.61
8 Trichlorofluoromethane	101	1.557	1.557	(0.373)	727031	200.000	203.38(A)
9 Acrolein	56	1.441	1.441	(0.345)	87434	400.000	392.68
10 Acetone	43	1.970	1.970	(0.472)	386486	400.000	400.87(A)
11 1,1-Dichloroethene	96	1.910	1.910	(0.458)	428270	200.000	186.39
12 Isobutyl Alcohol	43	4.672	4.672	(1.119)	2338866	4000.00	4480.35(A)
13 Acetonitrile	39	2.194	2.194	(0.526)	701809	2000.00	1970.78
14 Allyl Chloride	41	2.194	2.194	(0.526)	1676095	200.000	190.28
15 Iodomethane	142	2.026	2.026	(0.485)	1450729	400.000	392.56
16 Acrylonitrile	53	2.528	2.528	(0.606)	532477	400.000	417.02(A)
17 Methylene Chloride	84	2.299	2.299	(0.551)	711938	200.000	195.16
18 Methyl tert-butyl ether	73	2.532	2.532	(0.607)	2152991	200.000	177.95
19 Carbon Disulfide	76	2.067	2.067	(0.495)	3489173	400.000	413.30(A)
20 trans-1,2-Dichloroethene	96	2.524	2.524	(0.605)	599454	200.000	184.97

21 Vinyl Acetate	43	2.993	2.993 (0.717)	3897625	400.000	399.13
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	1123384	200.000	191.40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	1.767	1.767	(0.423)	196404	200.000	187.17(M)
	24 2-Butanone	43	3.570	3.570	(0.855)	597331	400.000	436.01(A)
	25 Methacrylonitrile	41	3.814	3.814	(0.914)	701077	200.000	198.80(a)
	26 2,2-Dichloropropane	77	3.507	3.507	(0.840)	905769	200.000	196.64
	27 cis-1,2-Dichloroethene	96	3.522	3.522	(0.844)	740213	200.000	188.74
	28 Chloroform	83	3.900	3.900	(0.934)	1193616	200.000	183.23
	29 Bromochloromethane	128	3.788	3.788	(0.908)	405212	200.000	182.58
$	30 Dibromofluoromethane	113	4.095	4.095	(0.981)	702510	200.000	199.31
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.978)	985300	200.000	202.26(A)
	32 1,1-Dichloropropene	75	4.275	4.275	(0.862)	929663	200.000	203.52(A)
	33 1,2-Dichloroethane	62	4.552	4.552	(0.918)	1038702	200.000	195.17
	34 Carbon Tetrachloride	117	4.260	4.260	(0.859)	870574	200.000	199.09
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.070)	874210	200.000	208.52(A)
*	36 1,4-Difluorobenzene	114	4.961	4.961	(1.000)	640185	50.0000	
	37 Benzene	78	4.507	4.507	(0.909)	3052433	200.000	193.90
	38 Trichloroethene	130	5.201	5.201	(1.048)	835702	200.000	197.09
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	1118953	200.000	200.24(A)
	40 Methyl Methacrylate	41	5.602	5.602	(1.342)	750946	200.000	220.10(A)
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.218)	728191	400.000	428.62(A)
	42 1,2-Dichloropropane	63	5.433	5.433	(1.095)	833776	200.000	196.54
	43 2-Nitropropane	43	5.966	5.966	(1.429)	271652	200.000	226.13(AH)
	44 Dibromomethane	93	5.550	5.550	(1.119)	523396	200.000	193.42
	45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	1658099	400.000	427.93(A)
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.240)	1474080	200.000	208.85(A)
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	612379	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	2796978	200.000	184.24
	49 Ethyl Methacrylate	69	6.715	6.715	(1.354)	978643	200.000	207.65
	50 Toluene	91	6.445	6.445	(0.841)	3187867	200.000	198.41
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.346)	1252849	200.000	213.82(A)
	52 2-Hexanone	43	7.086	7.086	(0.924)	1164187	400.000	437.78(A)
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	673694	200.000	192.86
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	1376622	200.000	198.29
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	1002838	200.000	203.22(A)
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	638334	200.000	198.19
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	878199	200.000	203.39(A)
	58 1-Chlorohexane	55	7.694	7.694	(1.551)	638798	200.000	201.88(A)
	59 Chlorobenzene	112	7.694	7.694	(1.003)	2272370	200.000	197.91
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	910994	200.000	205.89(A)
	61 Ethylbenzene	106	7.799	7.799	(1.017)	1107853	200.000	196.05
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	2838121	400.000	399.10
	63 o-Xylene	106	8.241	8.241	(1.075)	1395031	200.000	195.22
	64 Styrene	104	8.256	8.256	(1.077)	2393440	200.000	202.70(A)
	66 Bromoform	173	8.410	8.410	(1.097)	724955	200.000	212.46(A)
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	3313382	200.000	202.45(A)
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	1195955	200.000	204.13(A)
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	1161000	200.000	200.79(A)
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	336227	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	864319	200.000	196.30
	72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	309734	200.000	225.33(A)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	3859840	200.000	206.55(A)
	74 Bromobenzene	156	8.803	8.803	(0.911)	1119674	200.000	207.13(A)
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	2992359	200.000	206.45(A)

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	2505512	200.000	199.41
77	4-Chlorotoluene	91	9.069	9.069 (0.939)	2968864	200.000	209.64(A)

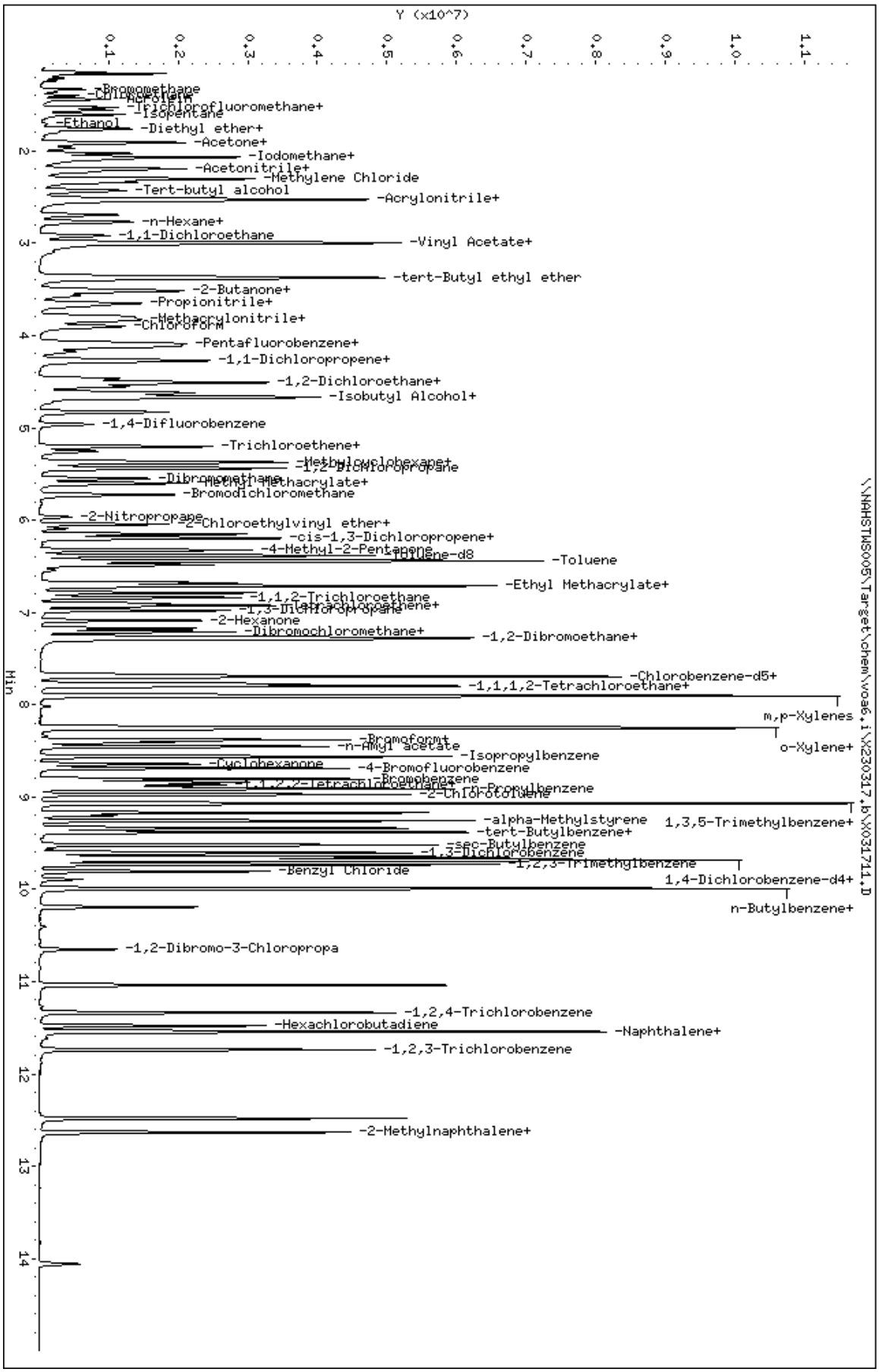
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	2279547	200.000	197.45
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	2919311	200.000	196.38
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	3349438	200.000	214.06(A)
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	3003074	200.000	215.08(A)
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	1888740	200.000	202.01(A)
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	1970060	200.000	196.05
86	Benzyl Chloride	91	9.808	9.808	(1.279)	2013195	200.000	202.61(A)
87	n-Butylbenzene	91	9.992	9.992	(1.034)	2523960	200.000	224.29(A)
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	1856903	200.000	198.57
89	1,2-Dibromo-3-Chloropropane	155	10.651	10.651	(1.102)	226912	200.000	205.56(A)
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	1440571	200.000	210.71(A)
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	573515	200.000	171.65
92	Naphthalene	128	11.540	11.540	(1.194)	3504081	200.000	213.55(A)
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	1347744	200.000	206.01(A)
146	Methyl acetate	43	2.224	2.224	(0.533)	464224	200.000	211.08(A)
138	Freon TF	101	1.910	1.910	(0.458)	434707	200.000	175.10
141	Cyclohexane	56	4.121	4.121	(0.987)	901709	200.000	185.25
142	Tetrahydrofuran	42	3.840	3.840	(0.920)	246866	400.000	395.10
147	Methylcyclohexane	55	5.377	5.377	(1.084)	2015199	200.000	227.98(A)
135	1,4-Dioxane	88	5.602	5.602	(1.342)	215437	4000.00	4243.34(A)
132	n-Butanol	56	5.253	5.253	(1.259)	490231	4000.00	4828.66(A)
131	Methyl Acrylate	55	3.679	3.679	(0.881)	865912	200.000	218.52(A)
133	Ethyl Acrylate	55	5.377	5.377	(1.288)	2015199	200.000	241.35(A)
136	n-Hexane	57	2.768	2.768	(0.663)	676168	200.000	80.35
139	Diethyl ether	59	1.756	1.756	(0.421)	465264	200.000	181.47
148	Tert-butyl alcohol	59	2.431	2.431	(0.582)	1646951	4000.00	4110.24(A)
149	Isopropyl alcohol	45	2.097	2.097	(0.502)	904875	4000.00	4226.17(A)
156	Diisopropyl ether	45	2.997	2.997	(0.718)	2153852	200.000	181.31
160	2-Methylnaphthalene	142	12.634	12.634	(1.308)	1815775	200.000	223.84(A)
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	3136262	200.000	194.50
167	Ethanol	45	1.703	1.703	(0.408)	115616	4000.00	3369.19
172	tert-Butyl formate	59	4.620	4.620	(1.107)	1512520	400.000	485.15(A)
173	3,3-Dimethyl-1-butanol	57	7.289	7.289	(0.951)	1974305	4000.00	4183.91(A)
174	tert-Amyl methyl ether	73	4.665	4.665	(1.118)	2849607	200.000	208.13(A)
175	tert-Butyl ethyl ether	59	3.375	3.375	(0.809)	2317574	200.000	186.26
176	tert-Amyl alcohol	59	4.620	4.620	(1.107)	1512520	4000.00	4619.26(A)
151	4-Methyl-2-pentanol	45	6.715	6.715	(1.354)	4066831	4000.00	4352.23(A)
180	1-Methylnaphthalene	142	12.634	12.634	(1.308)	1815775	200.000	(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	513913	200.000	198.05
152	Amyl alcohol	42	6.899	6.899	(0.900)	541570	4000.00	4906.99(A)
158	Dichlorofluoromethane	67	1.527	1.527	(0.366)	872859	200.000	184.14
159	Propylene oxide	43	1.801	1.801	(0.432)	67647	400.000	283.39(M)
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	514576	4000.00	4814.71(A)
162	Butyl acrylate	55	8.249	8.249	(1.076)	1894255	200.000	209.56(A)
182	Epichlorohydrin	57	6.093	6.093	(1.228)	300828	800.000	823.70(A)
M 94	1,2-Dichloroethylene (total)	96				1339667	400.000	(a)
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	1552688	200.000	211.81(A)
130	Ethyl Acetate	43	3.649	3.649	(0.874)	758155	200.000	191.84
134	Cyclohexanone	55	8.642	8.642	(0.894)	768170	4000.00	3846.88
185	Isoprene	39	1.767	1.767	(0.423)	145984	200.000	198.89
188	Isopropyl acetate	43	4.672	4.672	(0.942)	2339721	200.000	201.84(A)
187	n-Amyl acetate	43	8.451	8.451	(1.102)	1694710	200.000	222.86(A)

189 n-Butyl acetate	43	7.210	7.210 (0.940)	1490673	200.000	229.84(AH)
150 Allyl alcohol	57	2.768	2.768 (0.663)	676168	4000.00	1601.42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
194 Acetaldehyde	44	1.212	1.212	(0.291)	184725	800.000	811.65(AM)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	2015999	200.000	208.34
200 Dimethyl Disulfide	94	6.198	6.198	(0.808)	1807738	200.000	225.43(A)
202 Isobutylene	41	1.239	1.239	(0.297)	67118	200.000	211.01(AM)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	1134482	200.000	228.55(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Sample Info: WSTD200;WSTD200;1;10;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 17-MAR-2023 14:58
InstruID : voa6.i
LabSampID : VSTD200

Chloroprene (126-99-8)

Reason Code:

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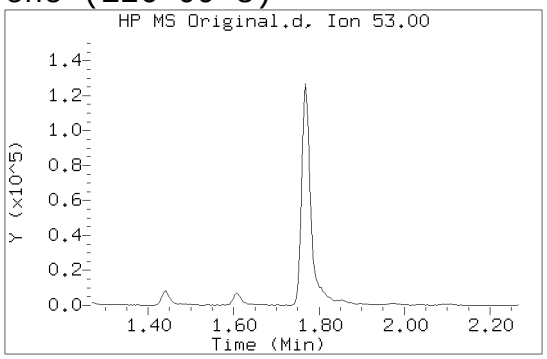

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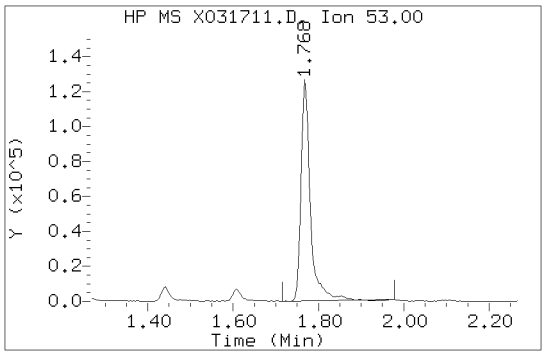

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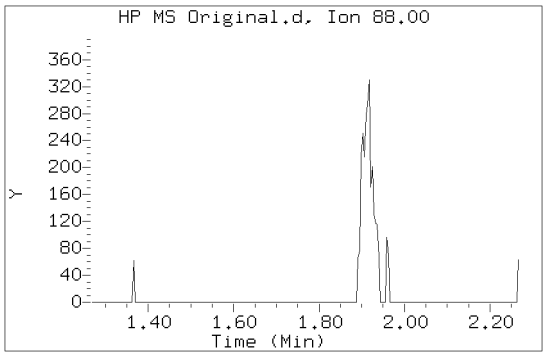

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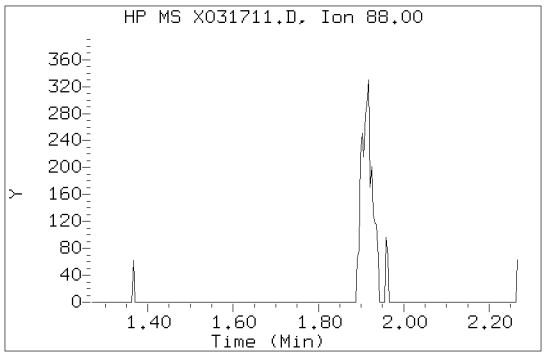

Propylene oxide ()

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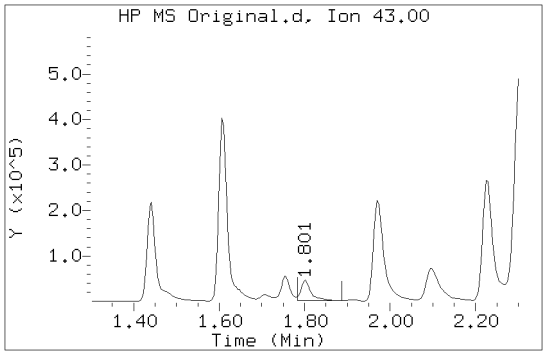

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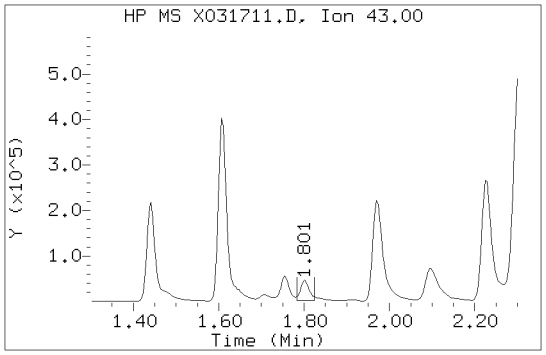

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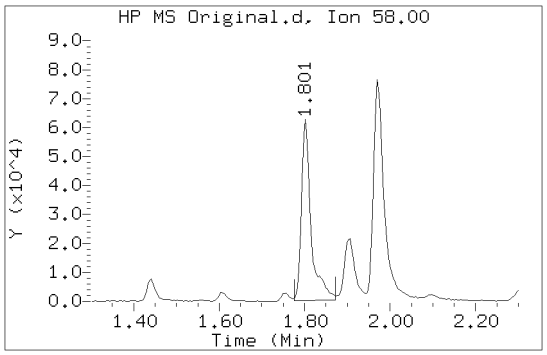

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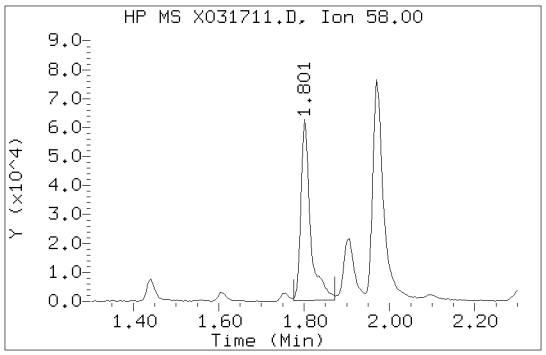

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InstruID : voa6.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

Reason Code:

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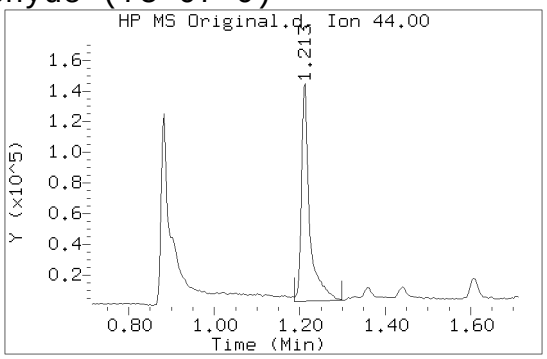

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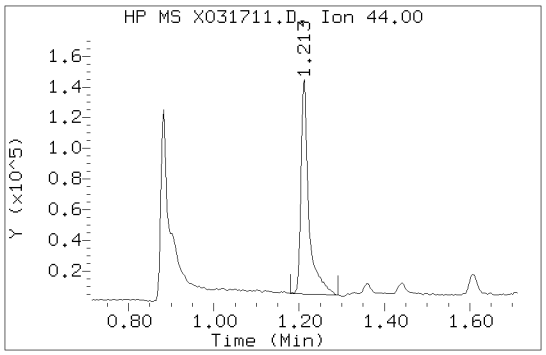

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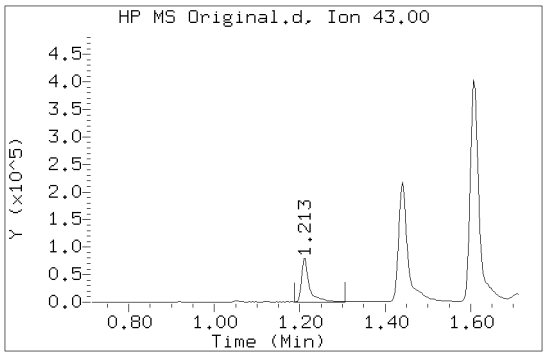

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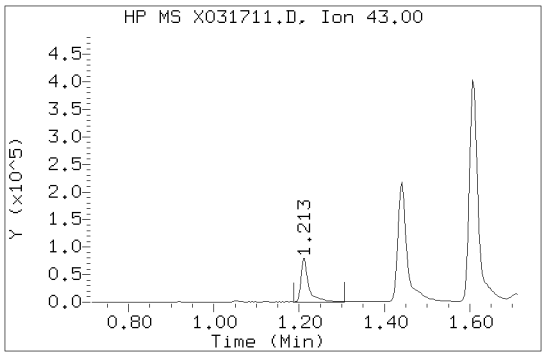

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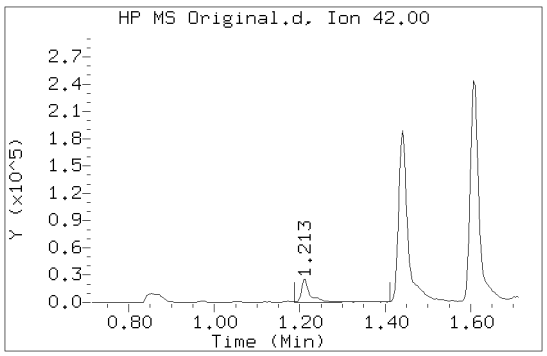

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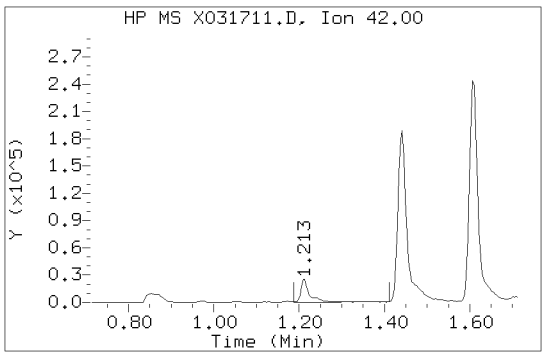

Isobutylene (115-11-7)

Reason Code:

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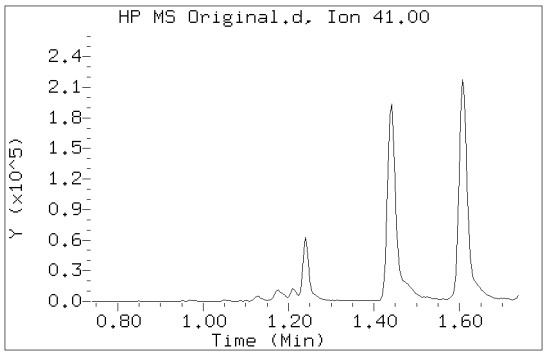

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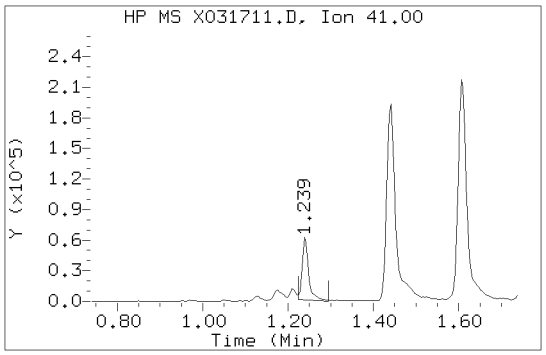

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InstruID : voa6.i
LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

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30-Mar-2023
12:34
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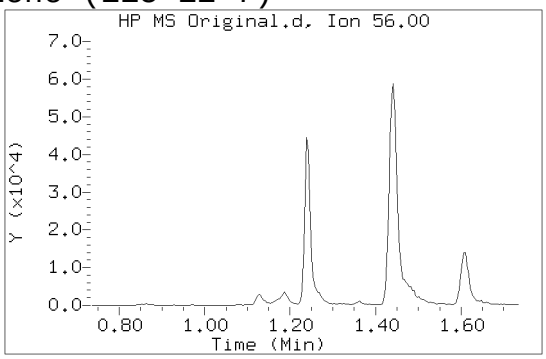

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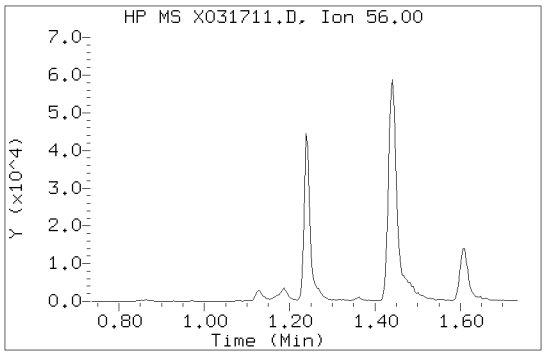

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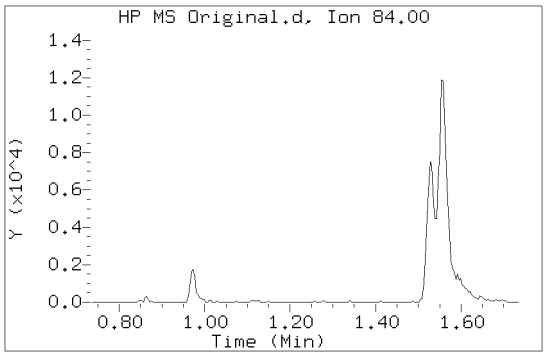

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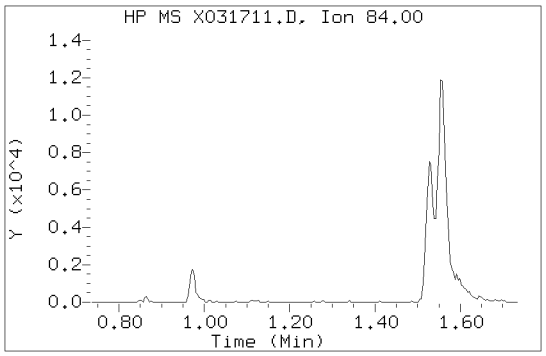

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Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031713.D
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Inj Date : 17-MAR-2023 15:40
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;ICV
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\8260W.m
Meth Date : 30-Mar-2023 12:41 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 14:58 Cal File: X031711.D
Als bottle: 14 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.178	4.174	(1.000)	447337	50.0000	
2	Dichlorodifluoromethane	85	0.973	0.972	(0.233)	125229	41.3548	41.35
3	Chloromethane	50	1.077	1.077	(0.258)	189515	46.0566	46.05
4	Propionitrile	54	3.645	3.649	(0.873)	300803	477.229	477.22
5	Vinyl Chloride	62	1.141	1.141	(0.273)	160708	45.6115	45.61
6	Bromomethane	94	1.340	1.332	(0.321)	105837	52.2437	52.24
7	Chloroethane	64	1.404	1.400	(0.336)	106611	42.6655	42.66
8	Trichlorofluoromethane	101	1.557	1.557	(0.373)	184888	44.2396	44.23
9	Acrolein	56	1.445	1.441	(0.346)	21974	86.8596	86.85
10	Acetone	43	1.970	1.970	(0.472)	134726	115.876	115.87
11	1,1-Dichloroethene	96	1.913	1.910	(0.458)	111784	41.6123	41.61
12	Isobutyl Alcohol	43	4.672	4.672	(1.118)	646931	1059.99	1059.98
13	Acetonitrile	39	2.195	2.194	(0.525)	199524	479.239	479.23
14	Allyl Chloride	41	2.195	2.194	(0.525)	462527	44.9148	44.91
15	Iodomethane	142	2.026	2.026	(0.485)	308789	98.1689	98.16
16	Acrylonitrile	53	2.532	2.528	(0.606)	145802	97.6701	97.67
17	Methylene Chloride	84	2.303	2.299	(0.551)	200013	45.5833	45.58
18	Methyl tert-butyl ether	73	2.532	2.532	(0.606)	635231	44.9099	44.90
19	Carbon Disulfide	76	2.067	2.067	(0.495)	808321	81.8970	81.89
20	trans-1,2-Dichloroethene	96	2.524	2.524	(0.604)	161777	42.6982	42.69

21 Vinyl Acetate	43	2.993	2.993 (0.716)	1190970	104.317	104.31
22 1,1-Dichloroethane	63	2.918	2.918 (0.699)	303151	44.1784	44.17

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031713.D Page 2
Report Date: 30-Mar-2023 12:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
23	Chloroprene	53	1.771	1.767	(0.424)	51295	41.8136	41.81(M)
24	2-Butanone	43	3.574	3.570	(0.856)	172251	107.543	107.54
25	Methacrylonitrile	41	3.821	3.814	(0.915)	208141	50.4845	50.48(a)
26	2,2-Dichloropropane	77	3.510	3.507	(0.840)	245945	45.4765	45.47
27	cis-1,2-Dichloroethene	96	3.522	3.522	(0.843)	198010	43.1856	43.18
28	Chloroform	83	3.904	3.900	(0.935)	354779	46.5832	46.58
29	Bromochloromethane	128	3.791	3.788	(0.908)	116267	44.8093	44.80
$ 30	Dibromofluoromethane	113	4.095	4.095	(0.980)	222095	53.3323	53.33
31	1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	260399	45.7219	45.72
32	1,1-Dichloropropene	75	4.279	4.275	(0.862)	216942	44.6577	44.65
33	1,2-Dichloroethane	62	4.552	4.552	(0.917)	301577	53.2827	53.28
34	Carbon Tetrachloride	117	4.264	4.260	(0.859)	200181	43.0463	43.04
$ 35	1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	260640	53.9569	53.95
* 36	1,4-Difluorobenzene	114	4.965	4.961	(1.000)	680845	50.0000	
37	Benzene	78	4.507	4.507	(0.908)	782401	46.7344	46.73
38	Trichloroethene	130	5.205	5.201	(1.048)	192215	42.6262	42.62
39	Bromodichloromethane	83	5.722	5.722	(1.153)	302269	50.8638	50.86
40	Methyl Methacrylate	41	5.602	5.602	(1.341)	204589	51.2910	51.29
41	2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	192610	106.604	106.60
42	1,2-Dichloropropane	63	5.433	5.433	(1.094)	218132	48.3489	48.34
43	2-Nitropropane	43	5.966	5.966	(1.428)	74170	52.8113	52.81
44	Dibromomethane	93	5.550	5.550	(1.118)	146234	50.8144	50.81
45	4-Methyl-2-Pentanone	43	6.322	6.325	(0.824)	442523	103.091	103.09
46	cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	383752	51.1256	51.12
* 47	Chlorobenzene-d5	117	7.668	7.667	(1.000)	678434	50.0000	
$ 48	Toluene-d8	98	6.386	6.385	(0.833)	830535	49.3824	49.38
49	Ethyl Methacrylate	69	6.708	6.715	(1.351)	227831	45.4566	45.45
50	Toluene	91	6.446	6.445	(0.841)	815198	45.7983	45.79
51	trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	332900	53.4229	53.42
52	2-Hexanone	43	7.083	7.086	(0.924)	309958	105.209	105.20
53	1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	183155	47.3284	47.32
54	1,3-Dichloropropane	76	6.982	6.981	(0.911)	377705	49.1094	49.10
55	Dibromochloromethane	129	7.173	7.173	(0.935)	263793	48.2534	48.25
56	Tetrachloroethene	164	6.925	6.925	(0.903)	151884	42.5660	42.56
57	1,2-Dibromoethane	107	7.259	7.259	(0.947)	241939	50.5793	50.57
58	1-Chlorohexane	55	7.694	7.694	(1.550)	142824	44.2112	44.21
59	Chlorobenzene	112	7.690	7.694	(1.003)	586122	46.0779	46.07
60	1,1,1,2-Tetrachloroethane	131	7.773	7.772	(1.014)	230019	46.9252	46.92
61	Ethylbenzene	106	7.799	7.799	(1.017)	273832	43.7423	43.74
62	m,p-Xylenes	106	7.900	7.904	(1.030)	695067	88.2252	88.22
63	o-Xylene	106	8.241	8.241	(1.075)	352582	44.5380	44.53
64	Styrene	104	8.256	8.256	(1.077)	633869	48.4578	48.45
66	Bromoform	173	8.410	8.410	(1.097)	190524	50.4021	50.40
67	Isopropylbenzene	105	8.560	8.560	(1.116)	776949	42.8514	42.85
68	1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	316083	49.5811	49.58
$ 69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	337169	52.5034	52.50
* 70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	365870	50.0000	
71	1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	247298	51.6156	51.61(M)
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	78770	52.1347	52.13
73	n-Propylbenzene	91	8.912	8.912	(0.922)	931403	45.8038	45.80
74	Bromobenzene	156	8.803	8.803	(0.911)	285872	48.5995	48.59
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	715245	45.3485	45.34

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	643431	47.0625	47.06
77	4-Chlorotoluene	91	9.070	9.069 (0.939)	759380	49.2796	49.27

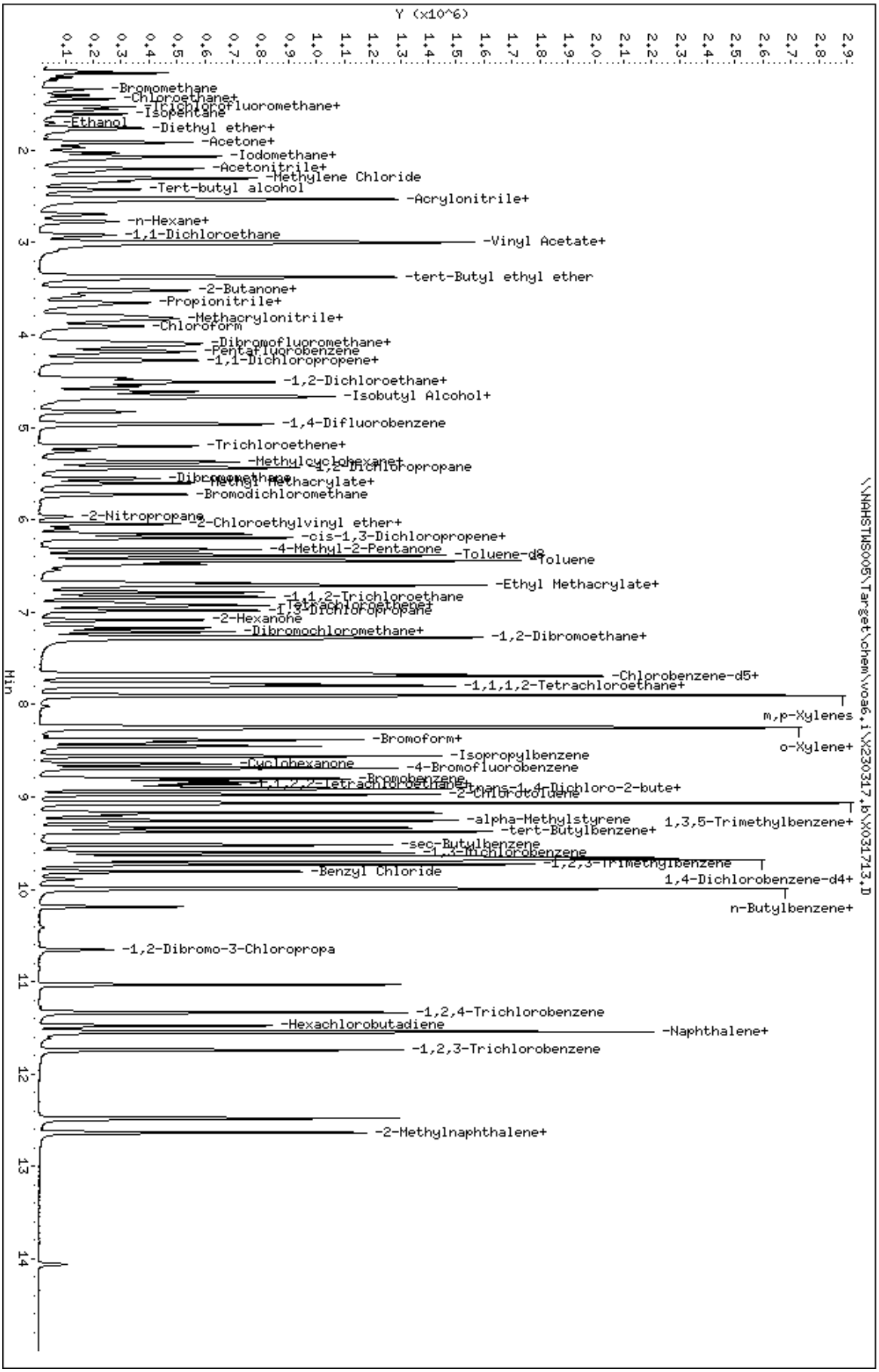
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	539588	42.9532	42.95
79	1,2,4-Trimethylbenzene	105	9.377	9.381	(0.971)	738107	45.6311	45.63
81	sec-Butylbenzene	105	9.519	9.523	(0.985)	716233	42.0655	42.06
82	p-Isopropyltoluene	119	9.647	9.651	(0.998)	680520	44.7915	44.79
83	1,3-Dichlorobenzene	146	9.602	9.606	(0.994)	474406	46.6312	46.63
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	504387	46.1290	46.12
86	Benzyl Chloride	91	9.808	9.808	(1.279)	555092	51.5864	51.58
87	n-Butylbenzene	91	9.992	9.992	(1.034)	605034	49.4104	49.41
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	498274	48.9673	48.96
89	1,2-Dibromo-3-Chloropropane	155	10.655	10.651	(1.103)	57812	49.2619	49.26
90	1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	381306	51.2551	51.25
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	141634	48.8975	48.89
92	Naphthalene	128	11.540	11.540	(1.194)	950722	53.2461	53.24
93	1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	364201	51.1604	51.16
146	Methyl acetate	43	2.232	2.224	(0.534)	125629	48.8600	48.86
138	Freon TF	101	1.913	1.910	(0.458)	100166	40.8571	40.85
141	Cyclohexane	56	4.121	4.121	(0.987)	192967	40.9633	40.96
142	Tetrahydrofuran	42	3.840	3.840	(0.919)	77686	106.349	106.34
147	Methylcyclohexane	55	5.377	5.377	(1.083)	467668	49.7485	49.74
135	1,4-Dioxane	88	5.595	5.602	(1.339)	56366	949.601	949.60
132	n-Butanol	56	5.253	5.253	(1.257)	103021	893.946	893.94
131	Methyl Acrylate	55	3.683	3.679	(0.882)	246891	53.2924	53.29
133	Ethyl Acrylate	55	5.377	5.377	(1.287)	467668	47.9091	47.90
136	n-Hexane	57	2.768	2.768	(0.663)	140253	47.0012	47.00
139	Diethyl ether	59	1.756	1.756	(0.420)	143799	47.9753	47.97
148	Tert-butyl alcohol	59	2.423	2.431	(0.580)	433912	926.243	926.24
149	Isopropyl alcohol	45	2.090	2.097	(0.500)	241695	965.524	965.52
156	Diisopropyl ether	45	2.997	2.997	(0.717)	650281	46.8236	46.82
160	2-Methylnaphthalene	142	12.635	12.634	(1.308)	488718	55.3663	55.36
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	823368	46.9270	46.92
167	Ethanol	45	1.700	1.703	(0.407)	39210	977.329	977.32
172	tert-Butyl formate	59	4.612	4.620	(1.104)	359899	98.7399	98.73
173	3,3-Dimethyl-1-butanol	57	7.285	7.289	(0.950)	478985	916.228	916.22
174	tert-Amyl methyl ether	73	4.665	4.665	(1.117)	736716	46.0245	46.02
175	tert-Butyl ethyl ether	59	3.372	3.375	(0.807)	675212	46.4157	46.41
176	tert-Amyl alcohol	59	4.612	4.620	(1.104)	359899	940.131	940.13
151	4-Methyl-2-pentanol	45	6.708	6.715	(1.351)	969092	975.165	975.16
180	1-Methylnaphthalene	142	12.635	12.634	(1.308)	488718		(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	129783	42.7804	42.78
152	Amyl alcohol	42	6.899	6.899	(0.900)	119741	979.301	979.30
158	Dichlorofluoromethane	67	1.531	1.527	(0.367)	258449	46.6365	46.63
159	Propylene oxide	43	1.801	1.801	(0.431)	28721	102.916	102.91
161	3-Methyl-1-butanol	55	6.899	6.899	(0.900)	119120	1006.05	1006.04
162	Butyl acrylate	55	8.249	8.249	(1.076)	512190	51.1478	51.14
182	Epichlorohydrin	57	6.093	6.093	(1.227)	78556	202.250	202.25
M 94	1,2-Dichloroethylene (total)	96				359787	85.8838	85.88
M 95	Xylenes (total)	106				1047649	132.763	132.76
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	373878	46.8716	46.87
130	Ethyl Acetate	43	3.649	3.649	(0.873)	229301	49.6297	49.62
134	Cyclohexanone	55	8.642	8.642	(0.894)	224152	1031.57	1031.57
185	Isoprene	39	1.767	1.767	(0.423)	46906	54.6615	54.66(M)
188	Isopropyl acetate	43	4.672	4.672	(0.941)	646931	52.4764	52.47

187 n-Amyl acetate	43	8.451	8.451 (1.102)	429141	50.9400	50.94
189 n-Butyl acetate	43	7.210	7.210 (0.940)	377004	52.4708	52.47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
150 Allyl alcohol	57	2.768	2.768	(0.663)	140253	940.463	940.46
194 Acetaldehyde	44	1.212	1.212	(0.290)	56950	213.429	213.42(M)
195 Methyl Amyl Ketone	43	8.380	8.380	(1.093)	549227	51.2328	51.23
200 Dimethyl Disulfide	94	6.194	6.198	(0.808)	465053	52.3475	52.34
202 Isobutylene	41	1.239	1.239	(0.297)	22110	59.4566	59.45(M)
205 2-Ethylhexyl Acrylate	55	11.547	11.547	(1.195)	301168	55.7587	55.75

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6,i\X230317,b\X031713,D
Date : 17-MAR-2023 15:40
Client ID: ICV
Sample Info: CCV;CCV;2;;ICV
Purge Volume: 5.0
Column phase: DB624

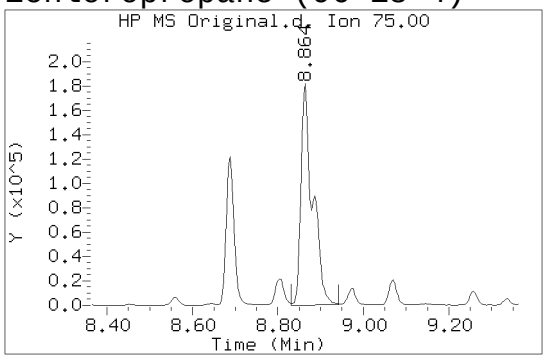
Instrument: voa6,i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031713.D
Inj Date : 17-MAR-2023 15:40
InstruID : voa6.i
LabSampID : ICV

1,2,3-Trichloropropane (96-18-4)

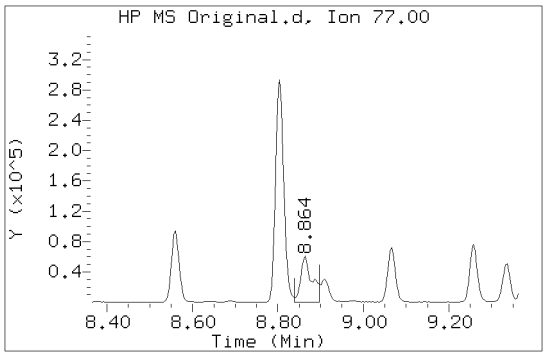
BEFORE

MASS
75
AREA
352133
HEIGHT
181625
30-Mar-2023
12:34
linh
pham



BEFORE

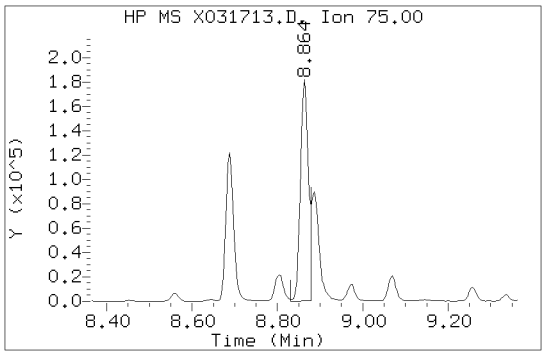
MASS
77
AREA
115864
HEIGHT
60650
30-Mar-2023
12:34
linh
pham



Reason Code:

AFTER

MASS
75
AREA
247298
HEIGHT
181625
30-Mar-2023
12:41
linh
pham



AFTER

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12:41
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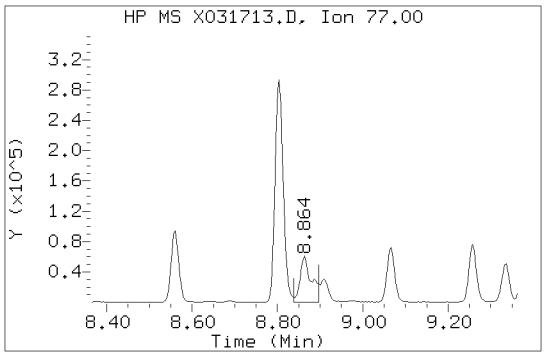

Chloroprene (126-99-8)

BEFORE

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AREA
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HEIGHT
0
30-Mar-2023
12:34
linh
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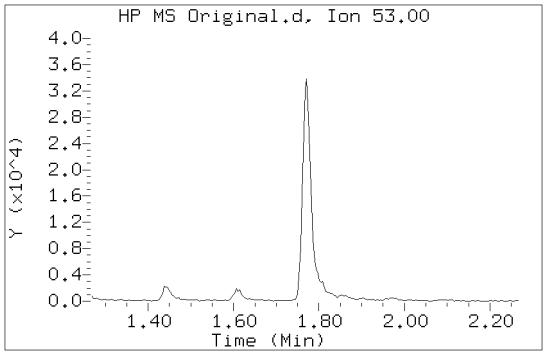

BEFORE

MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:34
linh
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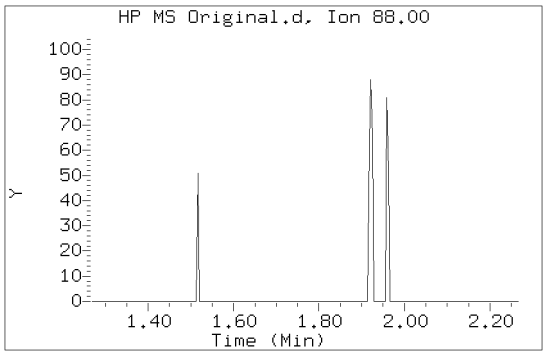

Reason Code:

AFTER

MASS
53
AREA
51295
HEIGHT
33689
30-Mar-2023
12:41
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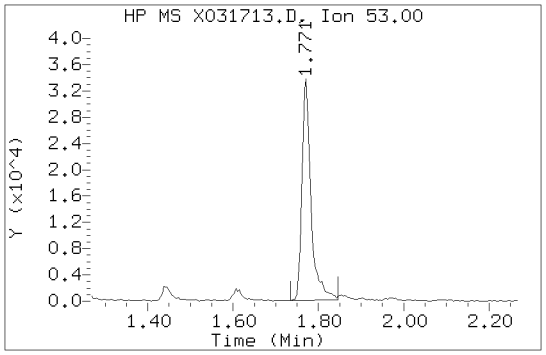

AFTER

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AREA
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HEIGHT
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12:41
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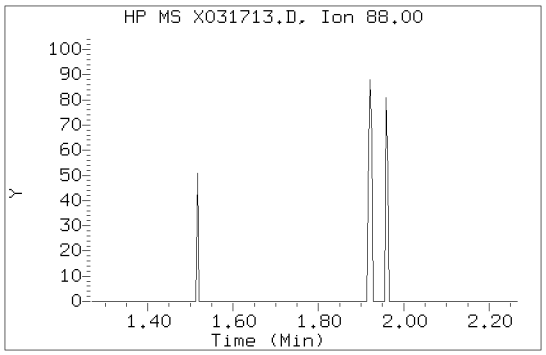

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Inj Date : 17-MAR-2023 15:40
InstruID : voa6.i
LabSampID : ICV

Isoprene (78-79-5)

Reason Code:

BEFORE

MASS
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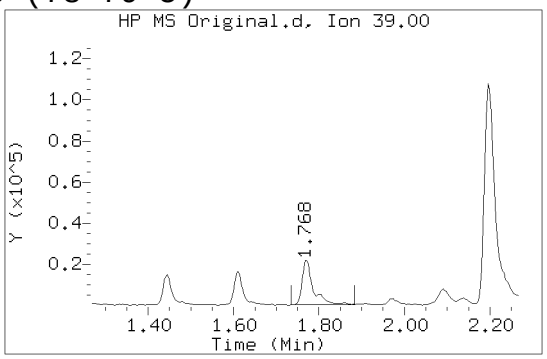
AREA
41500
HEIGHT
21731
30-Mar-2023
12:34
linh
pham



AFTER

MASS
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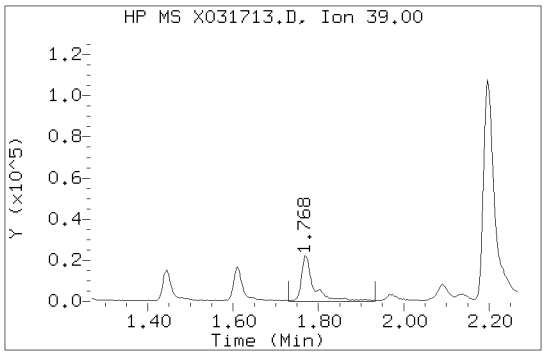
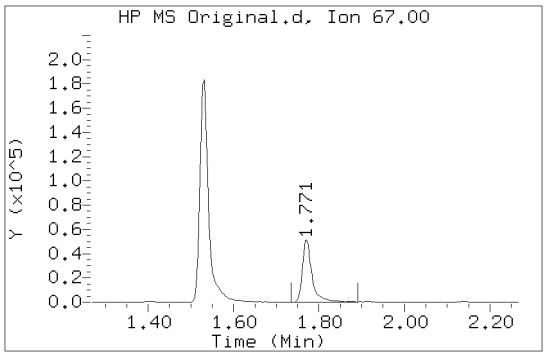
AREA
46906
HEIGHT
22080
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
67
AREA
82608
HEIGHT
51480
30-Mar-2023
12:34
linh
pham



AFTER

MASS
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82608
HEIGHT
51480
30-Mar-2023
12:41
linh
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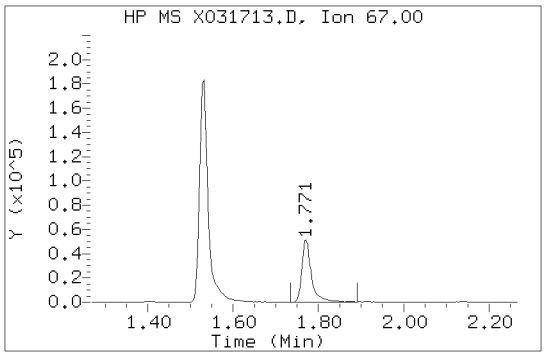

BEFORE

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AREA
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12:34
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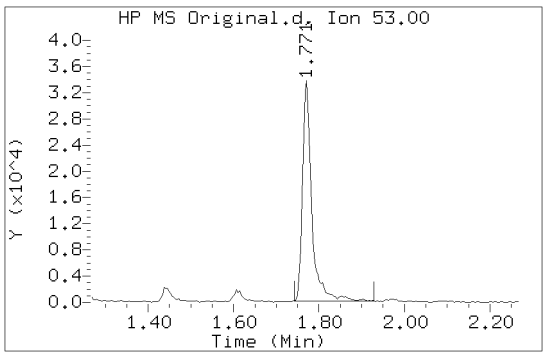

AFTER

MASS
53
AREA
52548
HEIGHT
33655
30-Mar-2023
12:41
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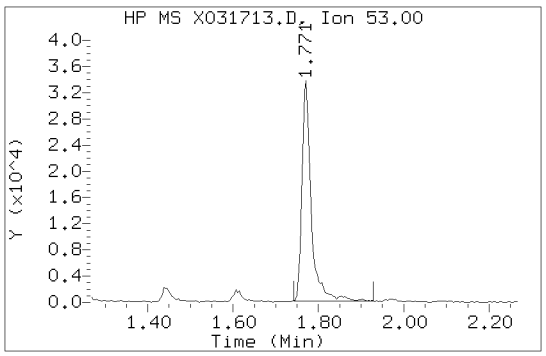
pham



Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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AREA
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HEIGHT
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30-Mar-2023
12:34
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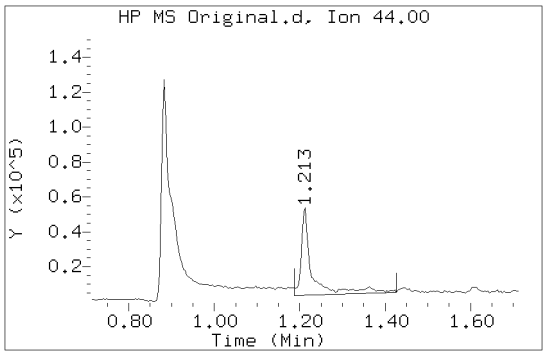
pham



AFTER

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AREA
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HEIGHT
46607
30-Mar-2023
12:41
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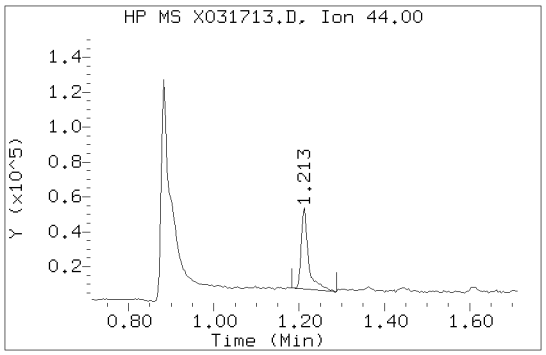
pham



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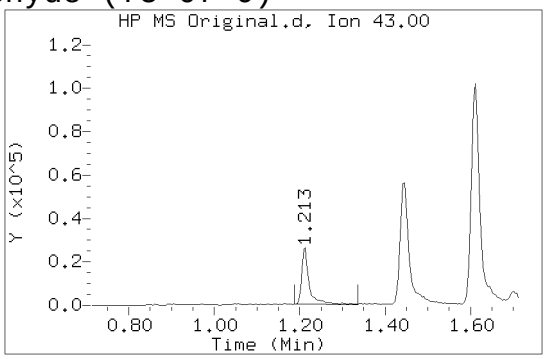
Inj Date : 17-MAR-2023 15:40
InstruID : voa6.i
LabSampID : ICV

Acetaldehyde (75-07-0)

Reason Code:

BEFORE
MASS
43
AREA
32748
HEIGHT
26025
30-Mar-2023
12:34
linh
pham



AFTER
MASS
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AREA
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HEIGHT
26025
30-Mar-2023
12:41
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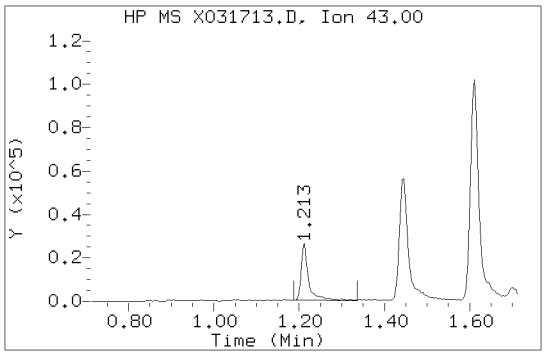
pham



BEFORE
MASS
42
AREA
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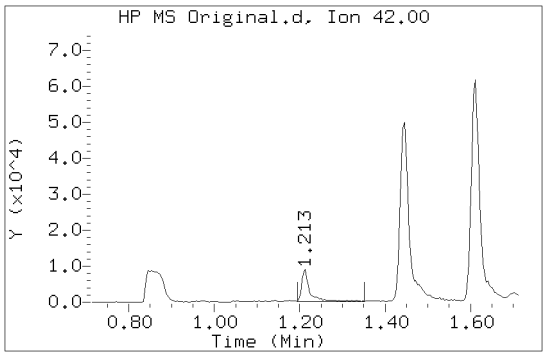
HEIGHT
8969
30-Mar-2023
12:34
linh
pham



AFTER
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AREA
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HEIGHT
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30-Mar-2023
12:41
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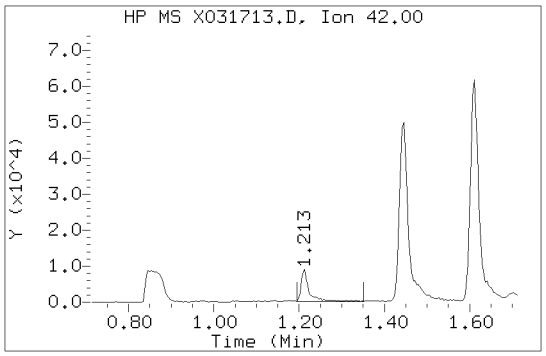
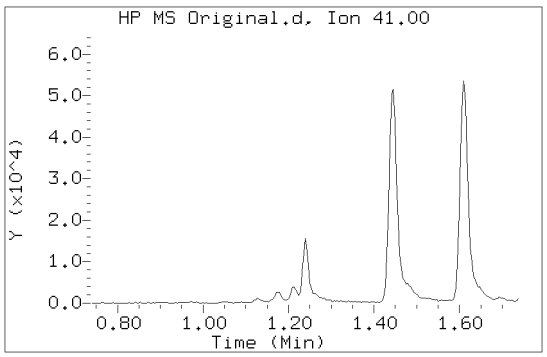


Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:34
linh
pham



AFTER
MASS
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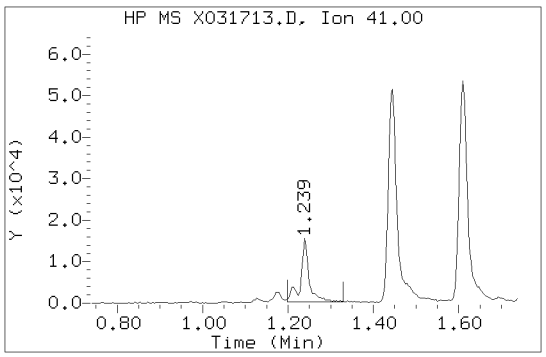
AREA
22110
HEIGHT
15254
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
56
AREA
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HEIGHT
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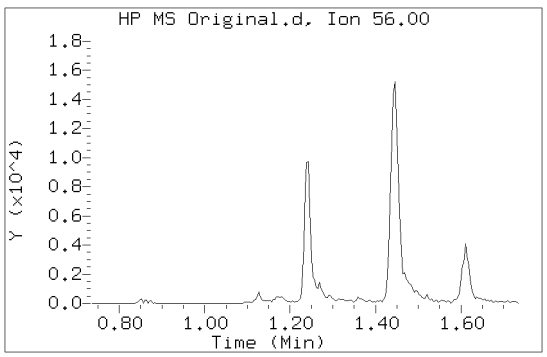
30-Mar-2023
12:34
linh
pham



AFTER
MASS
56
AREA
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HEIGHT
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30-Mar-2023
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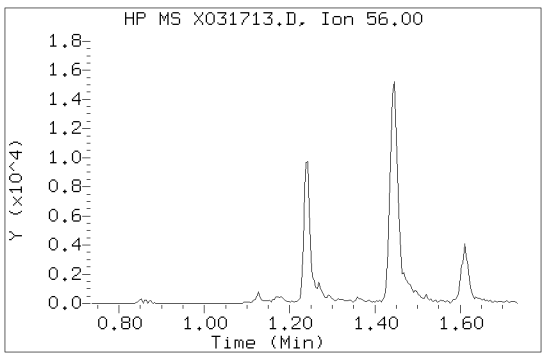

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Inj Date : 17-MAR-2023 15:40
InstruID : voa6.i
LabSampID : ICV

Isobutylene (115-11-7)

Reason Code:

BEFORE

MASS
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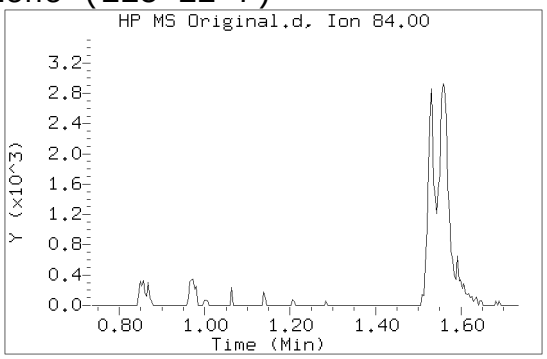
AREA
0
HEIGHT
0
30-Mar-2023
12:34
linh
pham



AFTER

MASS
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HEIGHT
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30-Mar-2023
12:41
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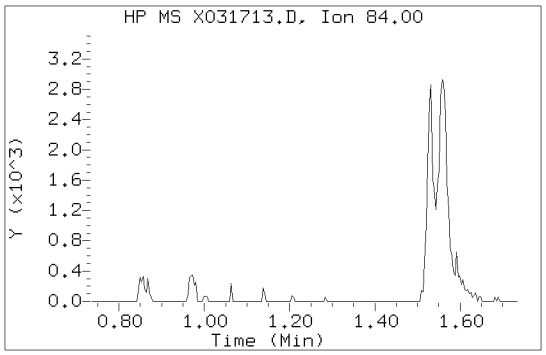

right solutions.
right partner.

Raw Data VOA6 430844

Volatiles by EPA 8260

Workorder

HS23031294

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032301.D Page 1
Report Date: 23-Mar-2023 21:09

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032301.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 23-MAR-2023 10:26
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\bfb.m
Meth Date : 14-Mar-2023 15:45 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
8.687	8.889	(0.000)	95	28866			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	4332			15.00- 40.00	15.01
8.687	8.889	(0.000)	75	12614			30.00- 60.00	43.70
8.687	8.889	(0.000)	96	1930			5.00- 9.00	6.69
8.687	8.889	(0.000)	173	120			0.00- 2.00	0.44
8.687	8.889	(0.000)	174	27087			50.00- 0.00	93.84
8.687	8.889	(0.000)	175	2031			5.00- 9.00	7.50
8.687	8.889	(0.000)	176	26647			95.00- 101.00	98.38
8.687	8.889	(0.000)	177	1739			5.00- 9.00	6.53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.01
75	30.00 - 60.00% of mass 95	43.70
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.42 (0.44)
174	Greater than 50.00% of mass 95	93.84
175	5.00 - 9.00% of mass 174	7.04 (7.50)
176	95.00 - 101.00% of mass 174	92.31 (98.38)
177	5.00 - 9.00% of mass 176	6.02 (6.53)

Data File: X032301.D
Spectrum: Average Spectrum: 8.643 to 8.729 min.
Location of Maximum: 95.00
Number of points: 131

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36.00	227	69.00	6582	103.00	51	142.00	37
37.00	1058	70.00	3378	104.00	153	143.00	197
38.00	1208	71.00	332	105.00	181	144.00	11
39.00	3079	72.00	140	106.00	118	145.00	7
40.00	1413	73.00	1059	107.00	63	146.00	42
41.00	3604	74.00	3941	108.00	9	147.00	15
42.00	7339	75.00	12614	109.00	51	148.00	57
43.00	1501	76.00	1094	110.00	14	149.00	10
44.00	679	77.00	337	111.00	5	150.00	23
45.00	399	78.00	221	112.00	7	152.00	7
46.00	19	79.00	759	113.00	20	153.00	18
47.00	296	80.00	901	114.00	8	154.00	10
48.00	134	81.00	611	115.00	48	155.00	79
49.00	936	82.00	135	116.00	90	157.00	51
50.00	4332	83.00	1435	117.00	161	158.00	5
51.00	1630	84.00	61	118.00	80	159.00	26
52.00	210	85.00	75	119.00	119	161.00	22
53.00	559	86.00	35	120.00	17	168.00	5
54.00	941	87.00	1226	122.00	2	170.00	5
55.00	12234	88.00	1230	124.00	6	171.00	3
56.00	1828	89.00	60	125.00	2	172.00	8
57.00	927	90.00	65	127.00	24	173.00	120
58.00	186	91.00	159	128.00	138	174.00	27080
59.00	53	92.00	709	129.00	59	175.00	2031
60.00	197	93.00	1005	130.00	90	176.00	26640
61.00	1068	94.00	2959	131.00	38	177.00	1739
62.00	1143	95.00	28864	134.00	9	178.00	38
63.00	948	96.00	1930	135.00	30	186.00	144
64.00	121	97.00	503	136.00	6	234.00	9
65.00	148	98.00	6659	137.00	46	262.00	2
66.00	94	99.00	430	139.00	15	278.00	7
67.00	230	100.00	24	140.00	19		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032301.D

Date : 23-MAR-2023 10:26

Client ID: BFB

Instrument: voa6.i

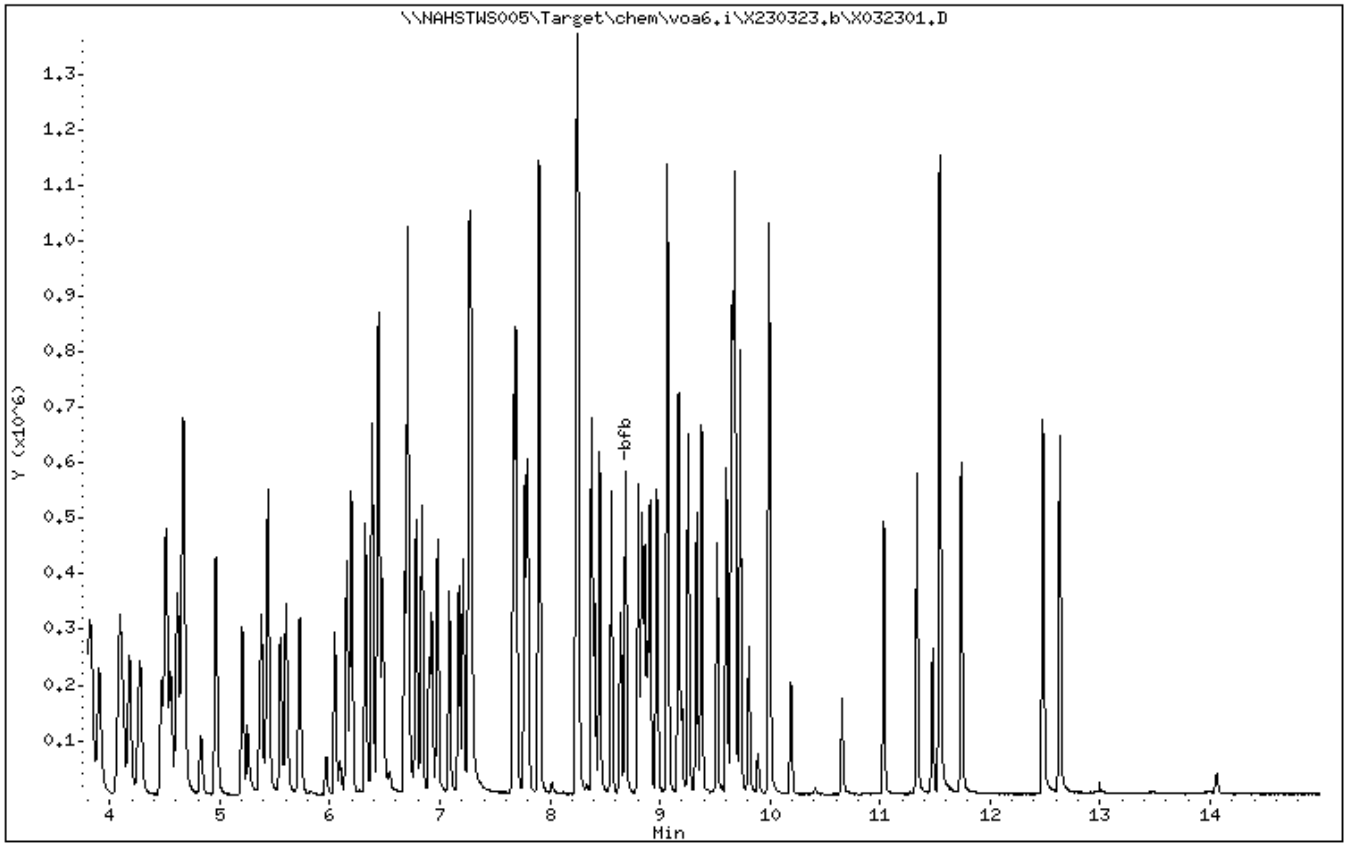
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25



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Date : 23-MAR-2023 10:26

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

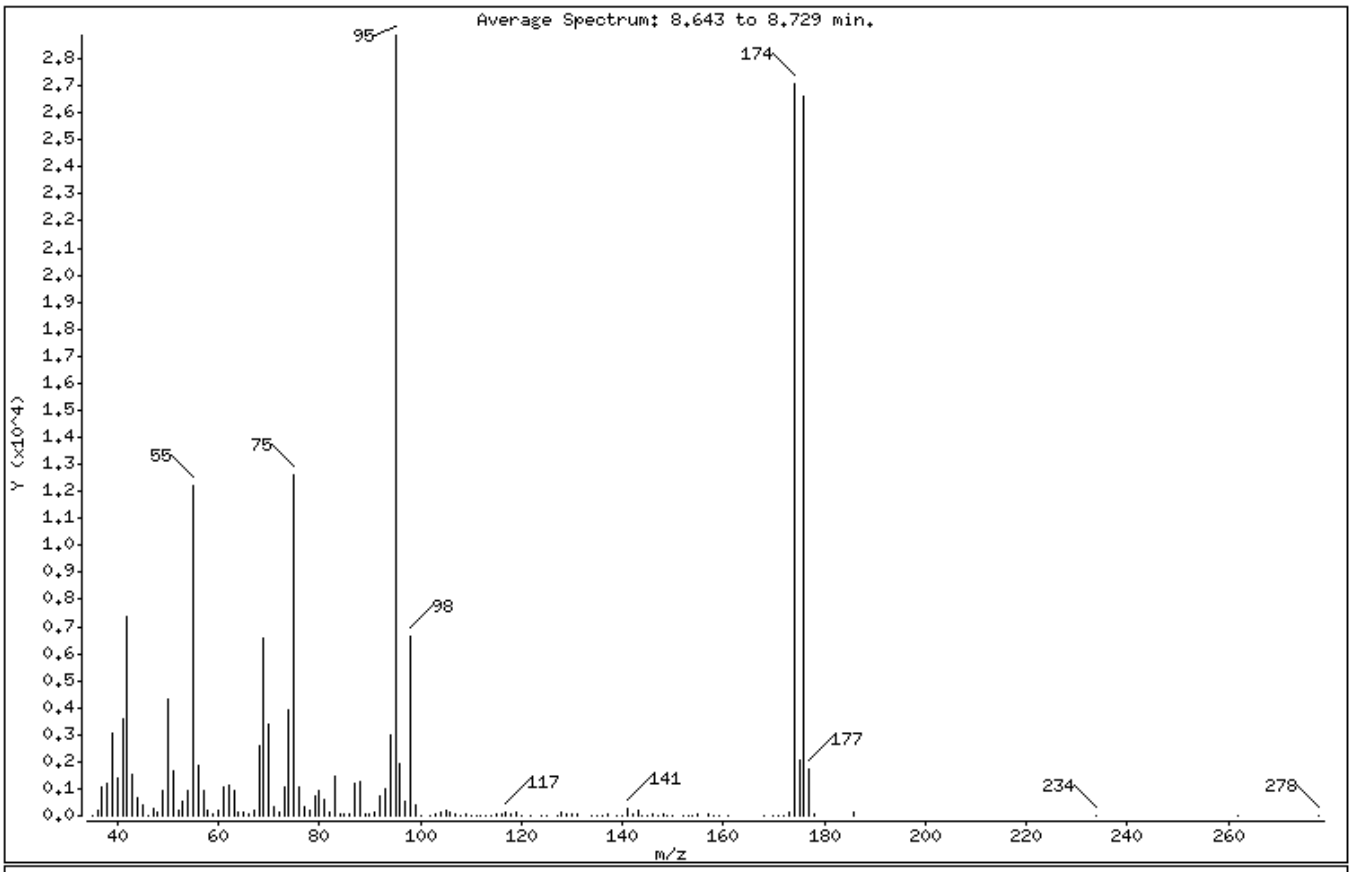
Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.01
75	30.00 - 60.00% of mass 95	43.70
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.42 (0.44)
174	Greater than 50.00% of mass 95	93.84
175	5.00 - 9.00% of mass 174	7.04 (7.50)
176	95.00 - 101.00% of mass 174	92.31 (98.38)
177	5.00 - 9.00% of mass 176	6.02 (6.53)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032301.D

Date : 23-MAR-2023 10:26

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: X032301.D
Spectrum: Average Spectrum: 8.643 to 8.729 min.
Location of Maximum: 95.00
Number of points: 131

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	2	68.00	2565	102.00	3	141.00	255
36.00	227	69.00	6582	103.00	51	142.00	37
37.00	1058	70.00	3378	104.00	153	143.00	197
38.00	1208	71.00	332	105.00	181	144.00	11
39.00	3079	72.00	140	106.00	118	145.00	7
40.00	1413	73.00	1059	107.00	63	146.00	42
41.00	3604	74.00	3941	108.00	9	147.00	15
42.00	7339	75.00	12614	109.00	51	148.00	57
43.00	1501	76.00	1094	110.00	14	149.00	10
44.00	679	77.00	337	111.00	5	150.00	23
45.00	399	78.00	221	112.00	7	152.00	7
46.00	19	79.00	759	113.00	20	153.00	18
47.00	296	80.00	901	114.00	8	154.00	10
48.00	134	81.00	611	115.00	48	155.00	79
49.00	936	82.00	135	116.00	90	157.00	51
50.00	4332	83.00	1435	117.00	161	158.00	5
51.00	1630	84.00	61	118.00	80	159.00	26
52.00	210	85.00	75	119.00	119	161.00	22
53.00	559	86.00	35	120.00	17	168.00	5
54.00	941	87.00	1226	122.00	2	170.00	5
55.00	12234	88.00	1230	124.00	6	171.00	3
56.00	1828	89.00	60	125.00	2	172.00	8
57.00	927	90.00	65	127.00	24	173.00	120
58.00	186	91.00	159	128.00	138	174.00	27080
59.00	53	92.00	709	129.00	59	175.00	2031
60.00	197	93.00	1005	130.00	90	176.00	26640
61.00	1068	94.00	2959	131.00	38	177.00	1739
62.00	1143	95.00	28864	134.00	9	178.00	38
63.00	948	96.00	1930	135.00	30	186.00	144
64.00	121	97.00	503	136.00	6	234.00	9
65.00	148	98.00	6659	137.00	46	262.00	2
66.00	94	99.00	430	139.00	15	278.00	7
67.00	230	100.00	24	140.00	19		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032303.D Page 1
Report Date: 04-Apr-2023 11:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032303.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 23-MAR-2023 11:08
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\8260W.m
Meth Date : 04-Apr-2023 11:52 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	302512	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	37861	1000.00	943.21
140 1,3-Butadiene	54	1.164	1.164	(0.279)	81605	50.0000	39.77
25 Methacrylonitrile	41	3.818	3.818	(0.914)	126542	50.0000	45.38
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	379087	1000.00	918.49
13 Acetonitrile	39	2.198	2.198	(0.526)	123671	500.000	439.25
14 Allyl Chloride	41	2.195	2.195	(0.525)	301253	50.0000	43.25
4 Propionitrile	54	3.645	3.645	(0.873)	203776	500.000	478.06
142 Tetrahydrofuran	42	3.840	3.840	(0.919)	48870	100.000	98.92
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	262281	50.0000	48.60
156 Diisopropyl ether	45	2.997	2.997	(0.717)	386410	50.0000	41.14
182 Epichlorohydrin	57	6.093	6.093	(1.227)	54488	200.000	213.96
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	550348	50.0000	46.36
2 Dichlorodifluoromethane	85	0.973	0.973	(0.233)	91173	50.0000	44.37
3 Chloromethane	50	1.078	1.078	(0.258)	128400	50.0000	46.14
5 Vinyl Chloride	62	1.141	1.141	(0.273)	101050	50.0000	42.40
6 Bromomethane	94	1.340	1.340	(0.321)	69261	50.0000	50.55
7 Chloroethane	64	1.404	1.404	(0.336)	67599	50.0000	40.00(M)
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	126415	50.0000	44.72
9 Acrolein	56	1.445	1.445	(0.346)	12506	100.000	73.59

10 Acetone	43	1.970	1.970 (0.472)	73387	100.000	92.32
11 1,1-Dichloroethene	96	1.913	1.913 (0.458)	78137	50.0000	43.01

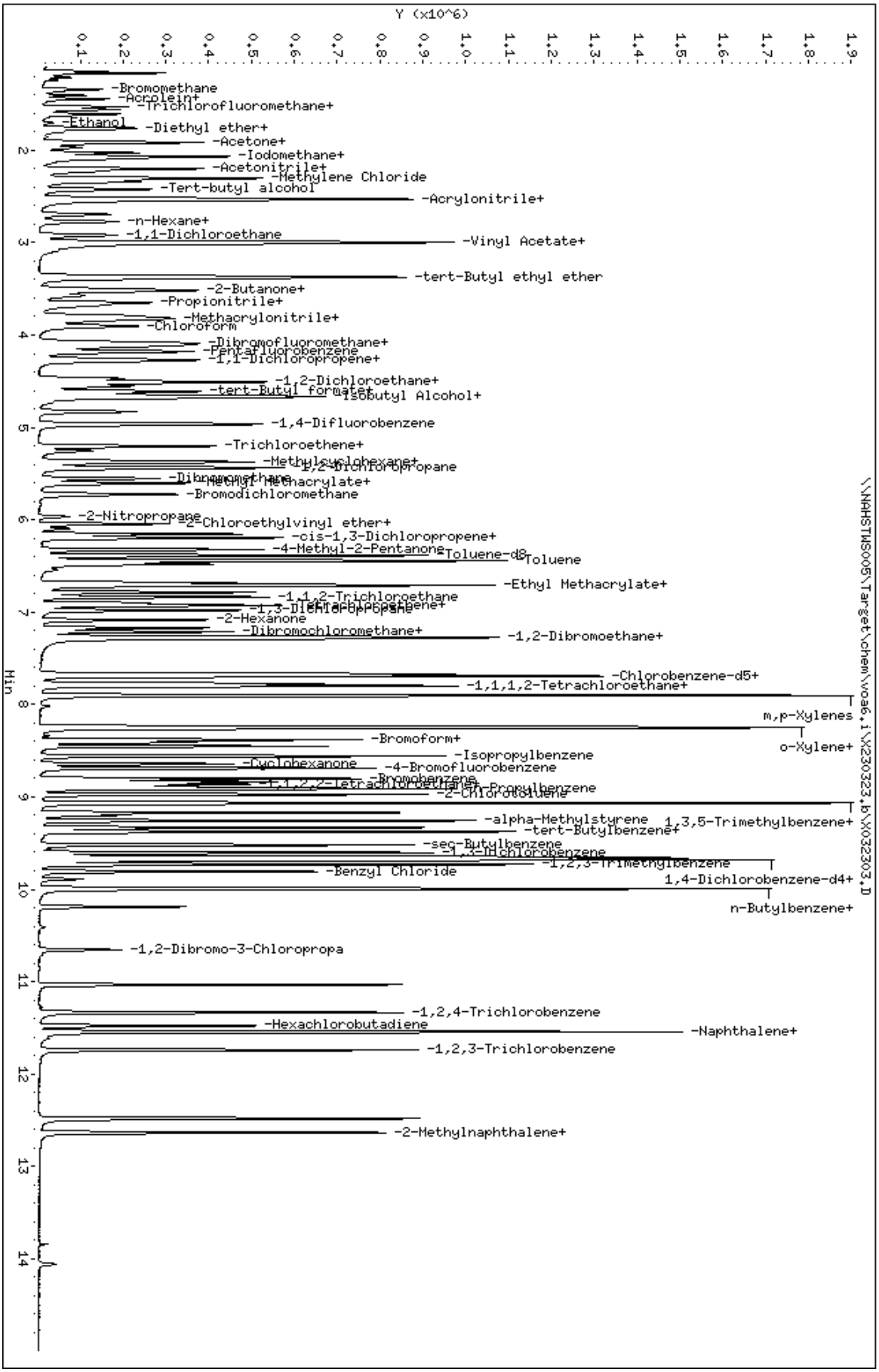
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	15 Iodomethane	142	2.026	2.026	(0.485)	246359	100.000	113.24
	16 Acrylonitrile	53	2.532	2.532	(0.606)	94707	100.000	93.81
	17 Methylene Chloride	84	2.303	2.303	(0.551)	136218	50.0000	45.91
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	420215	50.0000	43.93
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	550078	100.000	82.41
	20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	113784	50.0000	44.40
	21 Vinyl Acetate	43	2.997	2.997	(0.717)	718905	100.000	93.11
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	200407	50.0000	43.18
	24 2-Butanone	43	3.574	3.574	(0.856)	104323	100.000	96.31
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	167040	50.0000	45.67
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	138556	50.0000	44.68
	28 Chloroform	83	3.900	3.900	(0.934)	220810	50.0000	42.87
	29 Bromochloromethane	128	3.792	3.792	(0.908)	77671	50.0000	44.26
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	137579	50.0000	48.78
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	168981	50.0000	43.87
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	144469	50.0000	45.35
	33 1,2-Dichloroethane	62	4.553	4.553	(0.917)	176379	50.0000	47.53
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	137455	50.0000	45.08
$	35 1,2-Dichloroethane-d4	65	4.466	4.466	(1.069)	149695	50.0000	45.98
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	446383	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	503515	50.0000	45.87
	38 Trichloroethene	130	5.205	5.205	(1.048)	141686	50.0000	47.92
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	184668	50.0000	47.39
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	119249	100.000	100.66
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	136300	50.0000	46.07
	44 Dibromomethane	93	5.553	5.553	(1.119)	93393	50.0000	49.49
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	278371	100.000	100.55
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	244789	50.0000	49.74
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	437528	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	529512	50.0000	48.81
	50 Toluene	91	6.446	6.446	(0.841)	546318	50.0000	47.59
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	210284	50.0000	51.47
	52 2-Hexanone	43	7.083	7.083	(0.924)	195606	100.000	102.95
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	119343	50.0000	47.81
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	241475	50.0000	48.68
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	175487	50.0000	49.77
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	108421	50.0000	47.11
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	161466	50.0000	52.34
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	91442	50.0000	43.22
	59 Chlorobenzene	112	7.694	7.694	(1.003)	401493	50.0000	48.94
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	157841	50.0000	49.93
	61 Ethylbenzene	106	7.799	7.799	(1.017)	187756	50.0000	46.50
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	483260	100.000	95.11
	63 o-Xylene	106	8.241	8.241	(1.075)	243871	50.0000	47.76
	64 Styrene	104	8.256	8.256	(1.077)	431628	50.0000	51.16
	66 Bromoform	173	8.410	8.410	(1.097)	136118	50.0000	55.83
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	531829	50.0000	45.48
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	221231	50.0000	51.29
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	212908	50.0000	51.40
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	247503	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	187889	50.0000	57.97
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	627488	50.0000	45.61

74	Bromobenzene	156	8.803	8.803 (0.911)	198196	50.0000	49.80
75	1,3,5-Trimethylbenzene	105	9.066	9.066 (0.938)	487620	50.0000	45.70

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	427420	50.0000	46.21	
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	497577	50.0000	47.73	
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	381915	50.0000	44.94	
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	514681	50.0000	47.03	
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	502330	50.0000	43.61	
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	476419	50.0000	46.35	
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	334781	50.0000	48.64	
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	348276	50.0000	47.08	
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	385381	50.0000	46.52	
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	344111	50.0000	49.98	
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	44332	50.0000	55.64	
	90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	264000	50.0000	52.45	
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	91340	50.0000	46.81	
	92 Naphthalene	128	11.540	11.540	(1.194)	685081	50.0000	56.71	
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	255876	50.0000	53.13	
M	94 1,2-Dichloroethylene (total)	96				252340	100.000		(a)
	141 Cyclohexane	56	4.121	4.121	(0.987)	129695	50.0000	40.73	
	138 Freon TF	101	1.913	1.913	(0.458)	74971	50.0000	44.93	
	147 Methylcyclohexane	55	5.377	5.377	(1.083)	309339	50.0000	50.19	
	146 Methyl Acetate	43	2.228	2.228	(0.533)	87092	50.0000	50.08	
	148 Tert-Butyl alcohol	59	2.423	2.423	(0.580)	306642	1000.00	967.93	
	149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	156876	1000.00	926.71	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Date : 23-MAR-2023 11:08
Client ID: CCV
Sample Info: CCV;CCV;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: PC
Column diameter: 0.18

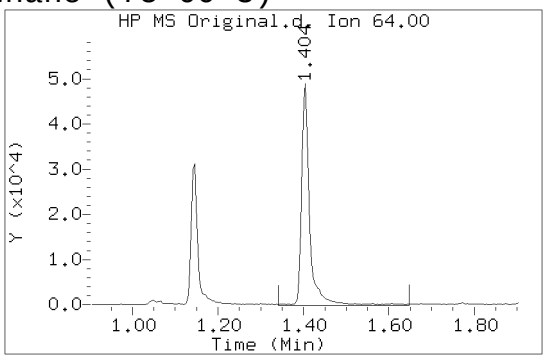
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032303.D
Inj Date : 23-MAR-2023 11:08
InstruID : voa6.i
LabSampID : CCV

Chloroethane (75-00-3)

Reason Code:

BEFORE

MASS
64
AREA
67599
HEIGHT
49036
04-Apr-2023
11:52
linh
pham



AFTER

MASS
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AREA
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HEIGHT
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04-Apr-2023
11:52
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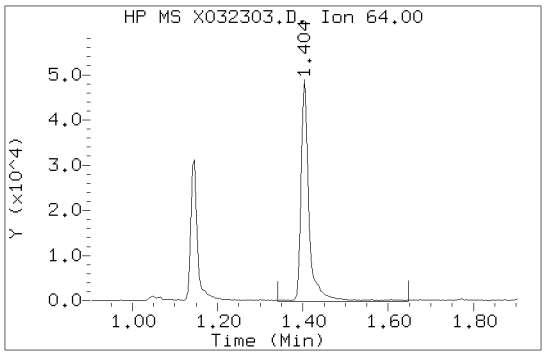
pham



BEFORE

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04-Apr-2023
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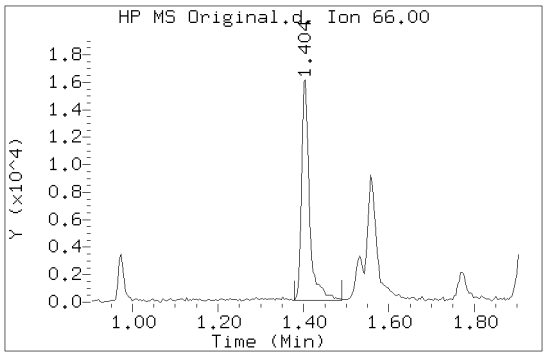

AFTER

MASS
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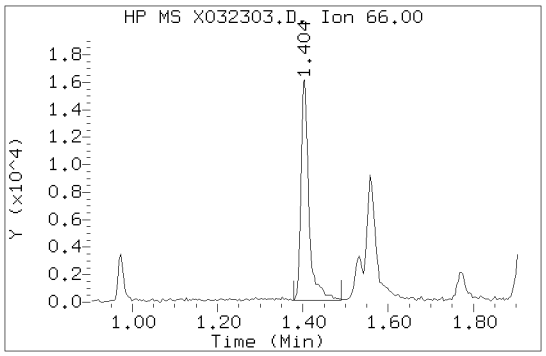
AREA
21278
HEIGHT
16010
04-Apr-2023
11:52
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032304.D Page 1
Report Date: 04-Apr-2023 11:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032304.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 23-MAR-2023 11:29
Operator : PC Inst ID: voa6.i
Smp Info : CCB;CCB;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\8260W.m
Meth Date : 04-Apr-2023 11:52 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	441641	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.095	(0.981)	176236	42.7140	42.71
$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	183333	38.7440	38.74
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	620752	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	556662	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	738486	53.5146	53.51
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	261390	49.5973	49.59
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	284770	50.0000	

01185446

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032304.D

Page 1

Date : 23-MAR-2023 11:29

Client ID: CCB

Instrument: voa6.i

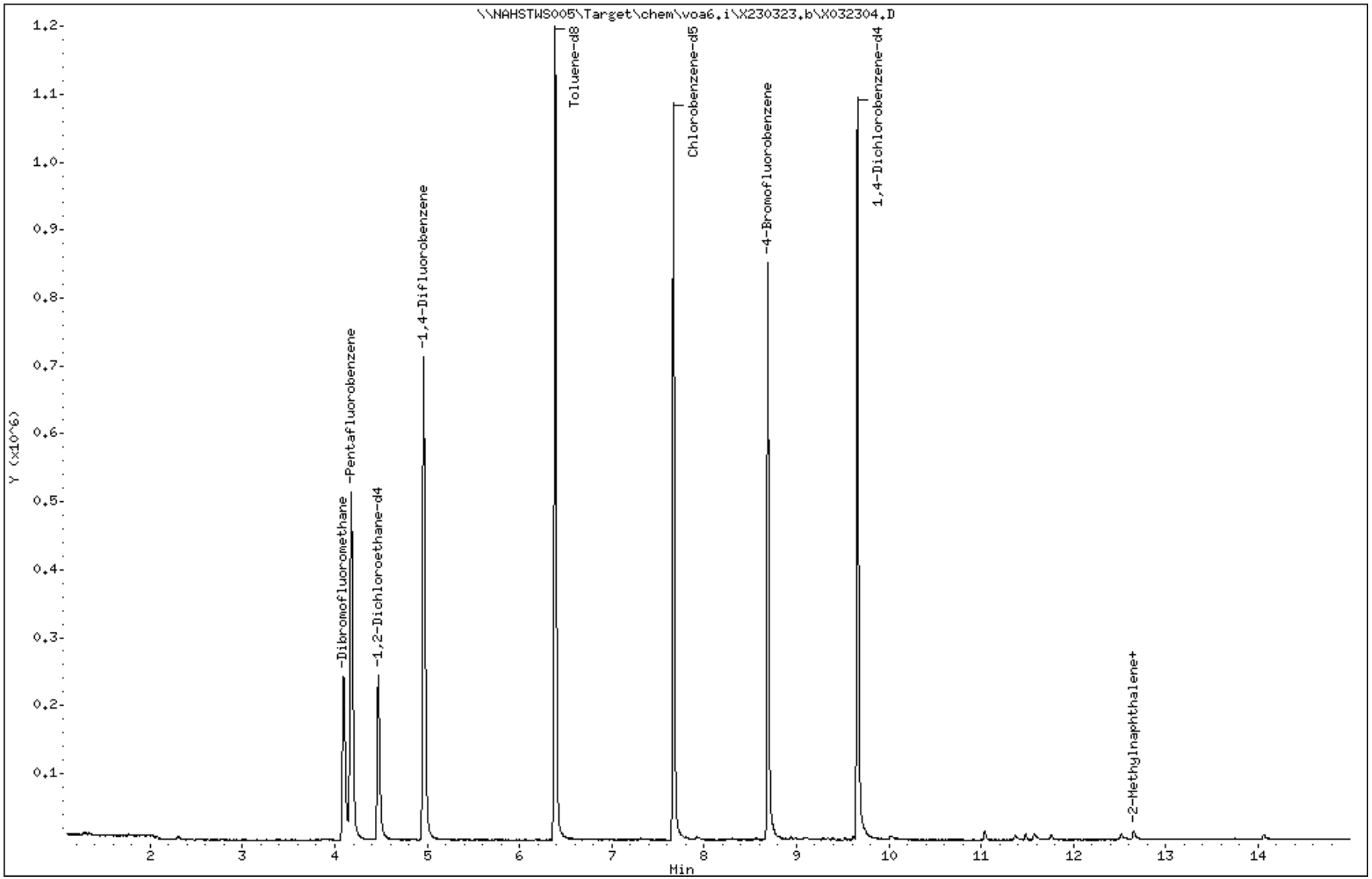
Sample Info: CCB;CCB;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 23-MAR-2023 11:29
InstruID : voa6.i
LabSampID : CCB

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032305.D
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Inj Date : 23-MAR-2023 11:50
Operator : PC Inst ID: voa6.i
Smp Info : VLCSW-230323;VLCSW-230323;3;;LCS
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\8260W.m
Meth Date : 04-Apr-2023 11:52 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.177	4.178	(1.000)	326763	50.0000	
135	1,4-Dioxane	88	5.594	5.598	(1.339)	16581	382.417	382.41(a)
140	1,3-Butadiene	54	1.164	1.164	(0.279)	37611	16.9724	16.97
25	Methacrylonitrile	41	3.818	3.818	(0.914)	60306	20.0246	20.02
12	Isobutyl Alcohol	43	4.676	4.672	(1.119)	181262	406.586	406.58
13	Acetonitrile	39	2.198	2.198	(0.526)	52339	172.101	172.10
14	Allyl Chloride	41	2.198	2.195	(0.526)	133839	17.7925	17.79
4	Propionitrile	54	3.649	3.645	(0.873)	93276	202.589	202.58(a)
142	Tetrahydrofuran	42	3.848	3.840	(0.921)	21637	40.5499	40.54
145	alpha-Methylstyrene	118	9.257	9.257	(0.958)	114344	20.5403	20.54
156	Diisopropyl ether	45	2.997	2.997	(0.717)	183125	18.0515	18.05
182	Epichlorohydrin	57	6.097	6.093	(1.228)	26437	94.1027	94.10
166	1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	229543	18.7459	18.74
2	Dichlorodifluoromethane	85	0.972	0.973	(0.233)	38737	18.1590	18.15
3	Chloromethane	50	1.077	1.078	(0.258)	60806	20.2300	20.23
5	Vinyl Chloride	62	1.141	1.141	(0.273)	46598	18.1053	18.10
6	Bromomethane	94	1.340	1.340	(0.321)	30977	20.9333	20.93
7	Chloroethane	64	1.403	1.404	(0.336)	30186	16.5380	16.53
8	Trichlorofluoromethane	101	1.561	1.561	(0.374)	53275	17.4513	17.45
9	Acrolein	56	1.445	1.445	(0.346)	4994	29.1715	29.17

10 Acetone	43	1.973	1.970 (0.472)	35031	37.8971	37.89
11 1,1-Dichloroethene	96	1.913	1.913 (0.458)	33696	17.1720	17.17

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032305.D Page 2
Report Date: 04-Apr-2023 11:52

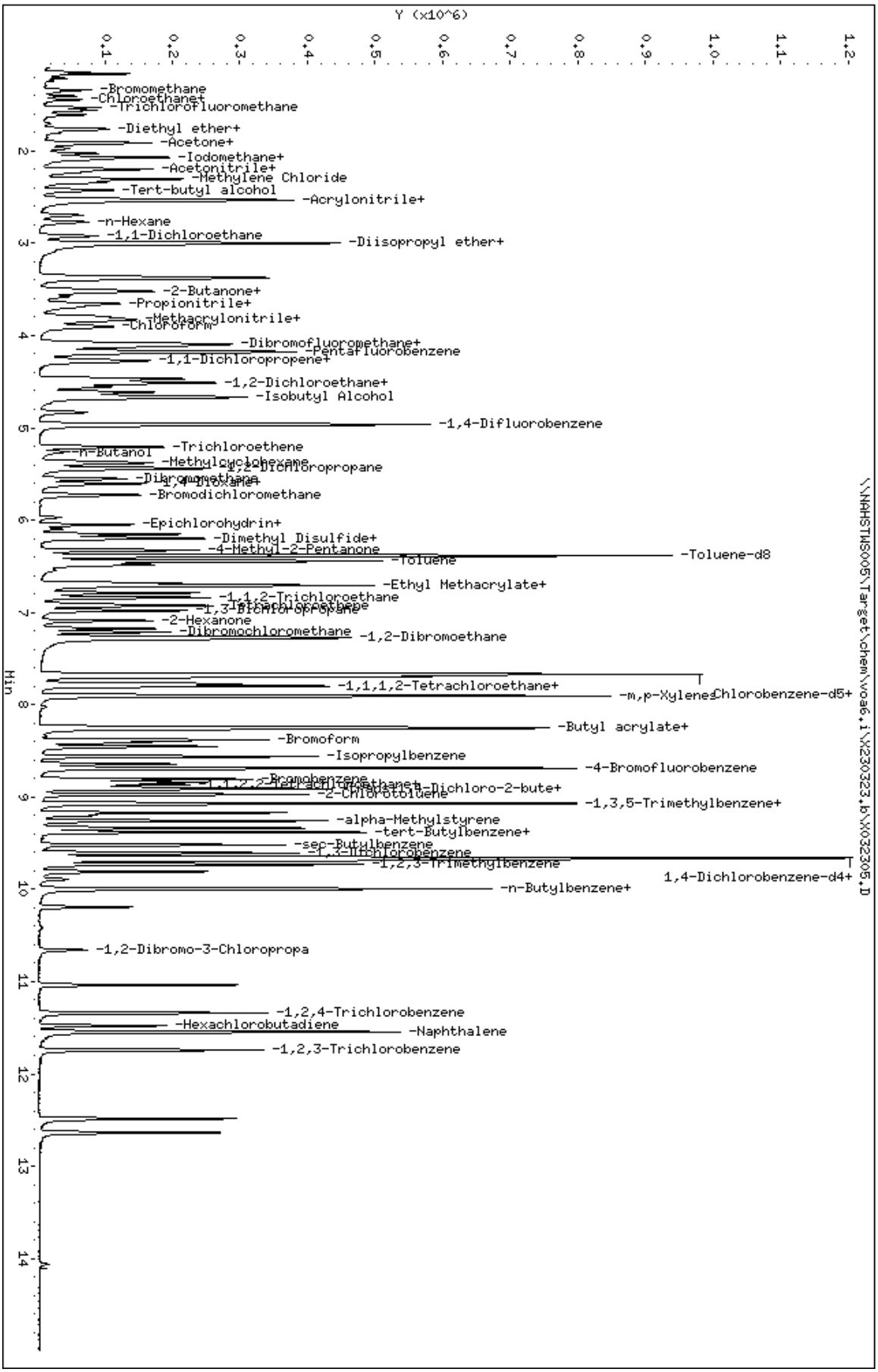
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	15 Iodomethane	142	2.029	2.026	(0.486)	91384	46.3112	46.31
	16 Acrylonitrile	53	2.536	2.532	(0.607)	42718	39.1752	39.17
	17 Methylene Chloride	84	2.303	2.303	(0.551)	65269	19.4066	19.40
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	195019	18.8751	18.87
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	241845	33.5447	33.54
	20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	52113	18.8296	18.82
	21 Vinyl Acetate	43	2.997	2.997	(0.717)	344414	41.2988	41.29
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	93299	18.6136	18.61
	24 2-Butanone	43	3.578	3.574	(0.856)	45596	38.9718	38.97
	26 2,2-Dichloropropane	77	3.506	3.510	(0.839)	78130	19.6341	19.63
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	62637	18.7019	18.70
	28 Chloroform	83	3.908	3.900	(0.935)	102511	18.4265	18.42
	29 Bromochloromethane	128	3.791	3.792	(0.908)	36543	19.2805	19.28
$	30 Dibromofluoromethane	113	4.099	4.095	(0.981)	147697	48.4847	48.48
	31 1,1,1-Trichloroethane	97	4.080	4.076	(0.977)	78039	18.7585	18.75
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	64385	18.3239	18.32
	33 1,2-Dichloroethane	62	4.556	4.553	(0.918)	84514	20.6441	20.64
	34 Carbon Tetrachloride	117	4.264	4.260	(0.859)	60970	18.1263	18.12
$	35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	159762	45.4460	45.44
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	492457	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	240056	19.8244	19.82
	38 Trichloroethene	130	5.208	5.205	(1.049)	63577	19.4926	19.49
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	89070	20.7218	20.72
	41 2-Chloroethylvinyl ether	63	6.048	6.044	(1.218)	55795	42.6941	42.69
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	66073	20.2475	20.24
	44 Dibromomethane	93	5.553	5.553	(1.119)	43952	21.1153	21.11
	45 4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	131531	44.9218	44.92
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	112208	20.6677	20.66
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	462766	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	556896	48.5439	48.54
	50 Toluene	91	6.445	6.446	(0.841)	253124	20.8481	20.84
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	96996	21.5203	21.52
	52 2-Hexanone	43	7.086	7.083	(0.924)	89160	44.3675	44.36
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	55437	21.0014	21.00
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	113723	21.6774	21.67
	55 Dibromochloromethane	129	7.176	7.173	(0.936)	78543	21.0629	21.06
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	46744	19.2054	19.20
	57 1,2-Dibromoethane	107	7.263	7.259	(0.947)	72293	22.1569	22.15
	58 1-Chlorohexane	55	7.697	7.694	(1.550)	40589	18.7297	18.72
	59 Chlorobenzene	112	7.694	7.694	(1.003)	178924	20.6214	20.62
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	70171	20.9868	20.98
	61 Ethylbenzene	106	7.799	7.799	(1.017)	83659	19.5919	19.59
	62 m,p-Xylenes	106	7.904	7.900	(1.031)	213933	39.8098	39.80
	63 o-Xylene	106	8.241	8.241	(1.075)	109363	20.2529	20.25
	64 Styrene	104	8.260	8.256	(1.077)	192378	21.5608	21.56
	66 Bromoform	173	8.410	8.410	(1.097)	58781	22.7972	22.79
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	229924	18.5910	18.59
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	99028	22.2580	22.25
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	217904	49.7358	49.73
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	255337	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	73027	21.8402	21.84(M)
	73 n-Propylbenzene	91	8.912	8.908	(0.922)	266999	18.8143	18.81

74	Bromobenzene	156	8.803	8.803 (0.911)	88024	21.4424	21.44
75	1,3,5-Trimethylbenzene	105	9.066	9.066 (0.938)	213130	19.3627	19.36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
76	2-Chlorotoluene	91	8.972	8.972	(0.929)	192596	20.1852	20.18
77	4-Chlorotoluene	91	9.069	9.070	(0.939)	221080	20.5575	20.55
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	163053	18.5984	18.59
79	1,2,4-Trimethylbenzene	105	9.381	9.377	(0.971)	226370	20.0527	20.05
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	205469	17.2914	17.29
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	193051	18.2070	18.20
83	1,3-Dichlorobenzene	146	9.605	9.602	(0.994)	141275	19.8978	19.89
84	1,4-Dichlorobenzene	146	9.680	9.681	(1.002)	152260	19.9530	19.95
87	n-Butylbenzene	91	9.995	9.992	(1.035)	155682	18.2175	18.21
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	150440	21.1843	21.18
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	18055	22.8617	22.86
90	1,2,4-Trichlorobenzene	180	11.337	11.338	(1.173)	104582	20.1434	20.14
91	Hexachlorobutadiene	225	11.480	11.476	(1.188)	33578	18.3644	18.36
92	Naphthalene	128	11.544	11.540	(1.195)	269750	21.6476	21.64
93	1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	99706	20.0691	20.06
M 94	1,2-Dichloroethylene (total)	96				114750	37.5314	37.53
M 95	Xylenes (total)	106				323296	60.0627	60.06
141	Cyclohexane	56	4.121	4.121	(0.987)	58497	18.3341	18.33
138	Freon TF	101	1.913	1.913	(0.458)	30065	17.8204	17.82
147	Methylcyclohexane	55	5.381	5.377	(1.084)	134233	19.7416	19.74
146	Methyl Acetate	43	2.232	2.228	(0.534)	39000	20.7649	20.76
148	Tert-Butyl alcohol	59	2.427	2.423	(0.581)	133910	391.326	391.32
149	Isopropyl Alcohol	45	2.093	2.090	(0.501)	65609	358.807	358.80

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Client ID: VLCSW-230323
Sample Info: VLCSW-230323;VLCSW-230323;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 23-MAR-2023 11:50
InstruID : voa6.i
LabSampID : VLCSW-230323

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

MASS
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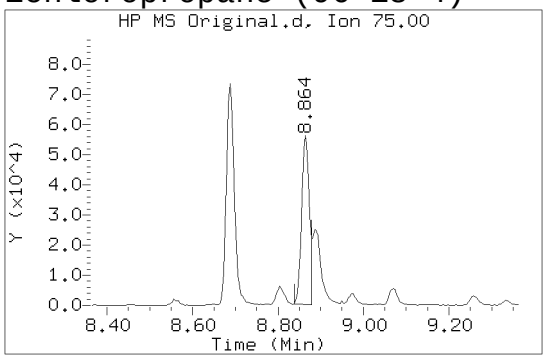
HEIGHT
56051
04-Apr-2023
11:52
linh
pham



AFTER

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04-Apr-2023
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linh
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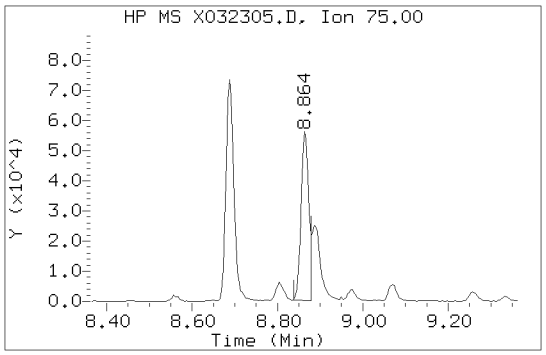

BEFORE

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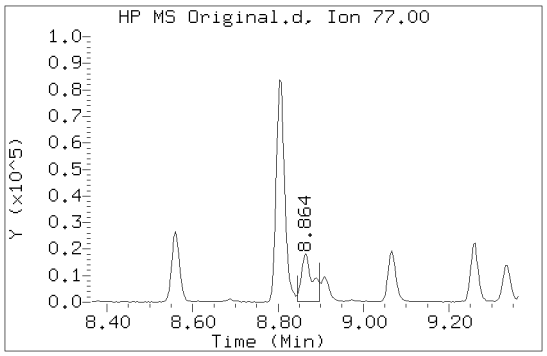
04-Apr-2023
11:52
linh
pham



AFTER

MASS
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04-Apr-2023
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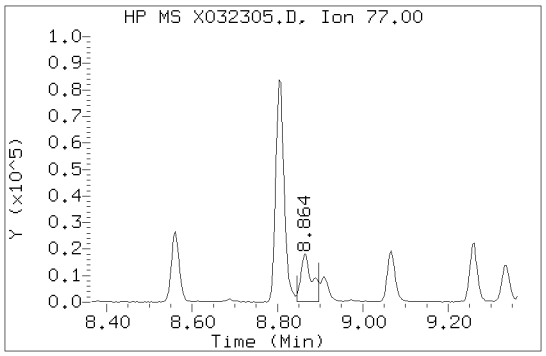

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Report Date: 04-Apr-2023 11:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032307.D
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Inj Date : 23-MAR-2023 12:33
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-230323;VBLKW-230323;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\8260W.m
Meth Date : 04-Apr-2023 11:52 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.177	4.178	(1.000)	450970	50.0000	
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	184230	43.7462	43.74
$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	198933	41.1054	41.10(M)
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	625633	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	544501	50.0000	
$ 48 Toluene-d8	98	6.385	6.386	(0.833)	729938	54.0766	54.07
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	252901	49.0564	49.05
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	282886	50.0000	

QC Flag Legend

M - Compound response manually integrated.

01185456

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032307.D

Date : 23-MAR-2023 12:33

Client ID: VBLKW-230323

Instrument: voa6.i

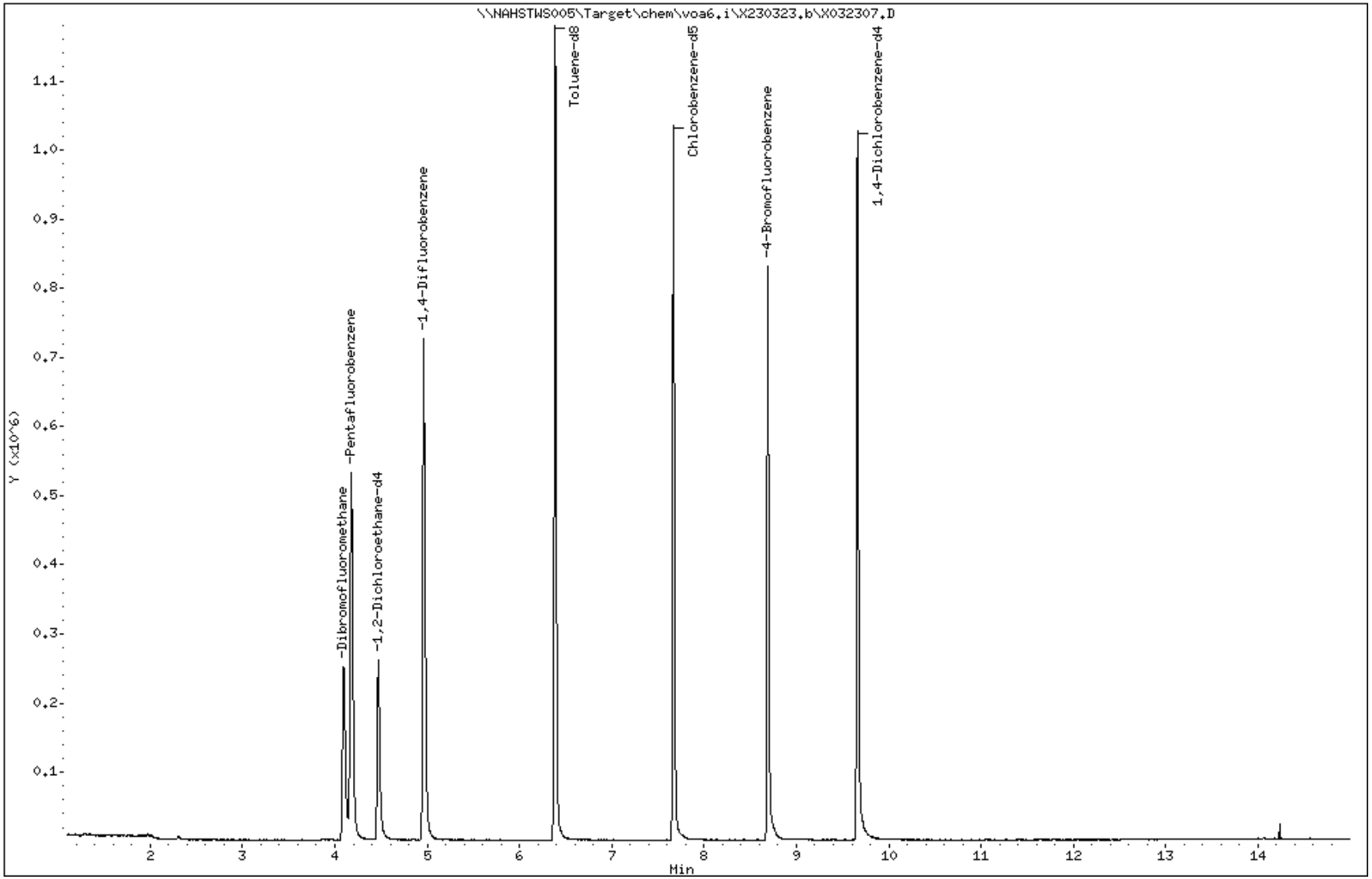
Sample Info: VBLKW-230323;VBLKW-230323;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Inj Date : 23-MAR-2023 12:33
InstruID : voa6.i
LabSampID : VBLKW-230323

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

BEFORE

MASS
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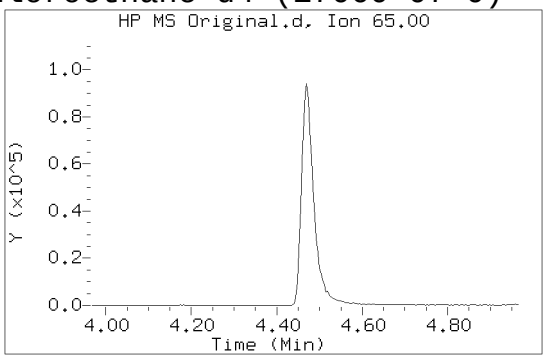
AREA
198933
HEIGHT
94096
04-Apr-2023
11:52
linh
pham



AFTER

MASS
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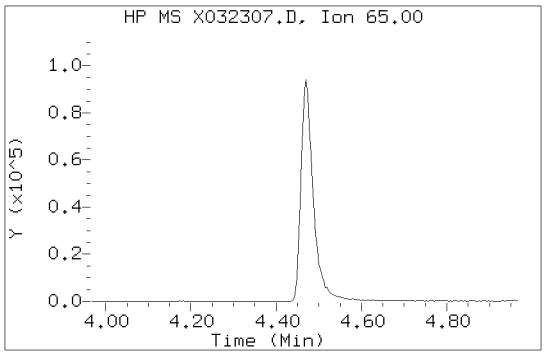
AREA
198933
HEIGHT
94096
04-Apr-2023
11:52
linh
pham



BEFORE

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11:52
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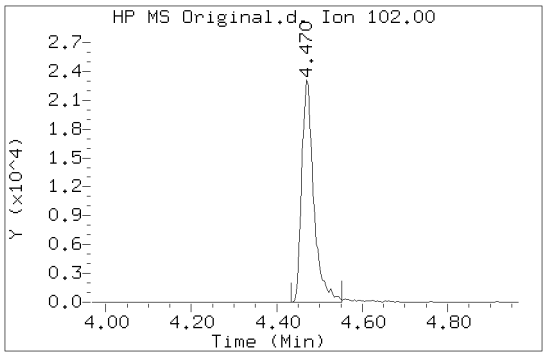
pham



AFTER

MASS
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46124
HEIGHT
23112
04-Apr-2023
11:52
linh
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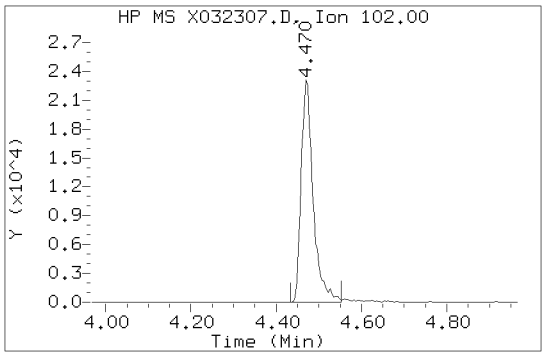

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Report Date: 04-Apr-2023 11:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032310.D
Lab Smp Id: HS23031294-02 Client Smp ID: HS23031294-02
Inj Date : 23-MAR-2023 13:36
Operator : PC Inst ID: voa6.i
Smp Info : HS23031294-02;HS23031294-02;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\8260W.m
Meth Date : 04-Apr-2023 11:52 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	456748	50.0000	
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	15440	3.61833	3.61(a)
$ 30 Dibromofluoromethane	113	4.095	4.095	(0.980)	186975	43.8379	43.83
$ 35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	198523	40.5172	40.51(M)
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	639543	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	594149	50.0000	
$ 48 Toluene-d8	98	6.386	6.386	(0.833)	761880	51.7265	51.72
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	287243	51.0693	51.06
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	319525	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01185459

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032310.D

Date : 23-MAR-2023 13:36

Client ID: HS23031294-02

Instrument: voa6.i

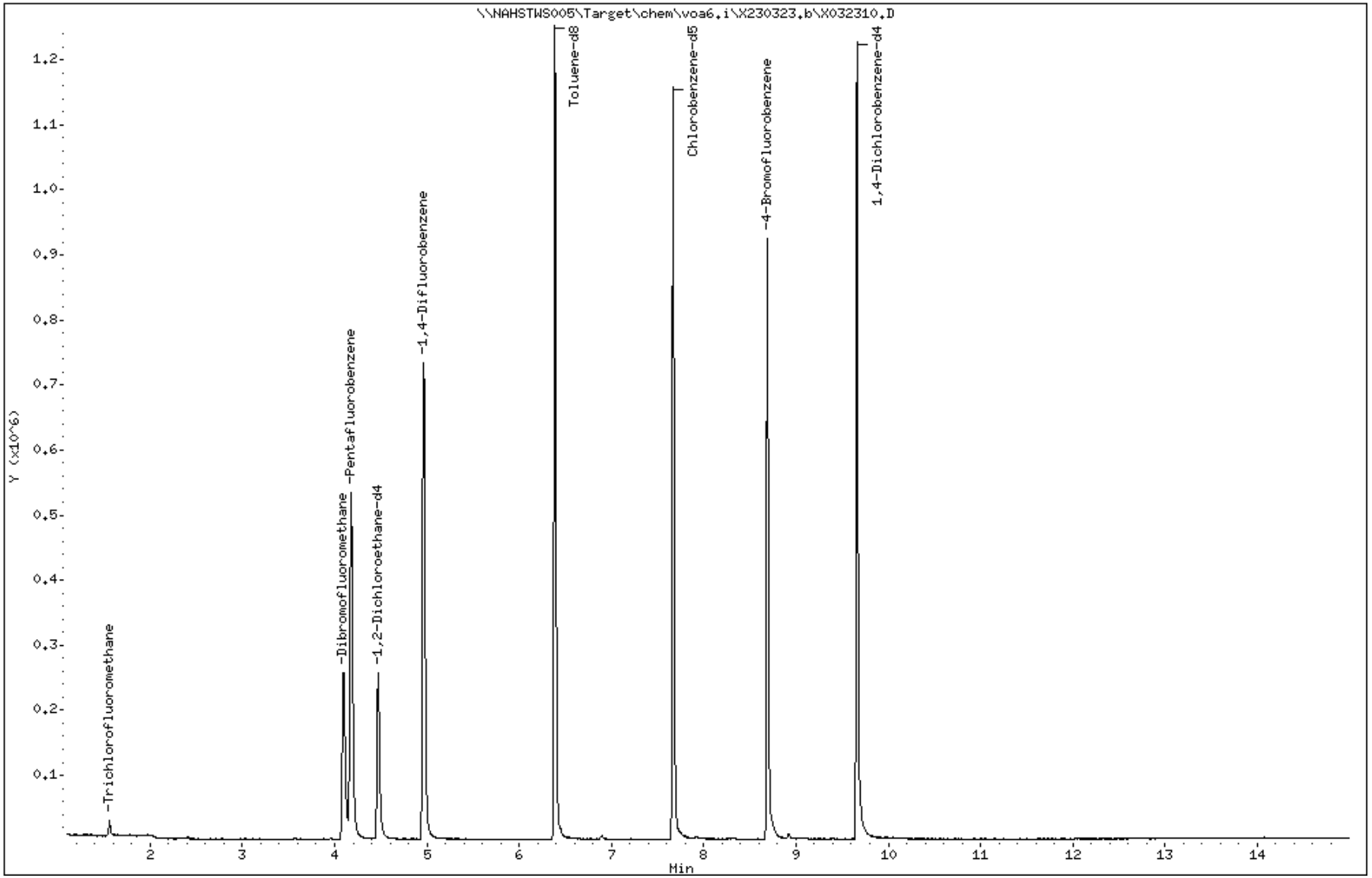
Sample Info: HS23031294-02;HS23031294-02;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Date : 23-MAR-2023 13:36

Client ID: HS23031294-02

Instrument: voa6.i

Sample Info: HS23031294-02;HS23031294-02;;;

Purge Volume: 5.0

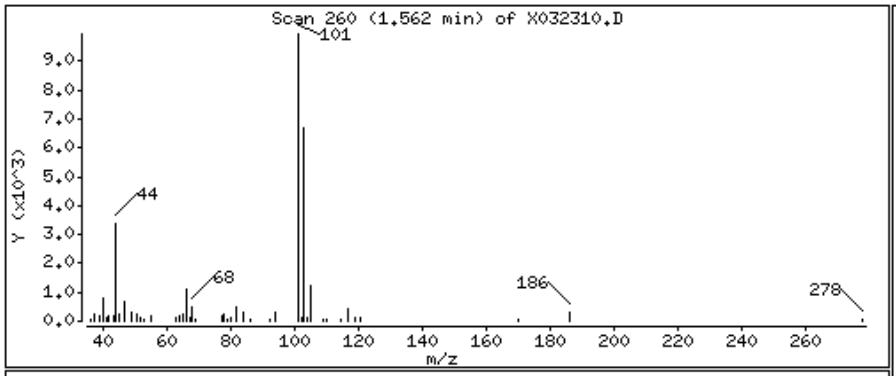
Operator: PC

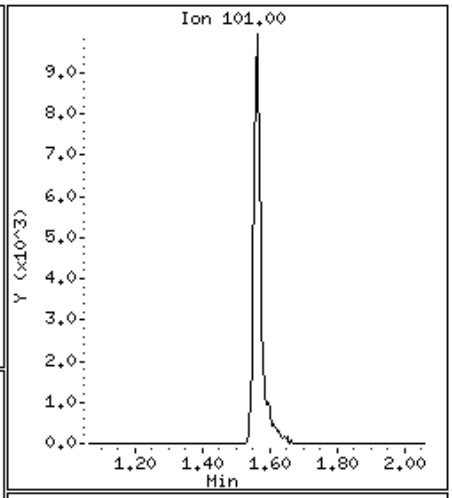
Column phase: DB624

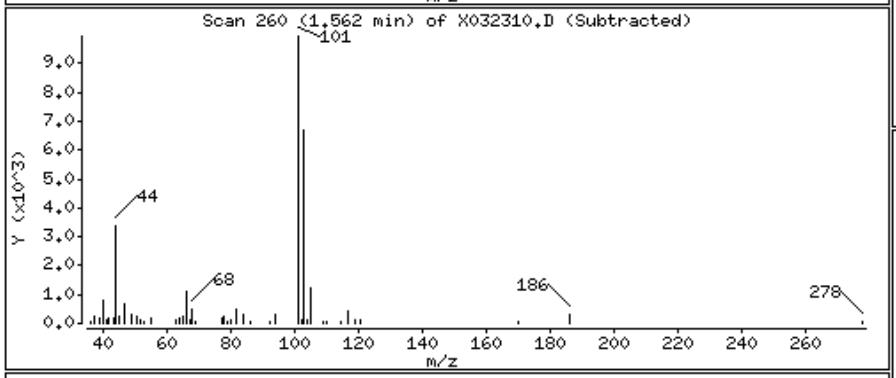
Column diameter: 0.18

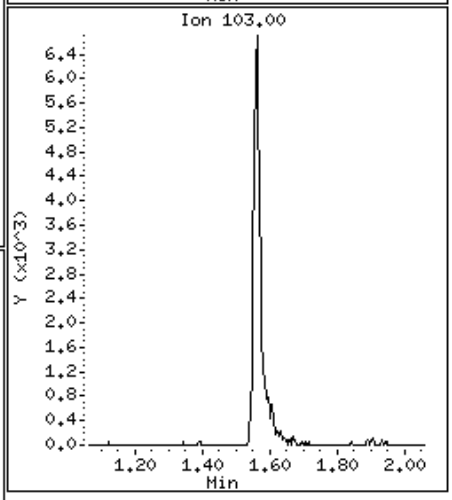
8 Trichlorofluoromethane

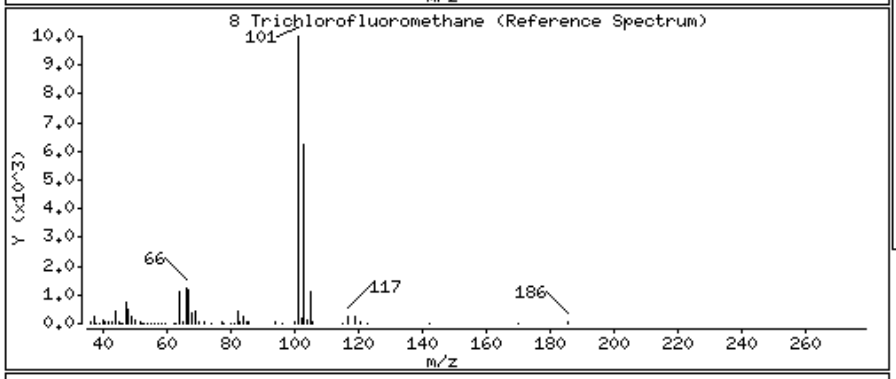
Concentration: 3.61 ug/l

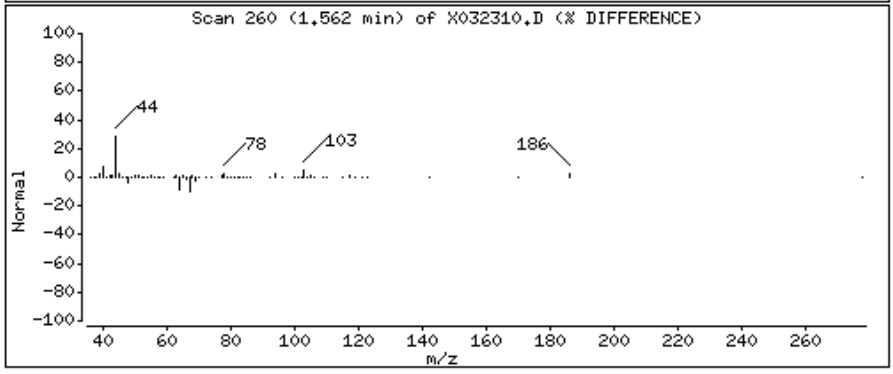












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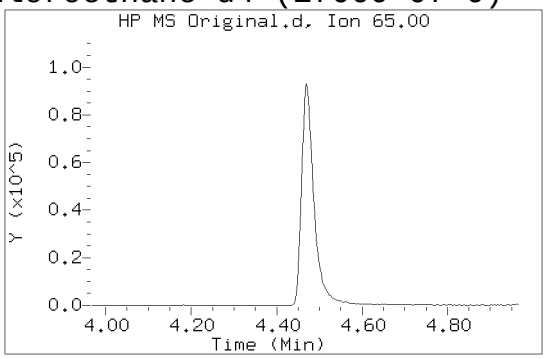
Inj Date : 23-MAR-2023 13:36
InstruID : voa6.i
LabSampID : HS23031294-02

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

BEFORE

MASS
65
AREA
198523
HEIGHT
93096
04-Apr-2023
11:52
linh
pham



AFTER

MASS
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AREA
198523
HEIGHT
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04-Apr-2023
11:52
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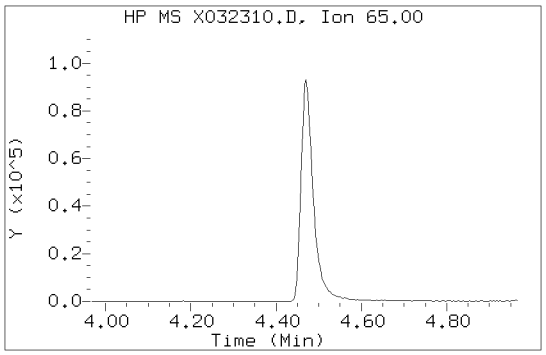

BEFORE

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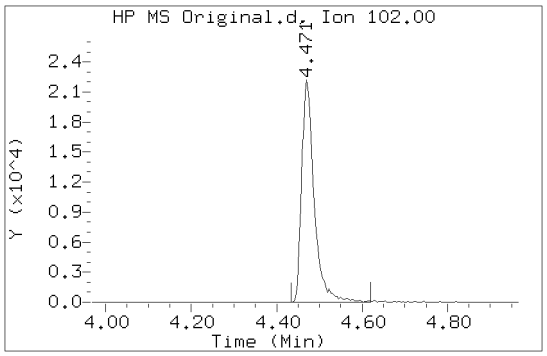
04-Apr-2023
11:52
linh
pham



AFTER

MASS
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04-Apr-2023
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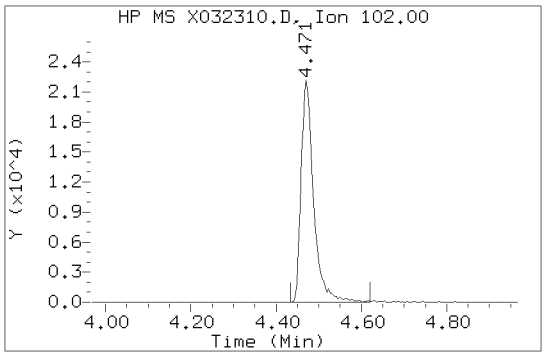


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032312.D Page 1
Report Date: 04-Apr-2023 11:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032312.D
Lab Smp Id: HS23031294-01 Client Smp ID: HS23031294-01
Inj Date : 23-MAR-2023 14:18
Operator : PC Inst ID: voa6.i
Smp Info : HS23031294-01;HS23031294-01;;;
Misc Info : V6;WATER;0;5;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\8260W.m
Meth Date : 04-Apr-2023 11:52 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 12
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
*	1	Pentafluorobenzene	168	4.177	4.178	(1.000)	441728	50.0000	
	5	Vinyl Chloride	62	1.145	1.141	(0.274)	66200	19.0272	95.13
	17	Methylene Chloride	84	2.303	2.303	(0.551)	646693	153.188	765.94
	20	trans-1,2-Dichloroethene	96	2.536	2.528	(0.607)	3323	0.88818	4.44(a)
	22	1,1-Dichloroethane	63	2.925	2.922	(0.700)	6321	0.93286	4.66(a)
	27	cis-1,2-Dichloroethene	96	3.521	3.525	(0.843)	1105393	244.146	1220.72(A)
	28	Chloroform	83	3.911	3.900	(0.936)	9010	1.19805	5.99(a)
$	30	Dibromofluoromethane	113	4.099	4.095	(0.981)	180709	43.8090	43.80
	33	1,2-Dichloroethane	62	4.560	4.553	(0.918)	19563	3.77677	18.88(a)
	34	Carbon Tetrachloride	117	4.256	4.260	(0.857)	3091	0.72629	3.63(a)
$	35	1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	192406	40.6017	40.60
*	36	1,4-Difluorobenzene	114	4.965	4.965	(1.000)	623090	50.0000	
	38	Trichloroethene	130	5.205	5.205	(1.048)	2180393	528.350	2641.74(A)
*	47	Chlorobenzene-d5	117	7.667	7.668	(1.000)	537351	50.0000	
$	48	Toluene-d8	98	6.385	6.386	(0.833)	714764	53.6570	53.65
	56	Tetrachloroethene	164	6.933	6.925	(0.904)	9277	3.28253	16.41(a)
$	69	4-Bromofluorobenzene	95	8.687	8.687	(1.133)	253425	49.8149	49.81
*	70	1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	285256	50.0000	
M	94	1,2-Dichloroethylene (total)	96				1108716	245.034	1225.16
	138	Freon TF	101	1.913	1.913	(0.458)	693641	223.628	1118.13(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

01185465

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032312.D

Page 1

Date : 23-MAR-2023 14:18

Client ID: HS23031294-01

Instrument: voa6.i

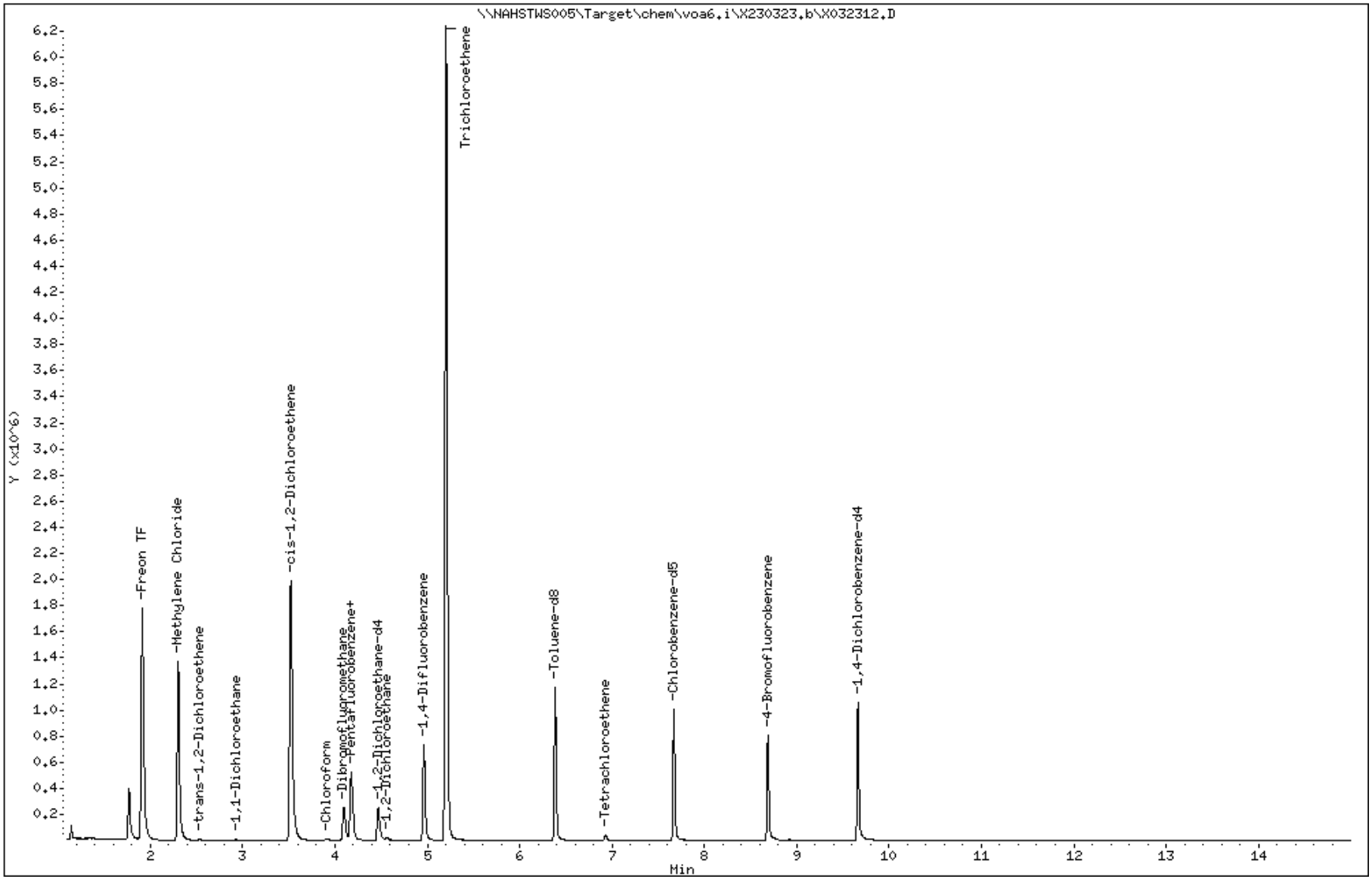
Sample Info: HS23031294-01;HS23031294-01;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



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Date : 23-MAR-2023 14:18

Client ID: HS23031294-01

Instrument: voa6.i

Sample Info: HS23031294-01;HS23031294-01;;;

Purge Volume: 5.0

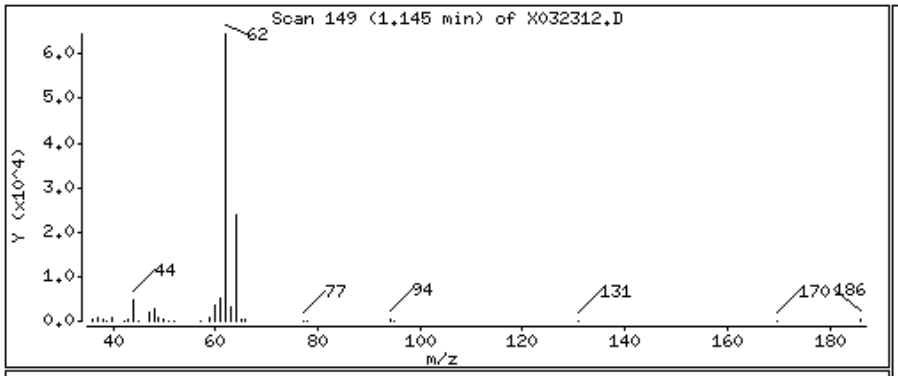
Operator: PC

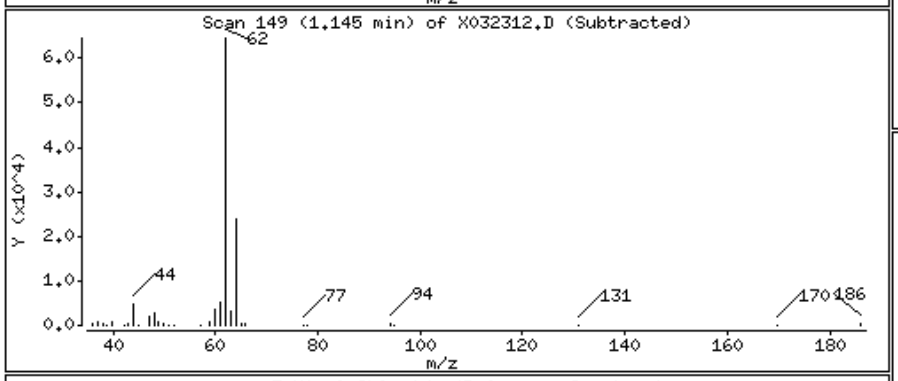
Column phase: DB624

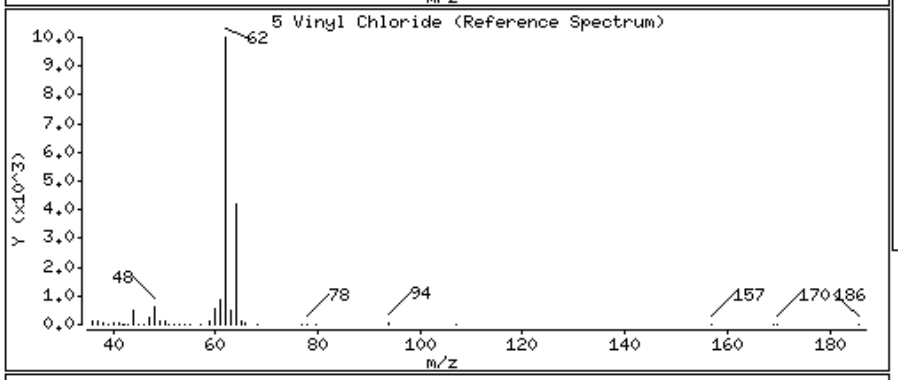
Column diameter: 0.18

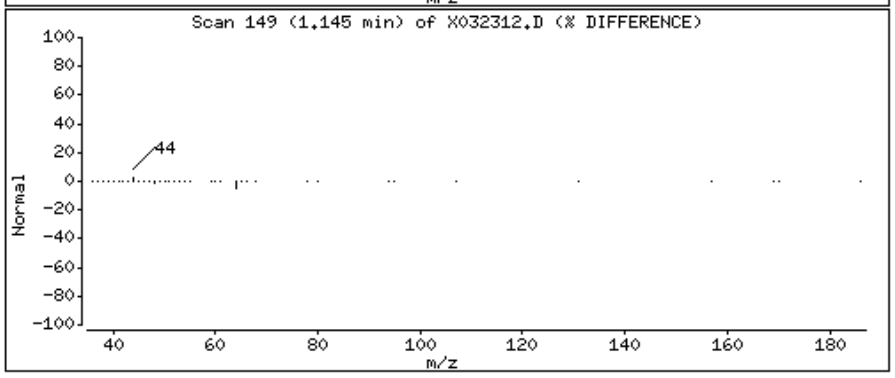
5 Vinyl Chloride

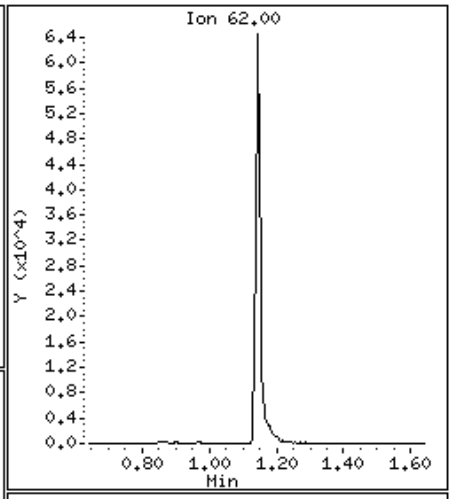
Concentration: 95.13 ug/l

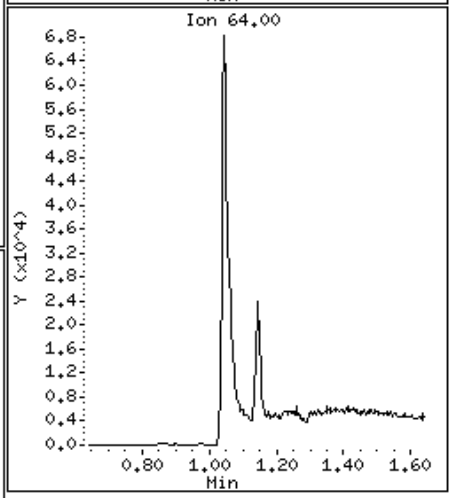












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032312.D

Date : 23-MAR-2023 14:18

Client ID: HS23031294-01

Instrument: voa6.i

Sample Info: HS23031294-01;HS23031294-01;;;

Purge Volume: 5.0

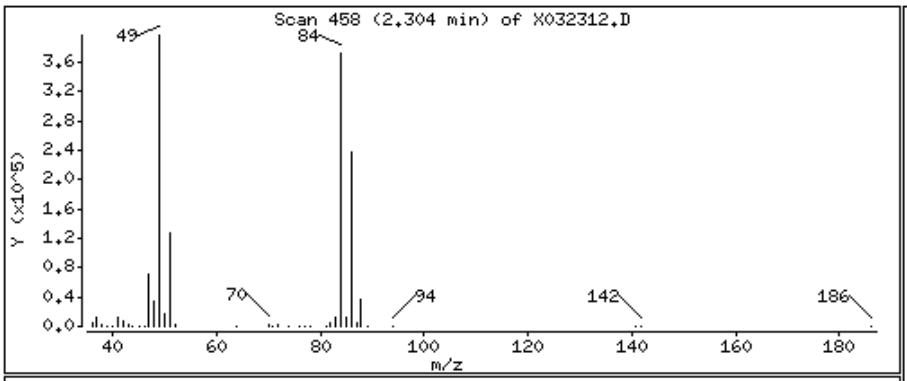
Operator: PC

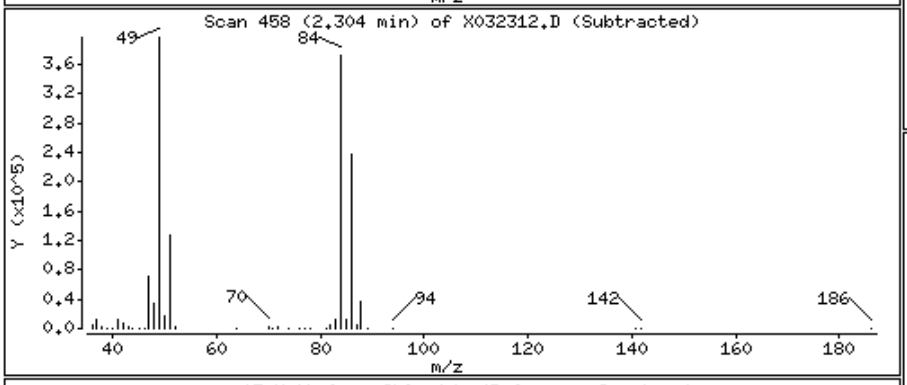
Column phase: DB624

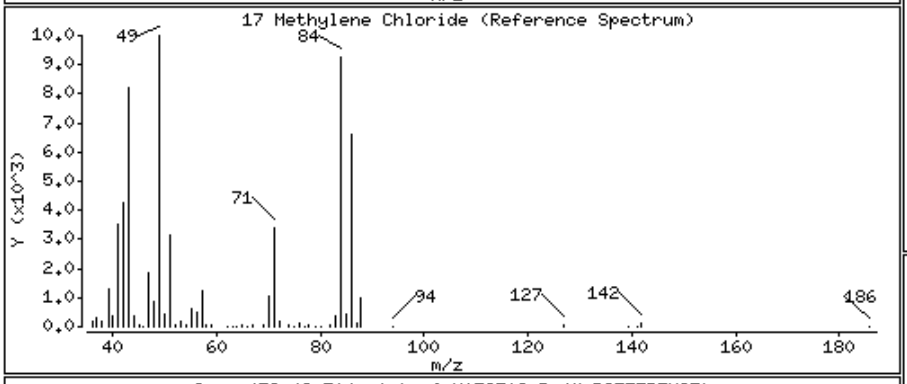
Column diameter: 0.18

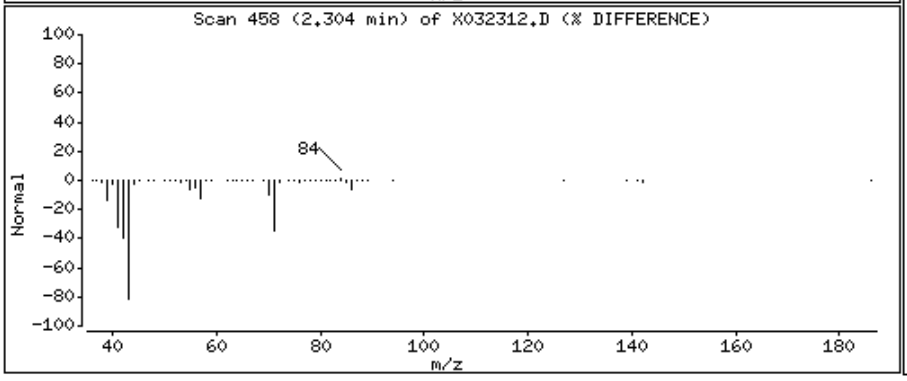
17 Methylene Chloride

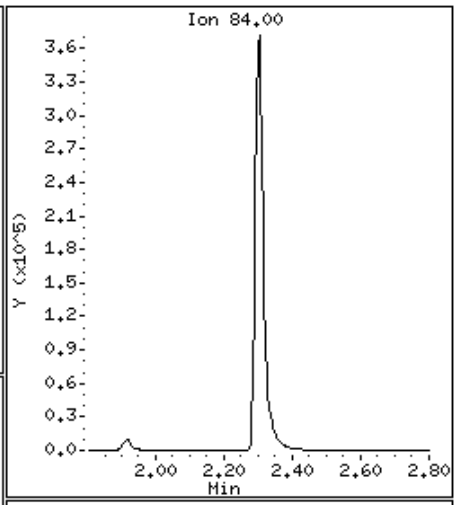
Concentration: 765.94 ug/l

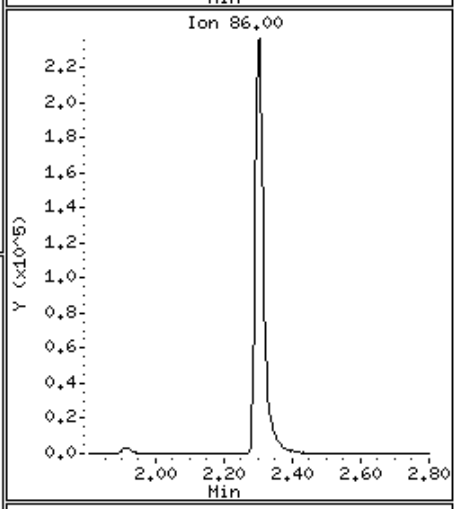


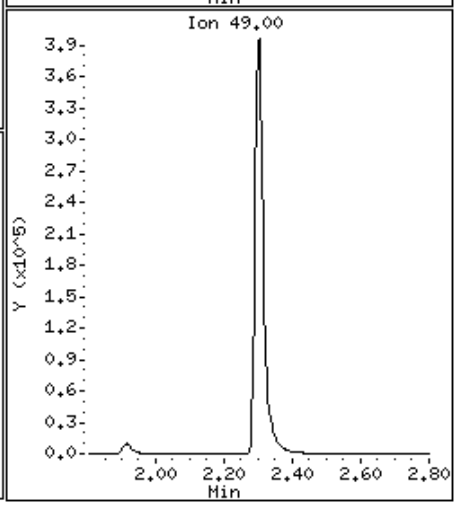












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032312.D

Date : 23-MAR-2023 14:18

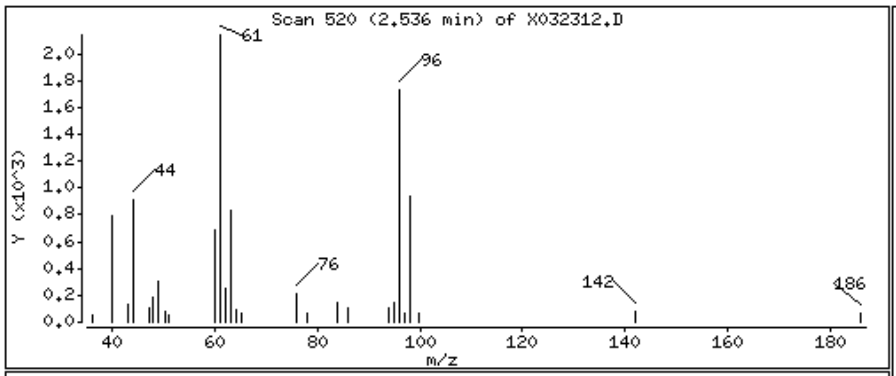
Client ID: HS23031294-01 Instrument: voa6.i

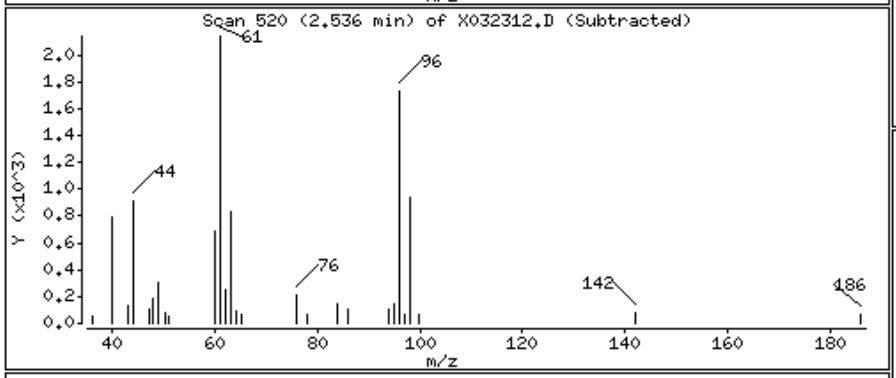
Sample Info: HS23031294-01;HS23031294-01;;;

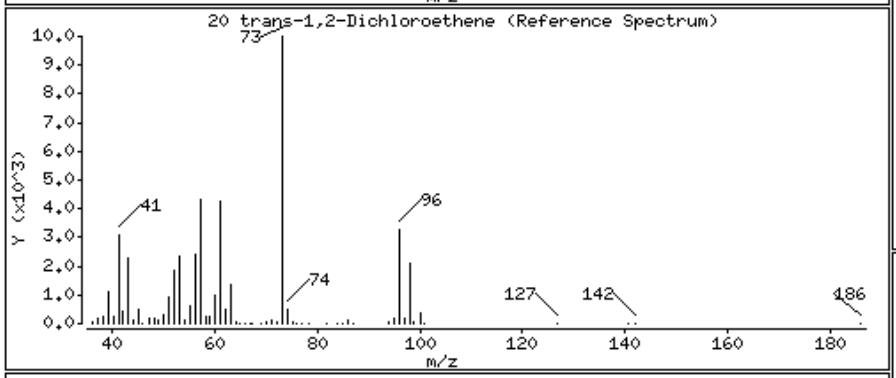
Purge Volume: 5.0 Operator: PC

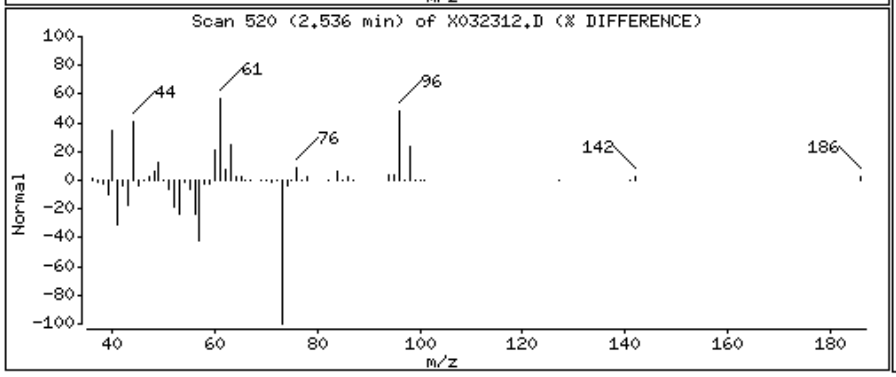
Column phase: DB624 Column diameter: 0.18

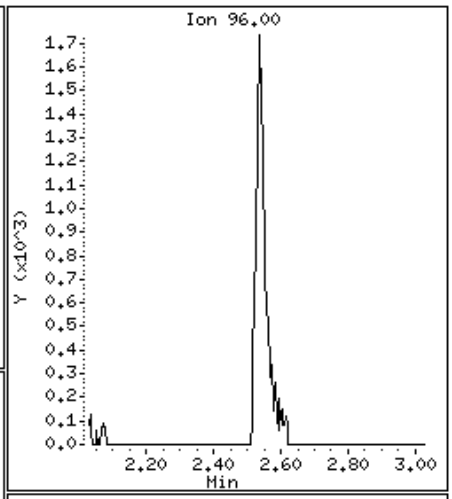
20 trans-1,2-Dichloroethene Concentration: 4.44 ug/l

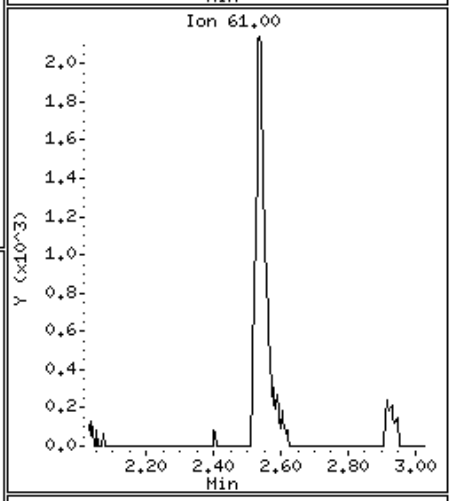


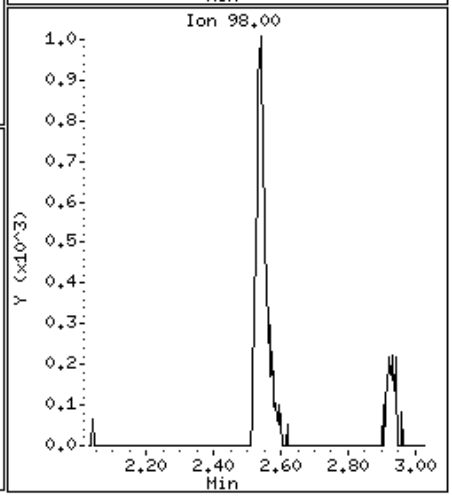












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032312.D Page 5

Date : 23-MAR-2023 14:18

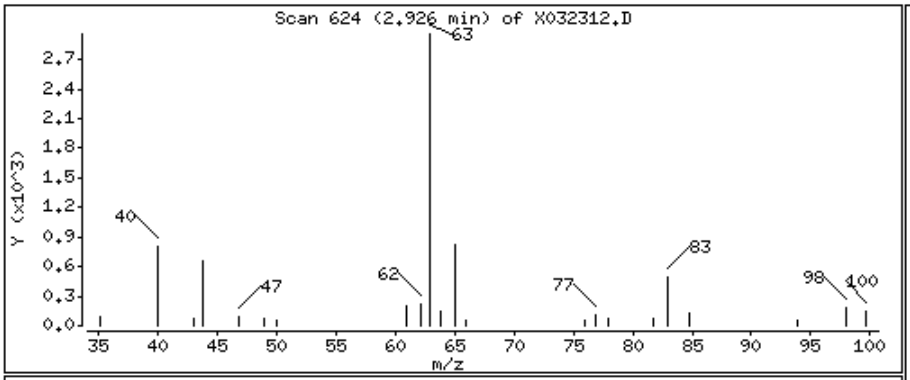
Client ID: HS23031294-01 Instrument: voa6.i

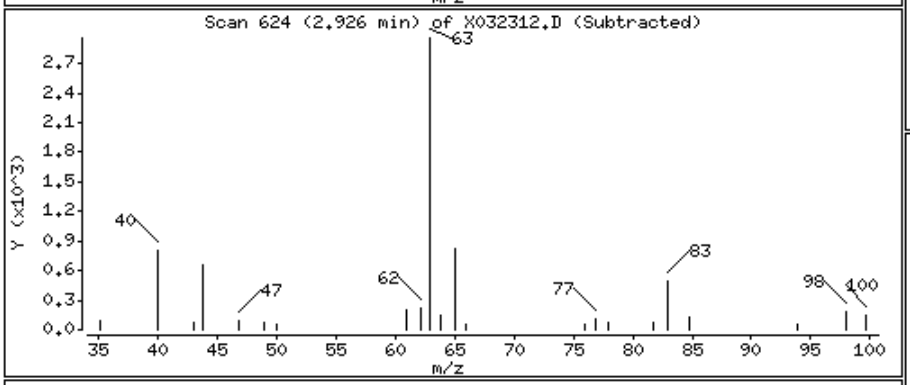
Sample Info: HS23031294-01;HS23031294-01;;;

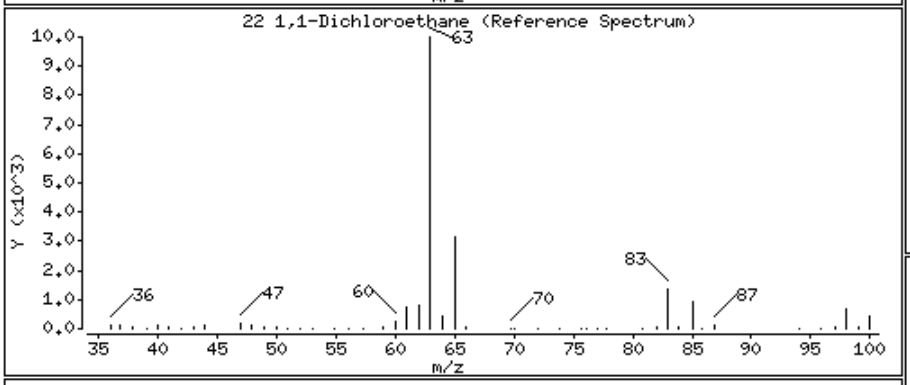
Purge Volume: 5.0 Operator: PC

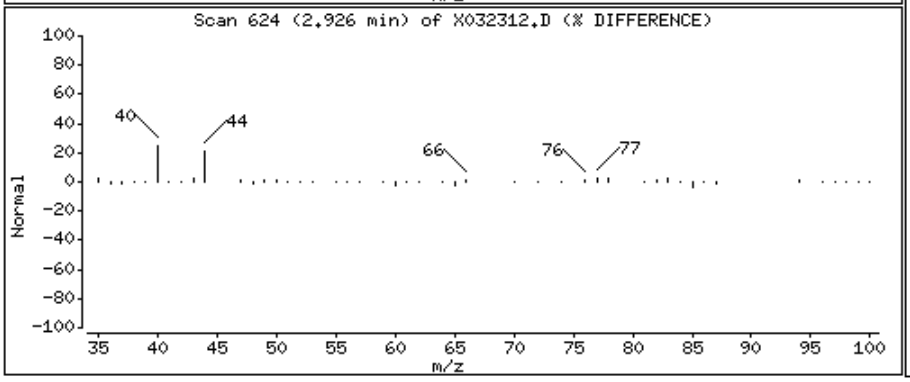
Column phase: DB624 Column diameter: 0.18

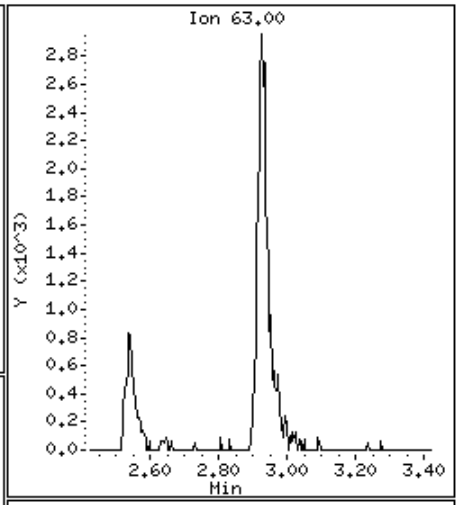
22 1,1-Dichloroethane Concentration: 4.66 ug/l

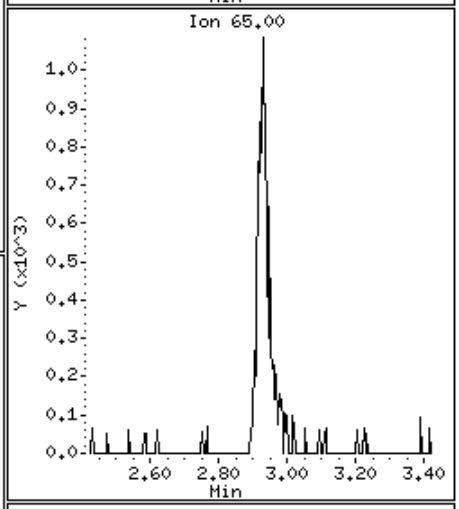


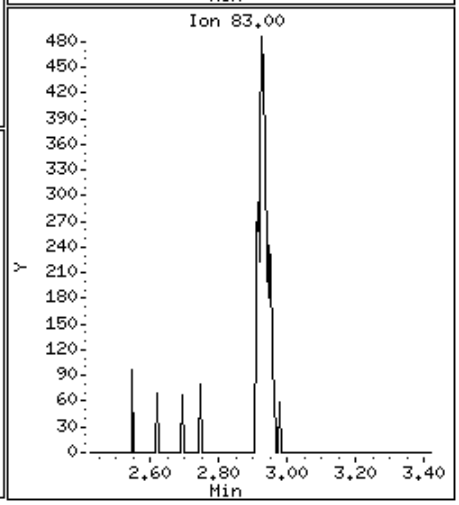












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032312.D Page 6

Date : 23-MAR-2023 14:18

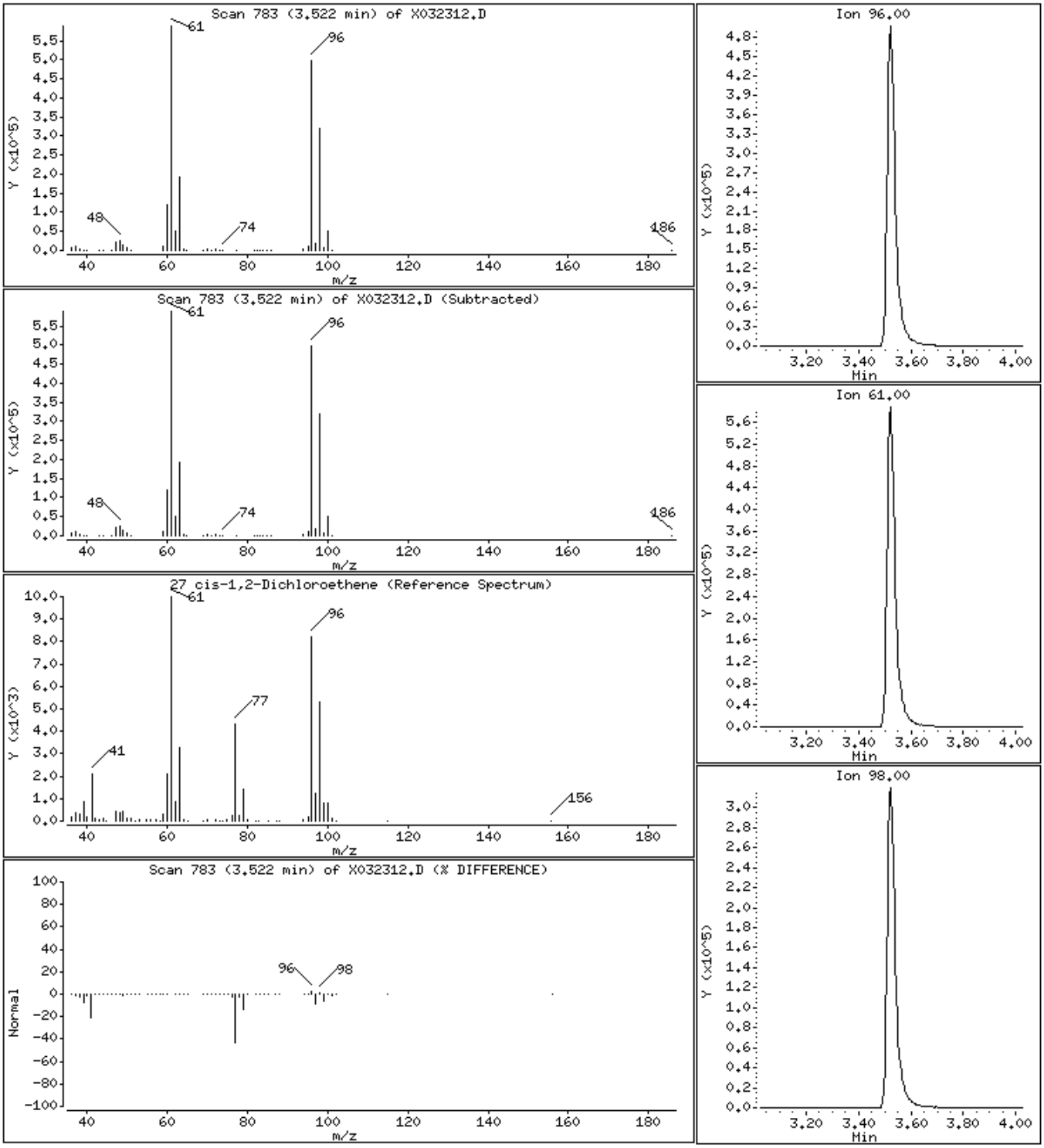
Client ID: HS23031294-01 Instrument: voa6.i

Sample Info: HS23031294-01;HS23031294-01;;;

Purge Volume: 5.0 Operator: PC

Column phase: DB624 Column diameter: 0.18

27 cis-1,2-Dichloroethene Concentration: 1220.72 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032312.D

Date : 23-MAR-2023 14:18

Client ID: HS23031294-01

Instrument: voa6.i

Sample Info: HS23031294-01;HS23031294-01;;;

Purge Volume: 5.0

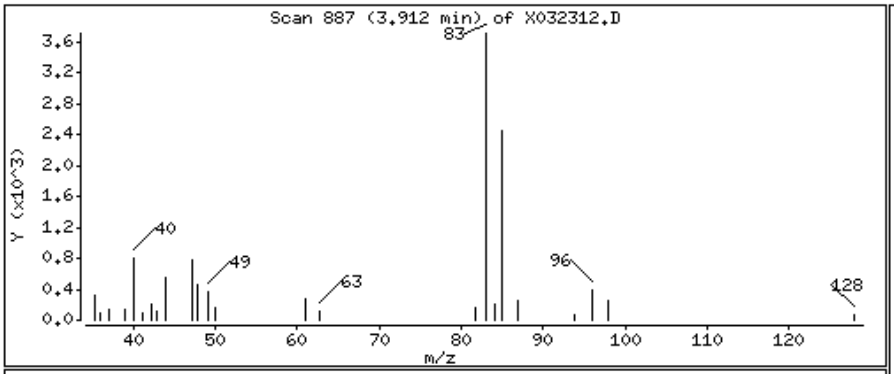
Operator: PC

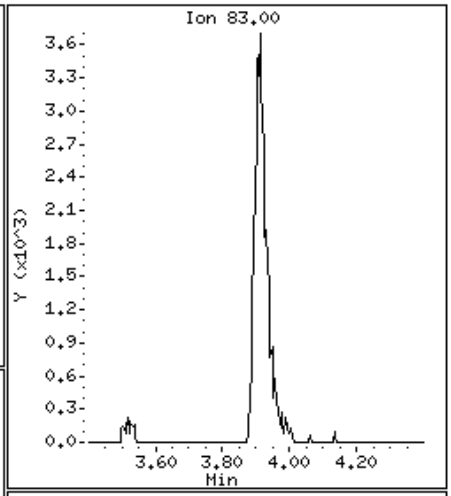
Column phase: DB624

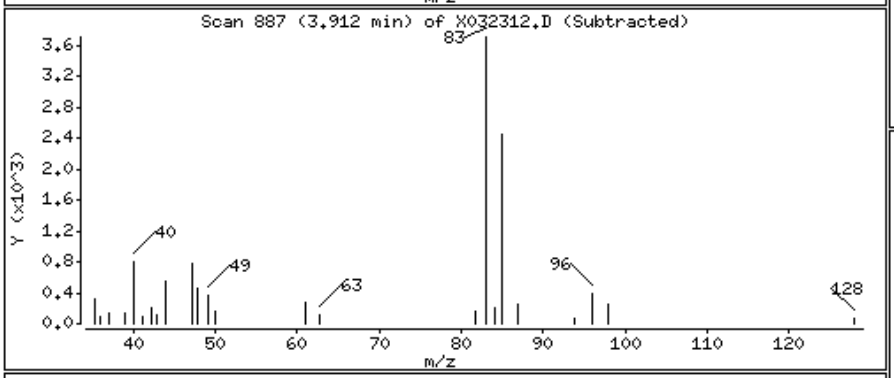
Column diameter: 0.18

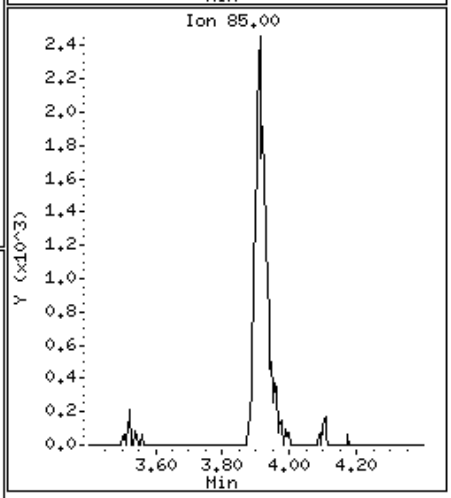
28 Chloroform

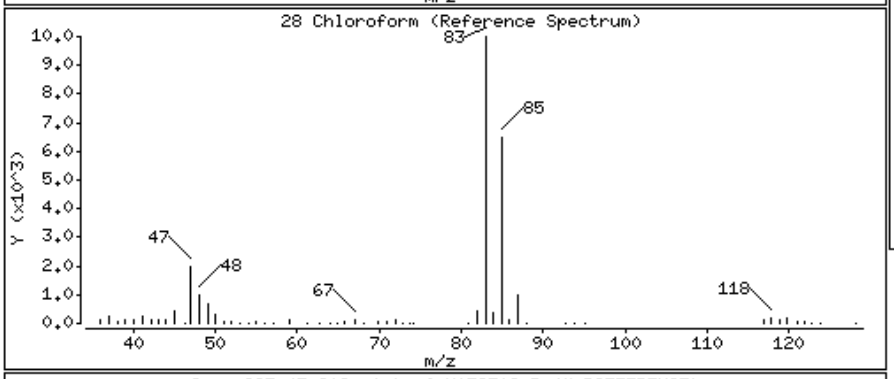
Concentration: 5.99 ug/l

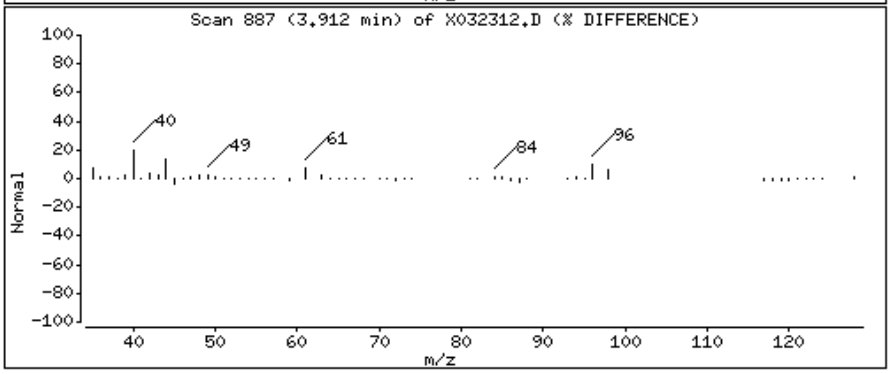












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032312.D

Date : 23-MAR-2023 14:18

Client ID: HS23031294-01

Instrument: voa6.i

Sample Info: HS23031294-01;HS23031294-01;;;

Purge Volume: 5.0

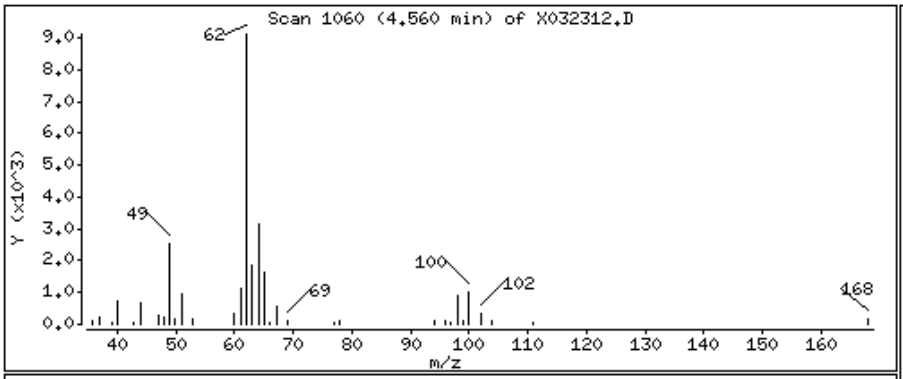
Operator: PC

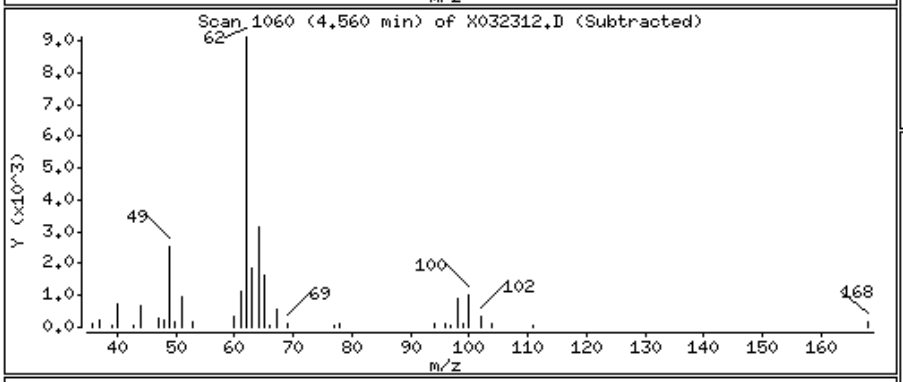
Column phase: DB624

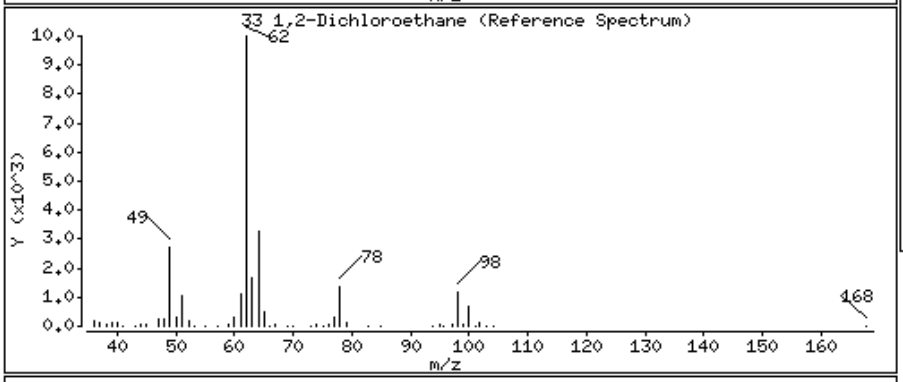
Column diameter: 0.18

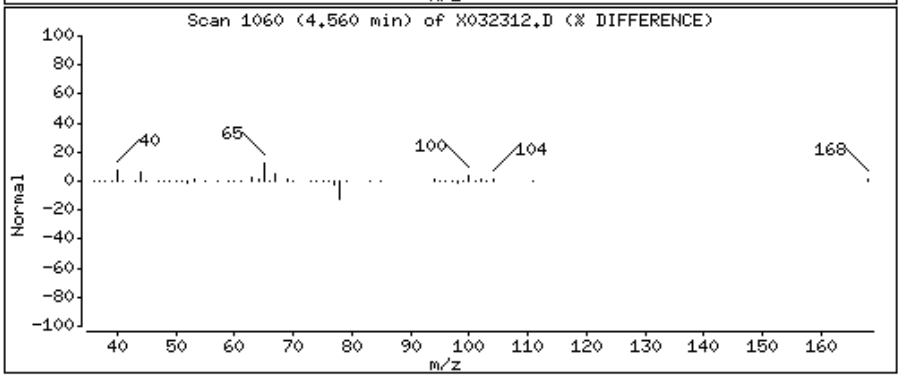
33 1,2-Dichloroethane

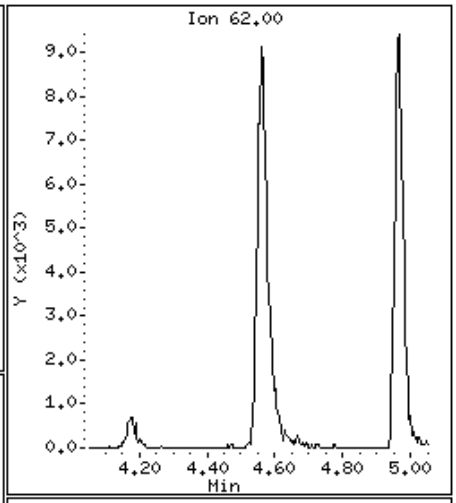
Concentration: 18.88 ug/l

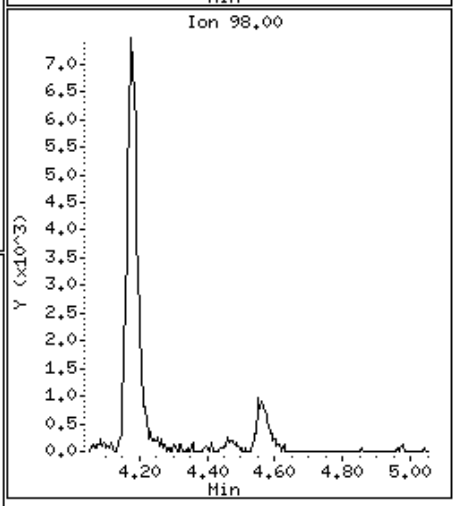












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032312.D

Date : 23-MAR-2023 14:18

Client ID: HS23031294-01

Instrument: voa6.i

Sample Info: HS23031294-01;HS23031294-01;;;

Purge Volume: 5.0

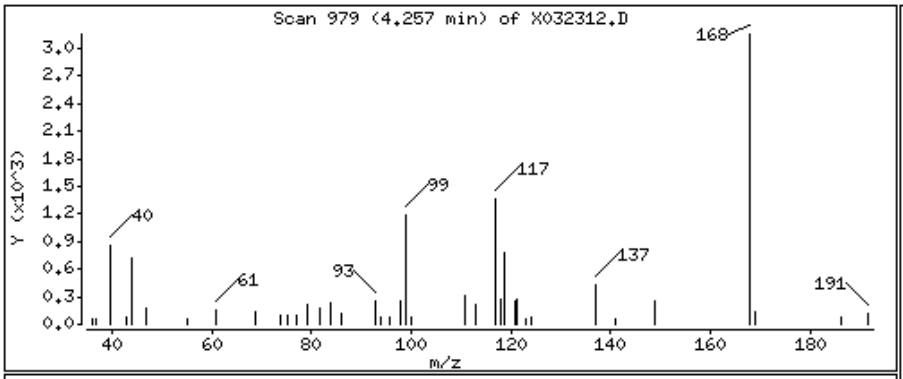
Operator: PC

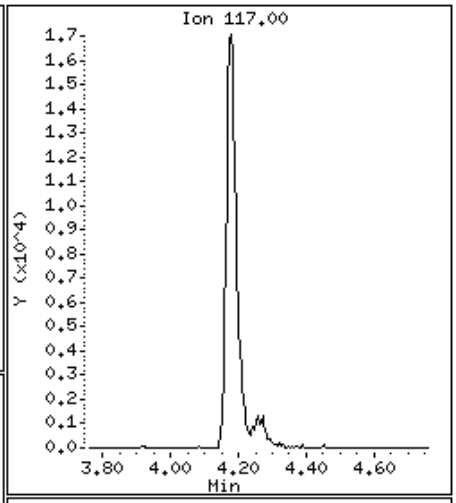
Column phase: DB624

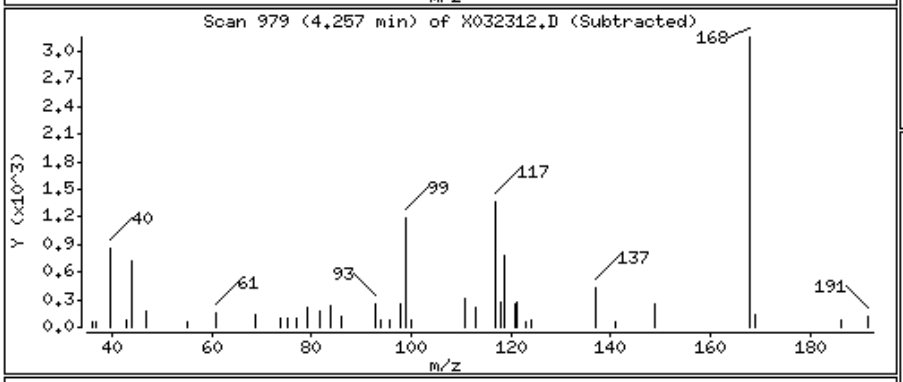
Column diameter: 0.18

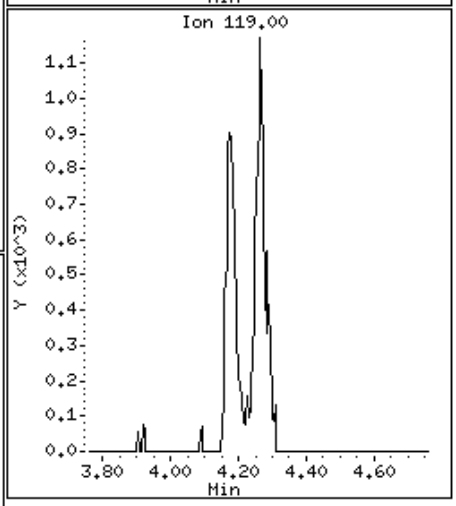
34 Carbon Tetrachloride

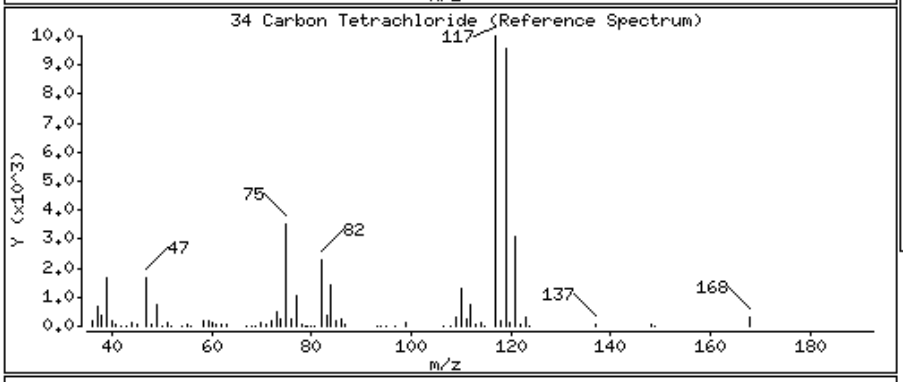
Concentration: 3.63 ug/l

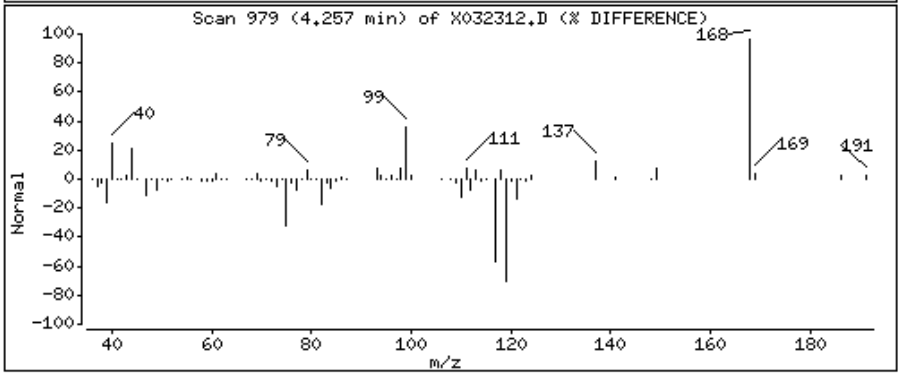












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032312.D

Date : 23-MAR-2023 14:18

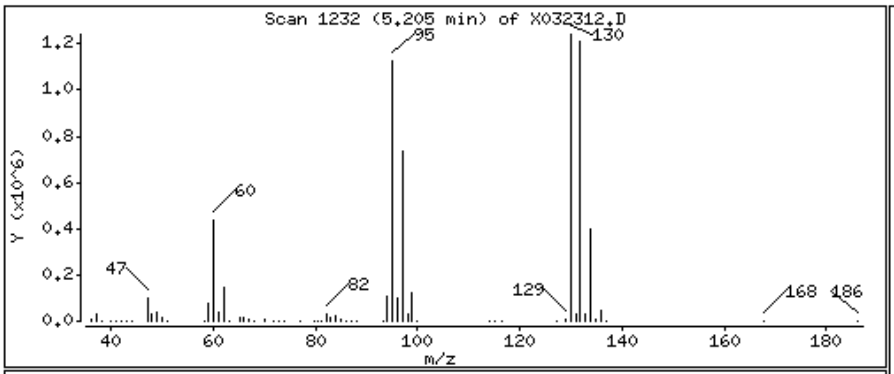
Client ID: HS23031294-01 Instrument: voa6.i

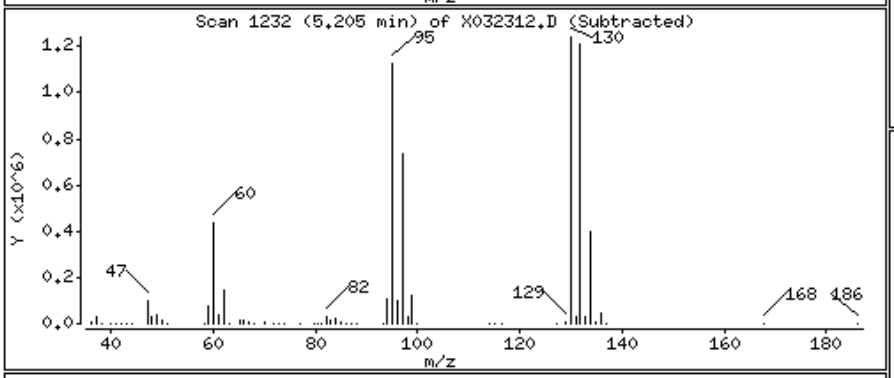
Sample Info: HS23031294-01;HS23031294-01;;;

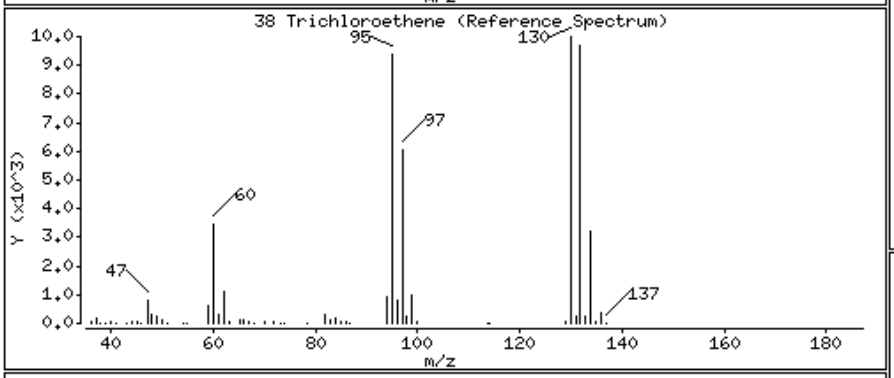
Purge Volume: 5.0 Operator: PC

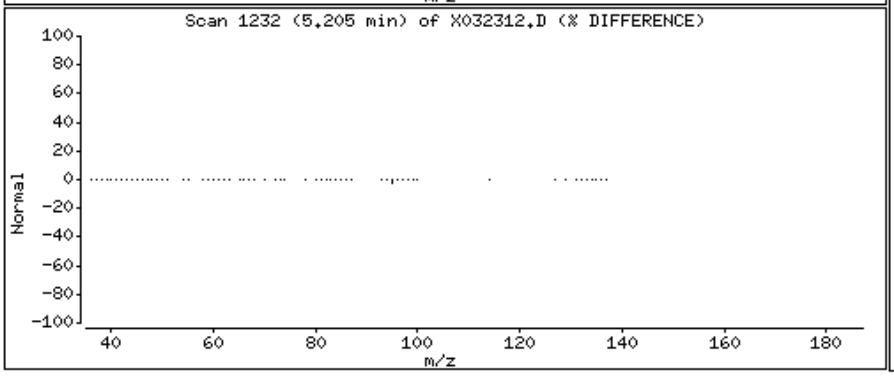
Column phase: DB624 Column diameter: 0.18

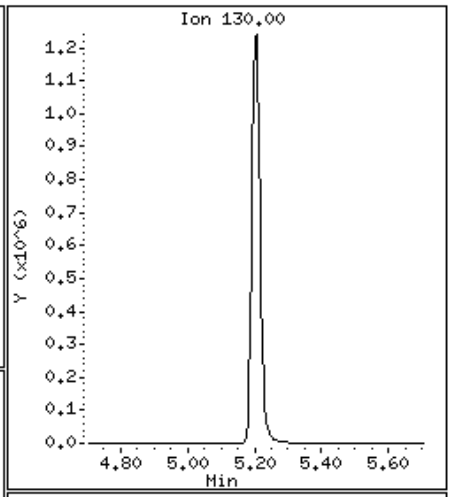
38 Trichloroethene Concentration: 2641.74 ug/l

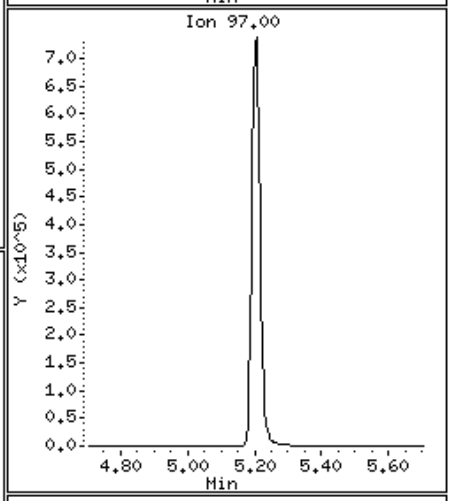


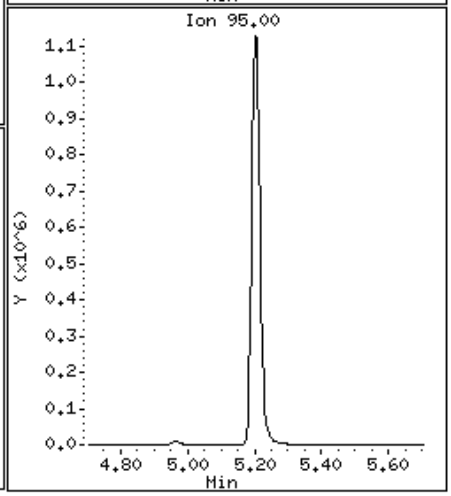












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032312.D

Date : 23-MAR-2023 14:18

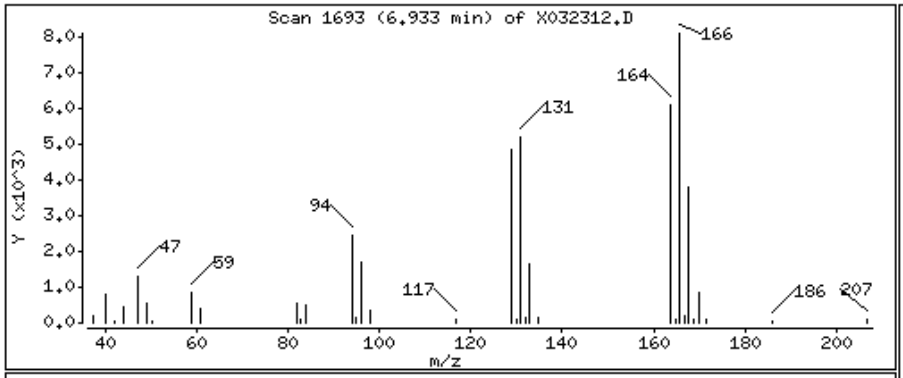
Client ID: HS23031294-01 Instrument: voa6.i

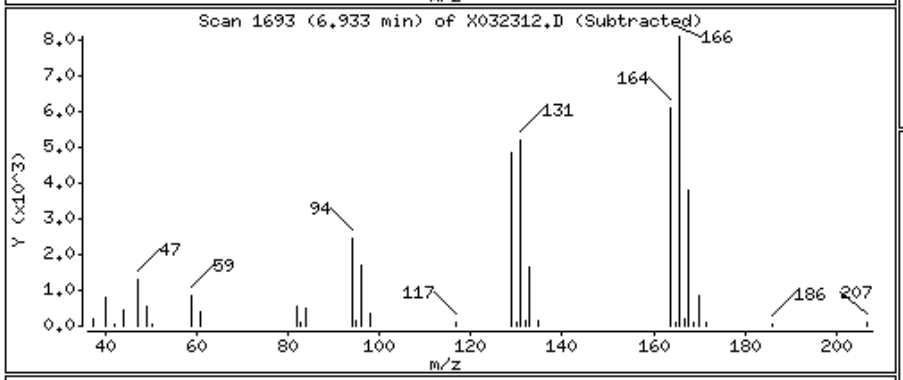
Sample Info: HS23031294-01;HS23031294-01;;;

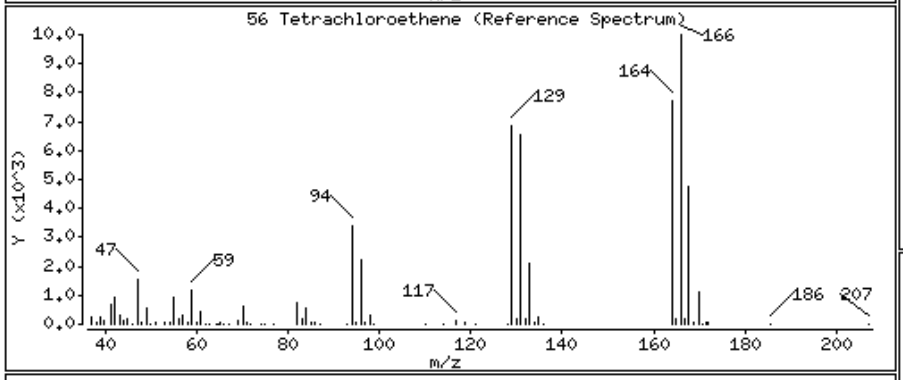
Purge Volume: 5.0 Operator: PC

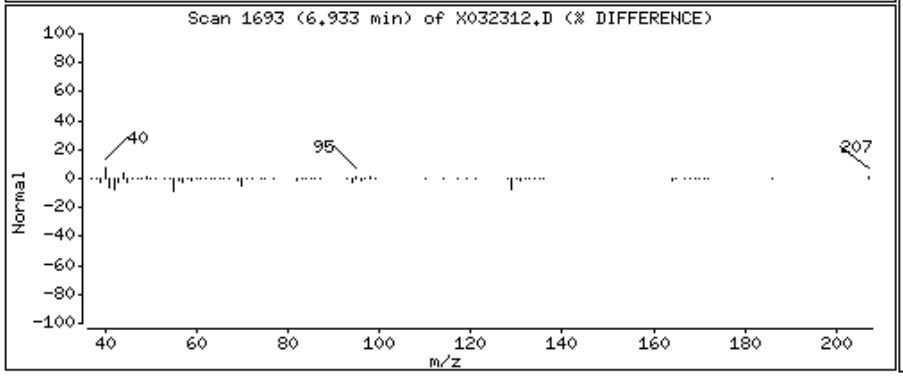
Column phase: DB624 Column diameter: 0.18

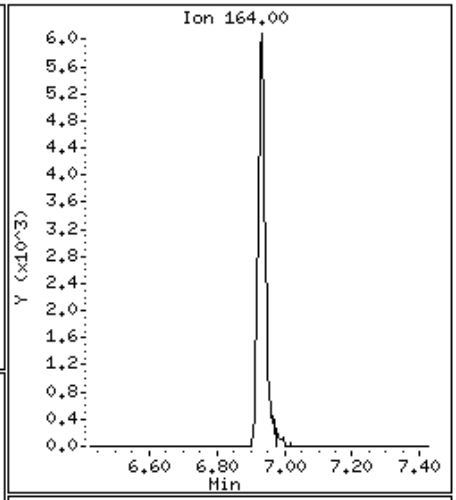
56 Tetrachloroethene Concentration: 16.41 ug/l

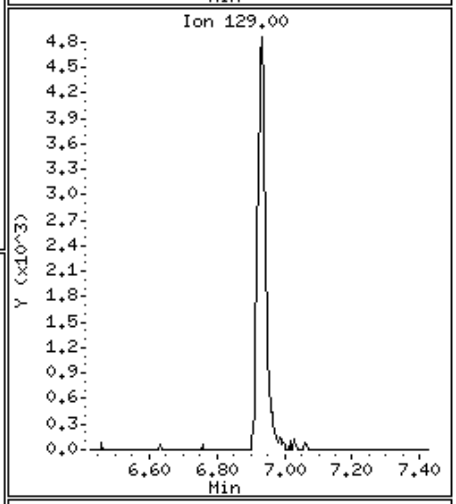


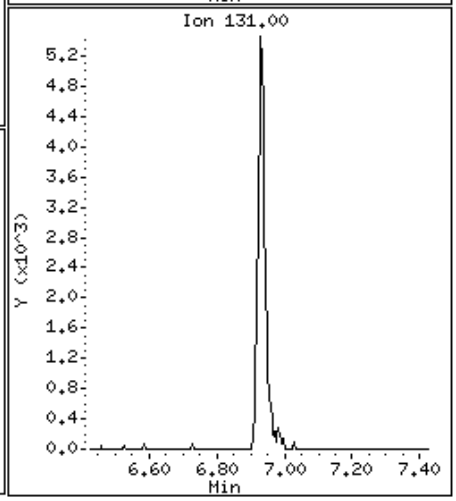












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Date : 23-MAR-2023 14:18

Client ID: HS23031294-01

Instrument: voa6.i

Sample Info: HS23031294-01;HS23031294-01;;;

Purge Volume: 5.0

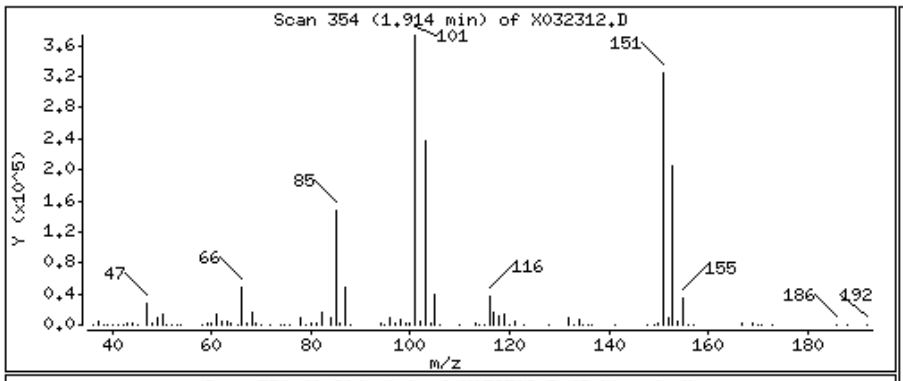
Operator: PC

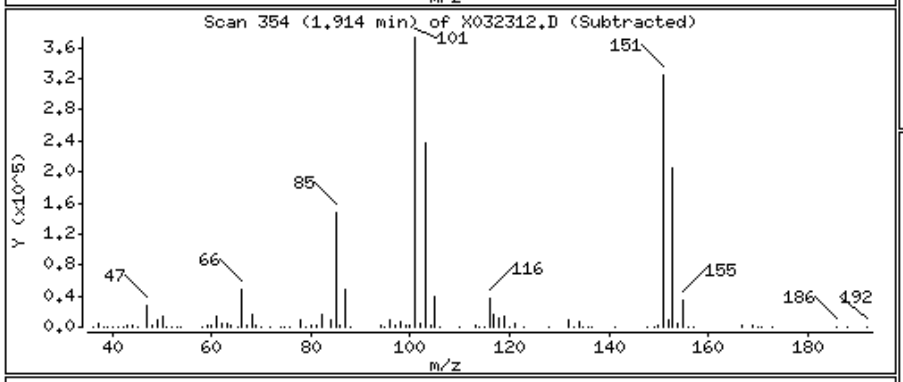
Column phase: DB624

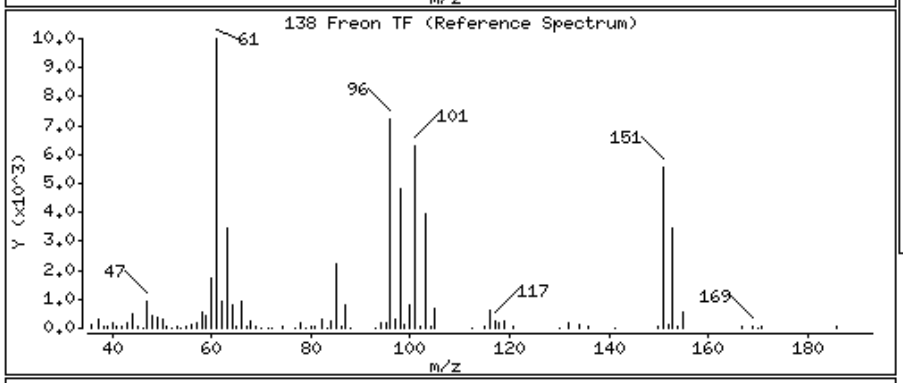
Column diameter: 0.18

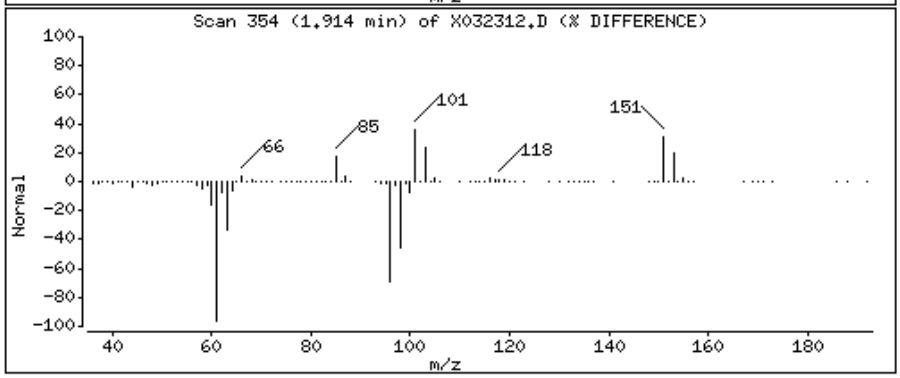
138 Freon TF

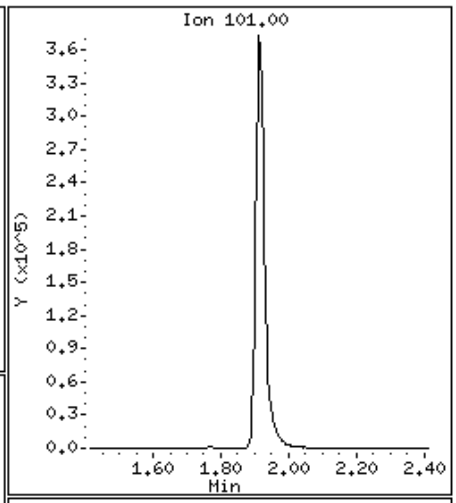
Concentration: 1118.13 ug/l

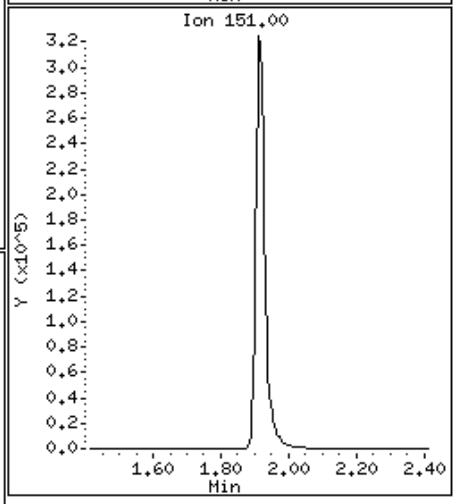












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Inj Date : 23-MAR-2023 14:18
InstruID : voa6.i
LabSampID : HS23031294-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032313.D Page 1
Report Date: 04-Apr-2023 11:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032313.D
Lab Smp Id: HS23031294-01 Client Smp ID: HS23031294-01
Inj Date : 23-MAR-2023 14:39
Operator : PC Inst ID: voa6.i
Smp Info : HS23031294-01;HS23031294-01;;;
Misc Info : V6;WATER;0;50;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\8260W.m
Meth Date : 04-Apr-2023 11:52 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 13
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.177	4.178	(1.000)	441107	50.0000	
	5 Vinyl Chloride	62	1.145	1.141	(0.274)	7525	2.16588	108.29(a)
	17 Methylene Chloride	84	2.303	2.303	(0.551)	66655	14.2601	713.00
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	107949	23.8760	1193.80
$	30 Dibromofluoromethane	113	4.099	4.095	(0.981)	179336	43.5325	43.53
$	35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	191867	40.5464	40.54(M)
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	609256	50.0000	
	38 Trichloroethene	130	5.205	5.205	(1.048)	222154	55.0544	2752.71
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	531975	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	709981	53.8366	53.83
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	248824	49.4033	49.40
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	276179	50.0000	
M	94 1,2-Dichloroethylene (total)	96				107949	23.8760	1193.80
	138 Freon TF	101	1.913	1.913	(0.458)	70814	29.9026	1495.13

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

01185480

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032313.D

Date : 23-MAR-2023 14:39

Client ID: HS23031294-01

Instrument: voa6.i

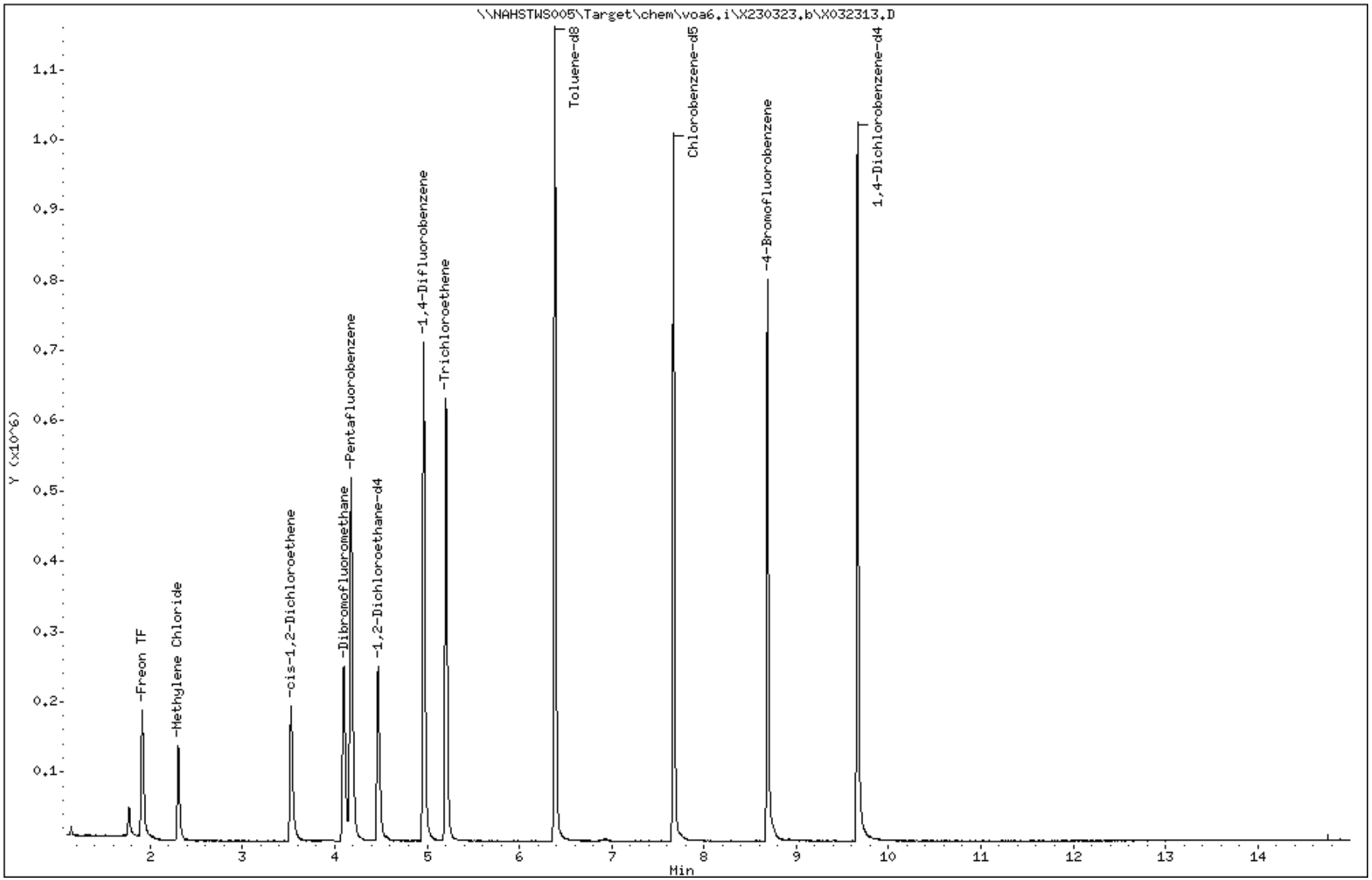
Sample Info: HS23031294-01;HS23031294-01;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032313.D

Date : 23-MAR-2023 14:39

Client ID: HS23031294-01

Instrument: voa6.i

Sample Info: HS23031294-01;HS23031294-01;;;

Purge Volume: 5.0

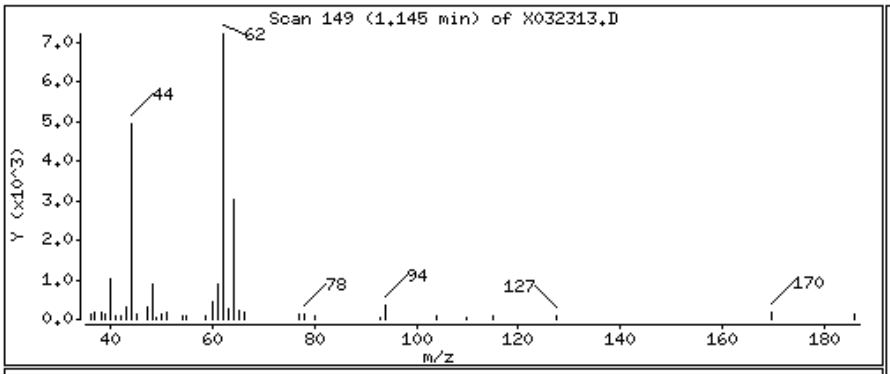
Operator: PC

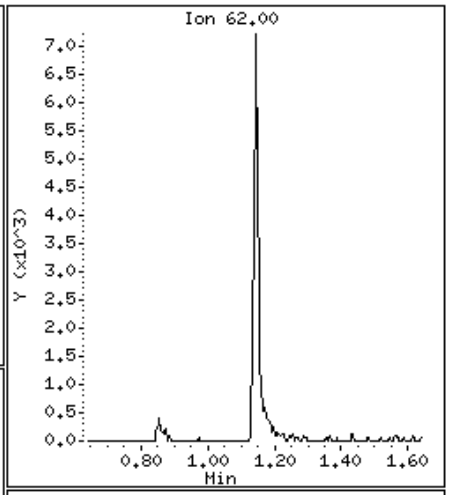
Column phase: DB624

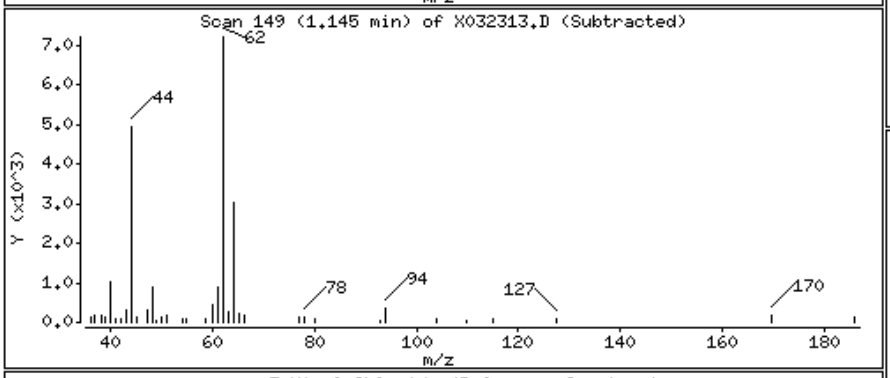
Column diameter: 0.18

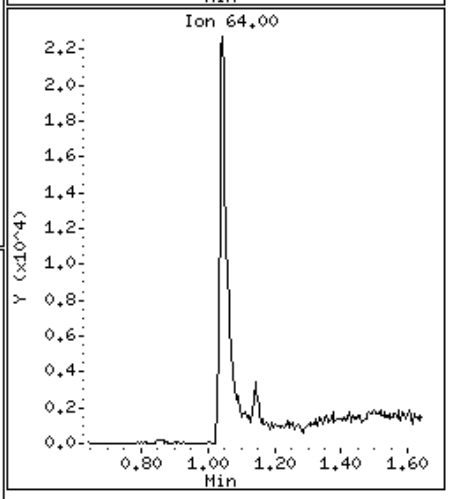
5 Vinyl Chloride

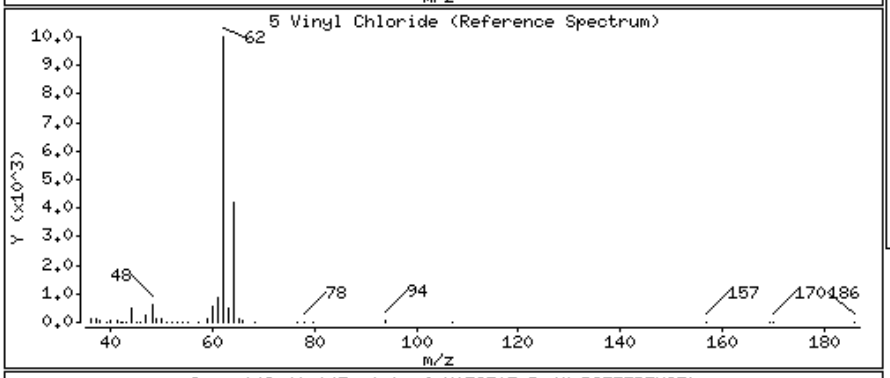
Concentration: 108.29 ug/l

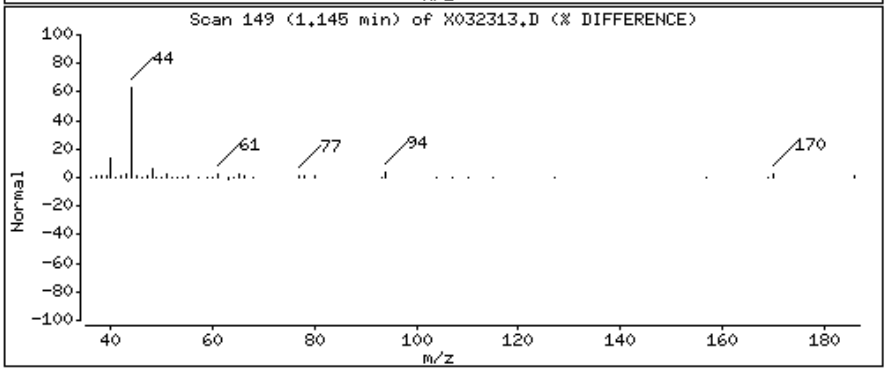












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032313.D

Date : 23-MAR-2023 14:39

Client ID: HS23031294-01

Instrument: voa6.i

Sample Info: HS23031294-01;HS23031294-01;;;

Purge Volume: 5.0

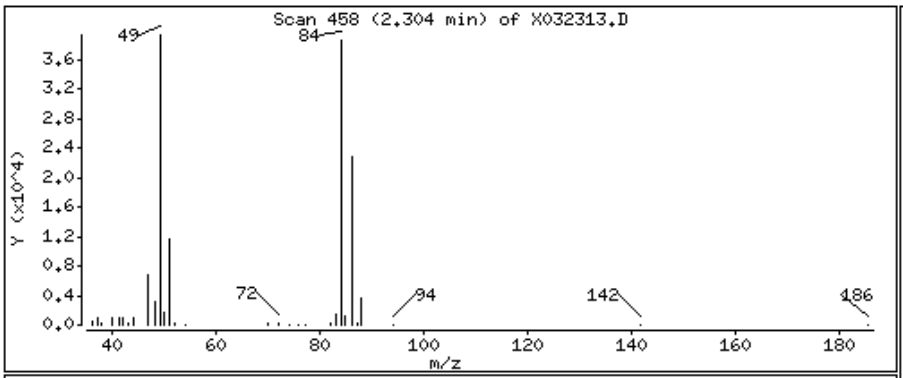
Operator: PC

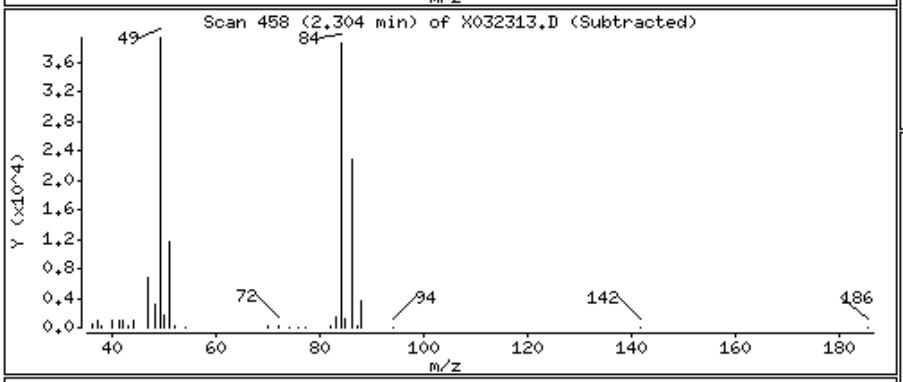
Column phase: DB624

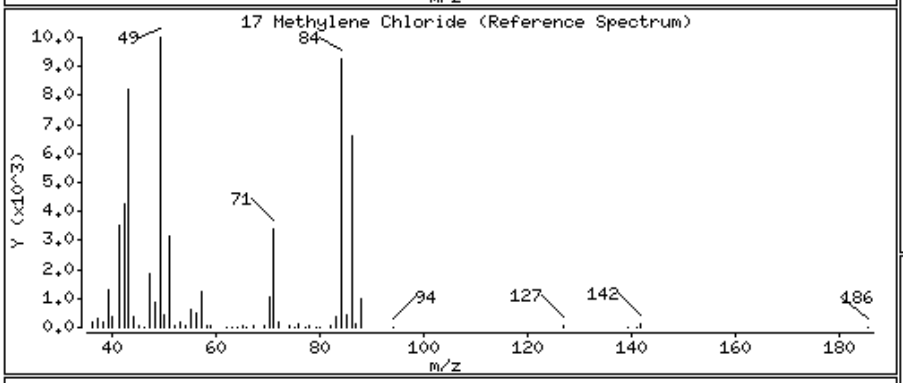
Column diameter: 0.18

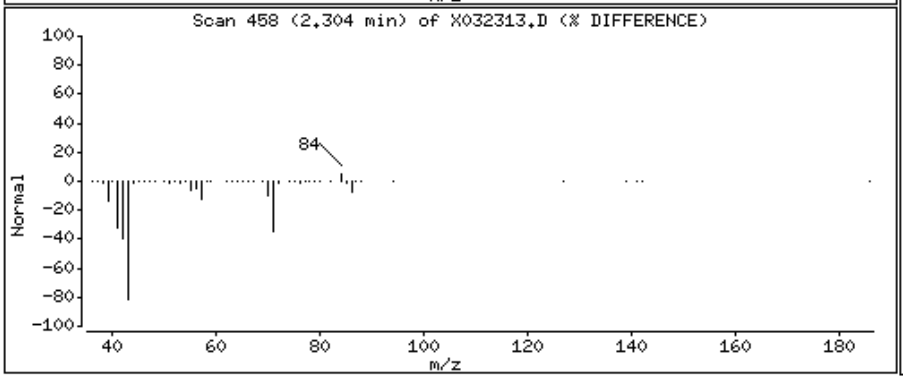
17 Methylene Chloride

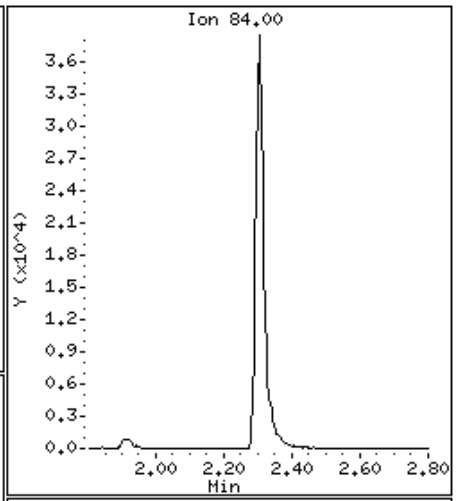
Concentration: 713.00 ug/l

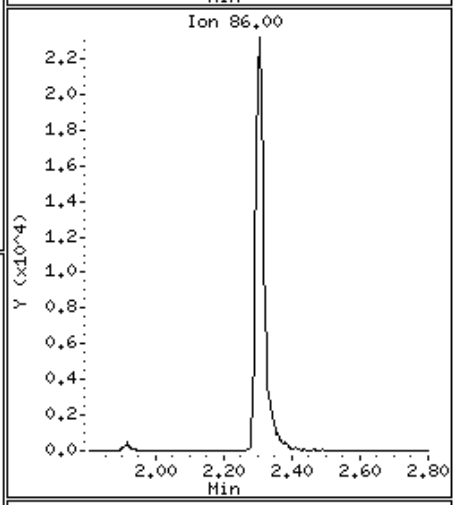


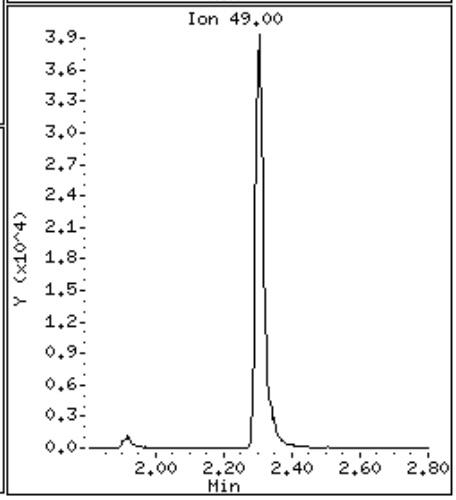












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032313.D

Date : 23-MAR-2023 14:39

Client ID: HS23031294-01

Instrument: voa6.i

Sample Info: HS23031294-01;HS23031294-01;;;

Purge Volume: 5.0

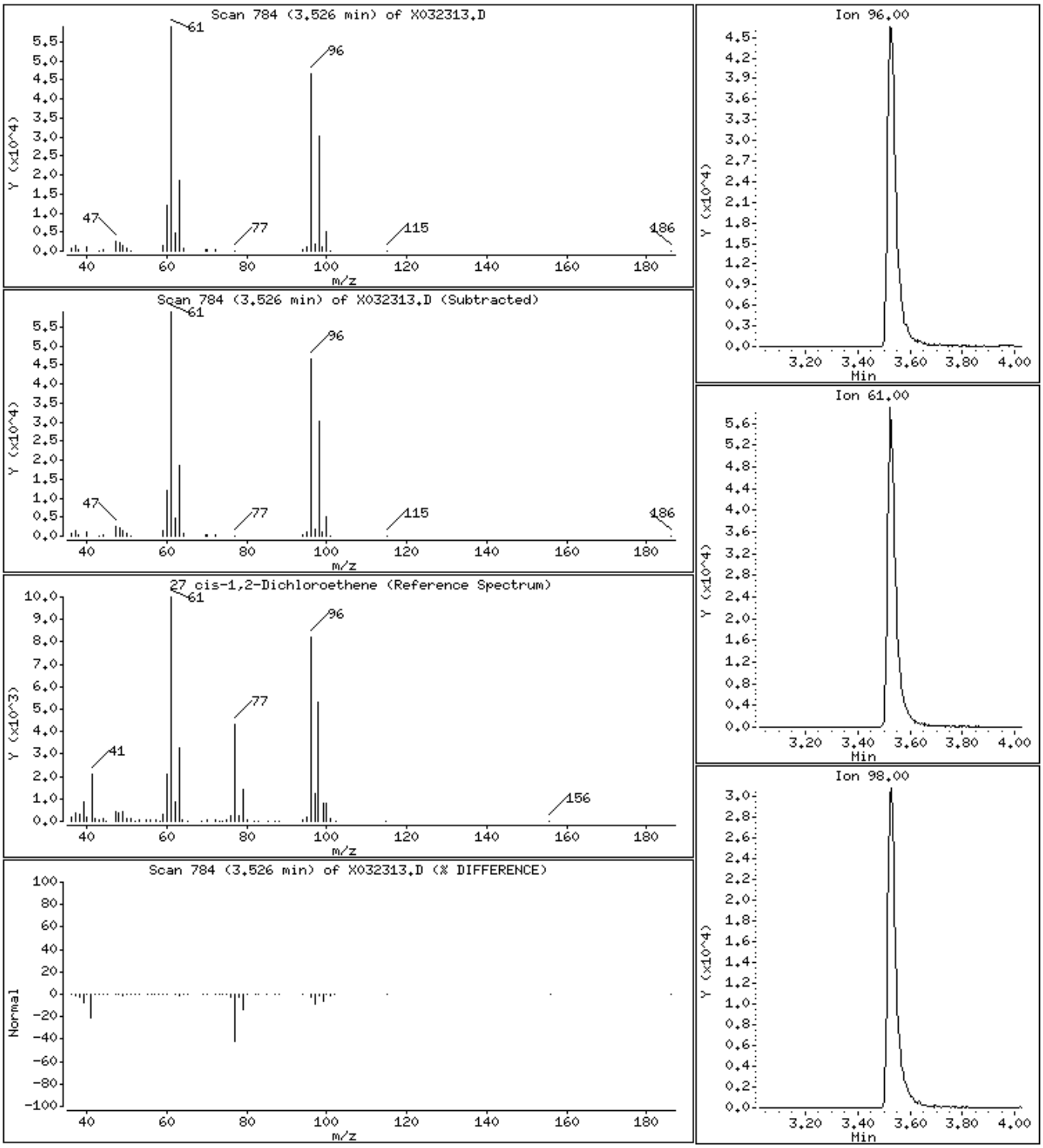
Operator: PC

Column phase: DB624

Column diameter: 0.18

27 cis-1,2-Dichloroethene

Concentration: 1193.80 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032313.D Page 5

Date : 23-MAR-2023 14:39

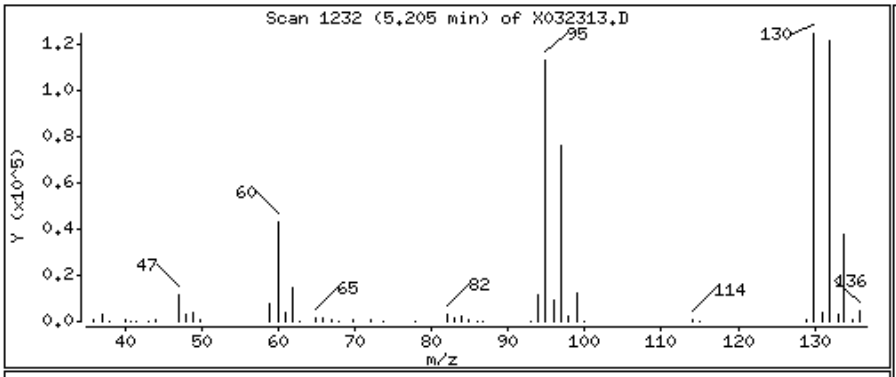
Client ID: HS23031294-01 Instrument: voa6.i

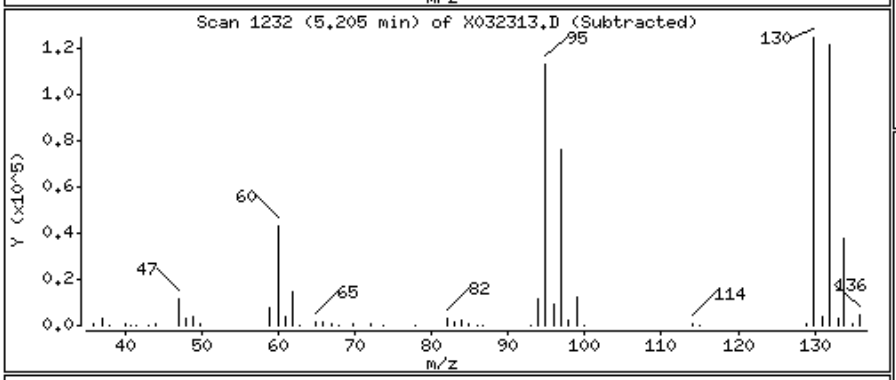
Sample Info: HS23031294-01;HS23031294-01;;;

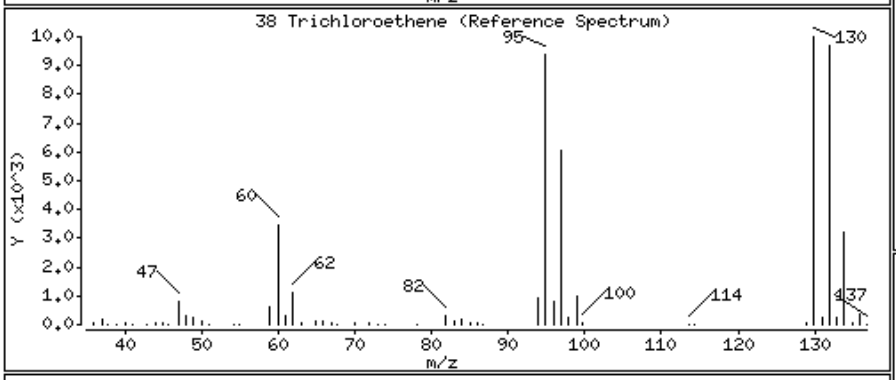
Purge Volume: 5.0 Operator: PC

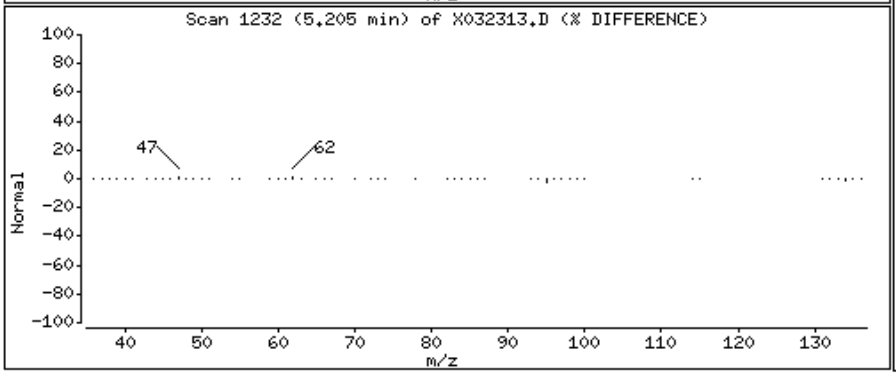
Column phase: DB624 Column diameter: 0.18

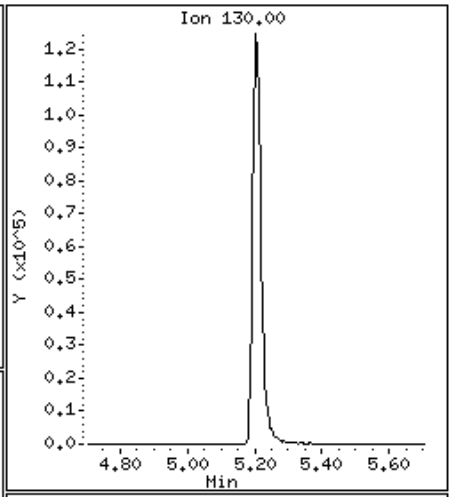
38 Trichloroethene Concentration: 2752.71 ug/l

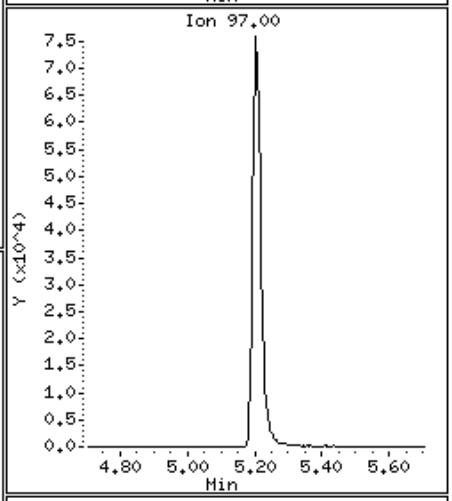


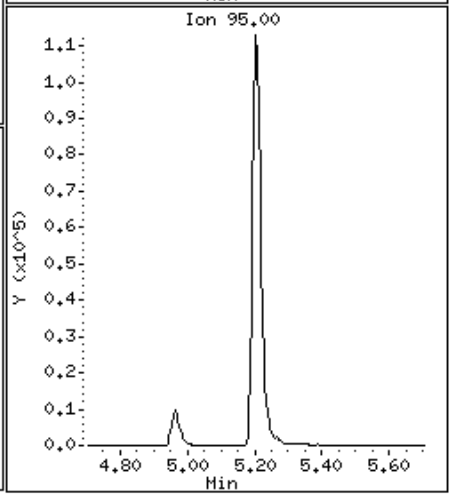












Data File: \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032313.D Page 6

Date : 23-MAR-2023 14:39

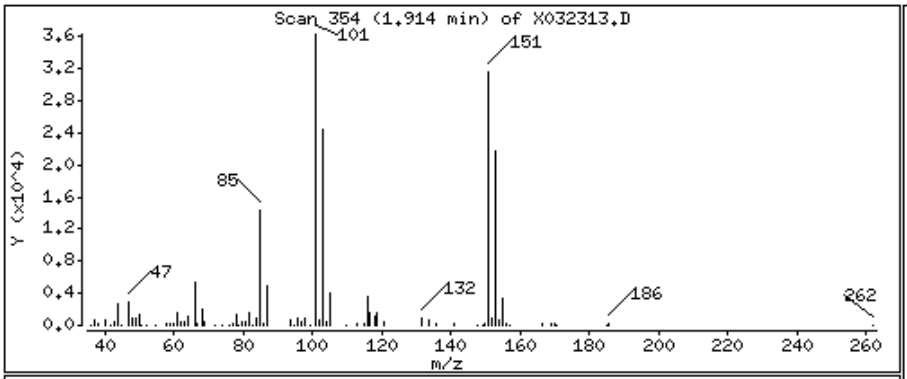
Client ID: HS23031294-01 Instrument: voa6.i

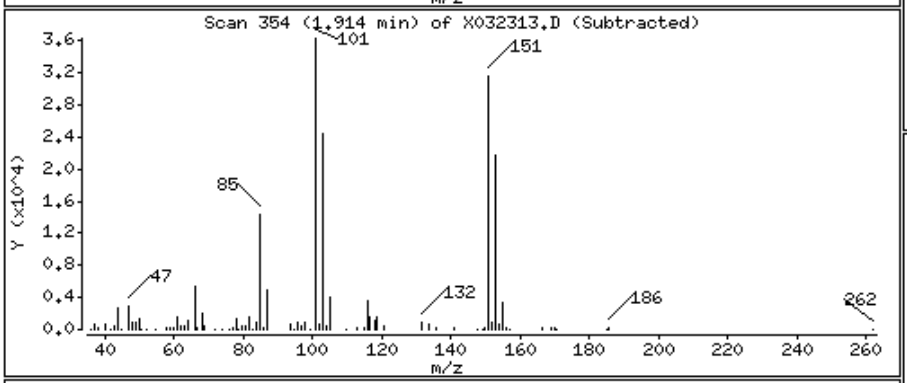
Sample Info: HS23031294-01;HS23031294-01;;;

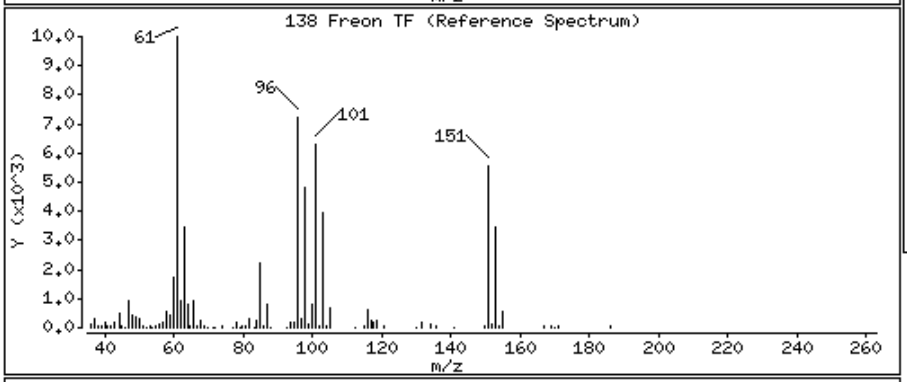
Purge Volume: 5.0 Operator: PC

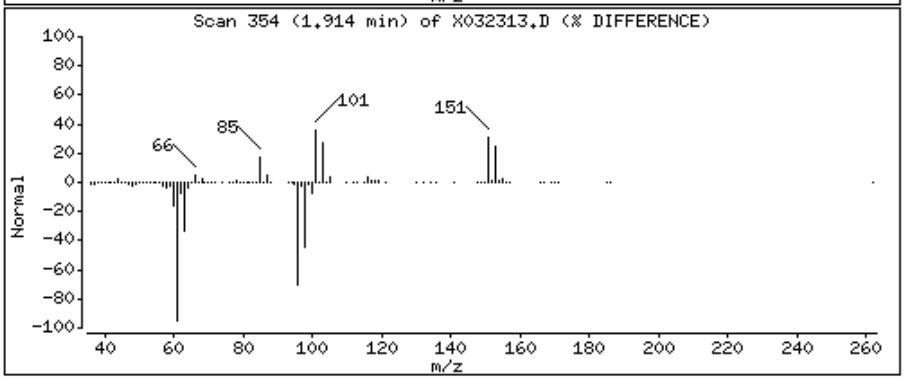
Column phase: DB624 Column diameter: 0.18

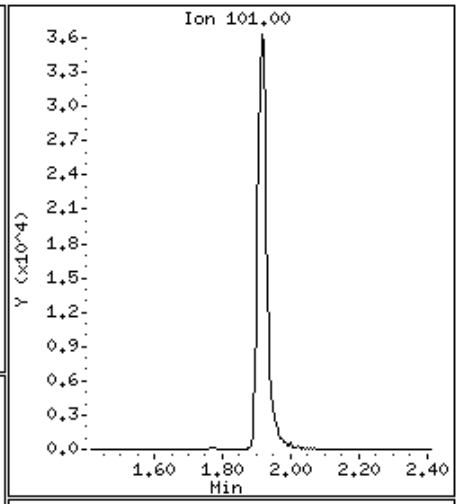
138 Freon TF Concentration: 1495.13 ug/l

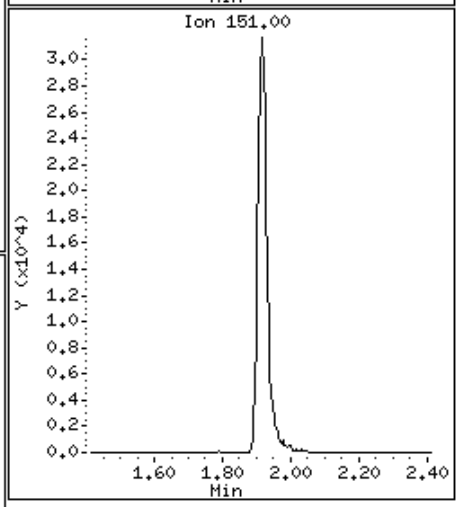












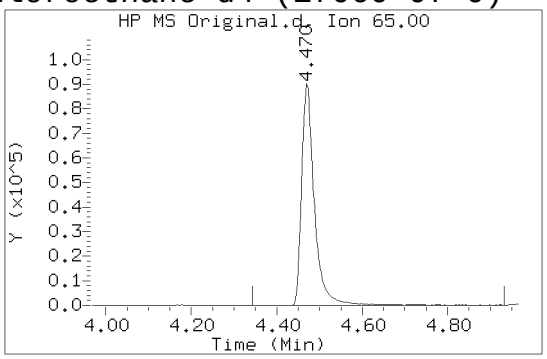
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032313.D
Inj Date : 23-MAR-2023 14:39
InstruID : voa6.i
LabSampID : HS23031294-01

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

BEFORE

MASS
65
AREA
191867
HEIGHT
90216
04-Apr-2023
11:52
linh
pham



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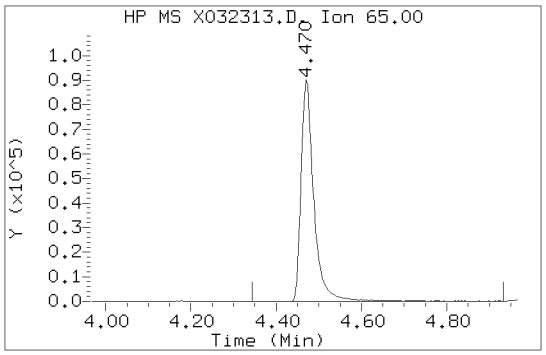

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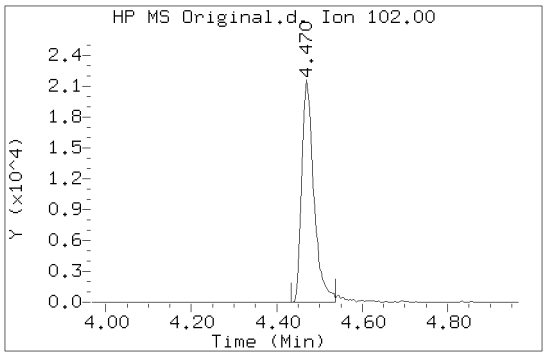

AFTER

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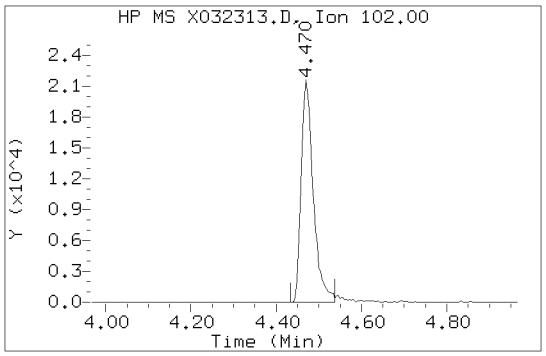


ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032314.D
Lab Smp Id: HS23031291-01MS Client Smp ID: HS23031291-01MS
Inj Date : 23-MAR-2023 15:00
Operator : PC Inst ID: voa6.i
Smp Info : HS23031291-01MS;HS23031291-01MS;3;;MS
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\8260W.m
Meth Date : 04-Apr-2023 11:52 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 14 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	444118	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	16676	282.978	282.97(a)
140 1,3-Butadiene	54	1.164	1.164	(0.279)	44950	14.9243	14.92
25 Methacrylonitrile	41	3.829	3.818	(0.917)	57714	14.1000	14.09
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	159938	263.956	263.95
13 Acetonitrile	39	2.198	2.198	(0.526)	56227	136.031	136.03
14 Allyl Chloride	41	2.198	2.195	(0.526)	134469	13.1526	13.15
4 Propionitrile	54	3.653	3.645	(0.874)	84742	135.419	135.41(a)
142 Tetrahydrofuran	42	3.848	3.840	(0.921)	22619	31.1889	31.18
145 alpha-Methylstyrene	118	9.261	9.257	(0.958)	117280	18.3354	18.33
156 Diisopropyl ether	45	2.997	2.997	(0.717)	179675	13.0313	13.03
182 Epichlorohydrin	57	6.097	6.093	(1.228)	14722	41.7489	41.74
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	250115	17.7769	17.77
2 Dichlorodifluoromethane	85	0.973	0.973	(0.233)	53344	18.3879	18.38
3 Chloromethane	50	1.078	1.078	(0.258)	70440	17.2426	17.24
5 Vinyl Chloride	62	1.145	1.141	(0.274)	57971	16.5724	16.57
6 Bromomethane	94	1.340	1.340	(0.321)	27359	13.6030	13.60
7 Chloroethane	64	1.404	1.404	(0.336)	34848	14.0472	14.04(M)
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	77233	18.6141	18.61
9 Acrolein	56	1.445	1.445	(0.346)	9829	40.8464	40.84

10 Acetone	43	1.973	1.970 (0.472)	27936	20.0860	20.08
11 1,1-Dichloroethene	96	1.913	1.913 (0.458)	44618	16.7297	16.72

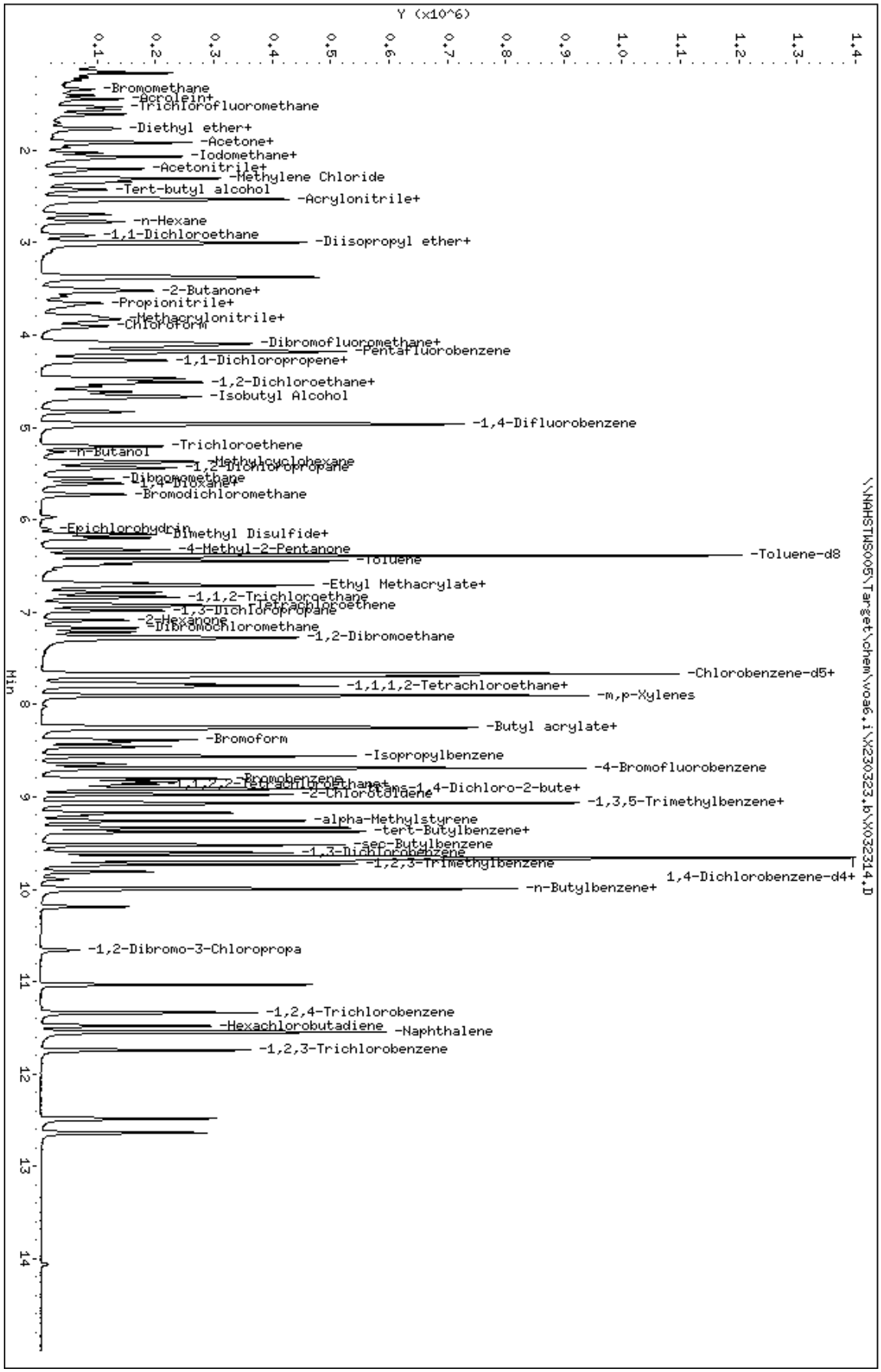
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	15 Iodomethane	142	2.026	2.026	(0.485)	105137	40.7153	40.71
	16 Acrylonitrile	53	2.536	2.532	(0.607)	39382	26.5725	26.57
	17 Methylene Chloride	84	2.303	2.303	(0.551)	65850	13.9599	13.95
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	183336	13.0555	13.05
	19 Carbon Disulfide	76	2.067	2.067	(0.495)	323653	33.0294	33.02
	20 trans-1,2-Dichloroethene	96	2.532	2.528	(0.606)	59908	15.9263	15.92
	21 Vinyl Acetate	43	2.997	2.997	(0.717)	309979	27.3478	27.34
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	101936	14.9629	14.96
	24 2-Butanone	43	3.582	3.574	(0.857)	40467	25.4483	25.44
	26 2,2-Dichloropropane	77	3.507	3.510	(0.839)	90446	16.6855	16.68
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	73123	16.0636	16.06
	28 Chloroform	83	3.900	3.900	(0.934)	107098	14.1641	14.16
	29 Bromochloromethane	128	3.795	3.792	(0.908)	35574	13.8096	13.80
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	178997	43.1489	43.14
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	94837	16.7726	16.77
	32 1,1-Dichloropropene	75	4.283	4.279	(0.863)	82510	18.7080	18.70
	33 1,2-Dichloroethane	62	4.556	4.553	(0.918)	80981	15.7594	15.75
	34 Carbon Tetrachloride	117	4.268	4.260	(0.860)	84021	19.9007	19.90
$	35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	191704	40.2453	40.24
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	618130	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	253512	16.6792	16.67
	38 Trichloroethene	130	5.205	5.205	(1.048)	75763	18.5061	18.50
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	85009	15.7561	15.75
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	65066	15.8851	15.88
	44 Dibromomethane	93	5.553	5.553	(1.119)	41698	15.9596	15.95
	45 4-Methyl-2-Pentanone	43	6.326	6.322	(0.825)	120912	35.2927	35.29
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	106563	15.6373	15.63
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	541471	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	714566	53.2340	53.23
	50 Toluene	91	6.446	6.446	(0.841)	273832	19.2754	19.27
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	90084	15.9232	15.92
	52 2-Hexanone	43	7.087	7.083	(0.924)	77713	33.0502	33.05
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	53329	17.2663	17.26
	54 1,3-Dichloropropane	76	6.982	6.978	(0.911)	110020	17.9232	17.92
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	76132	17.4488	17.44
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	63576	22.3243	22.32
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	69730	18.2650	18.26
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	57946	20.9952	20.99
	59 Chlorobenzene	112	7.694	7.694	(1.003)	187795	18.4978	18.49
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	70441	18.0053	18.00
	61 Ethylbenzene	106	7.799	7.799	(1.017)	97050	19.4243	19.42
	62 m,p-Xylenes	106	7.904	7.900	(1.031)	248171	39.4684	39.46
	63 o-Xylene	106	8.241	8.241	(1.075)	121177	19.1789	19.17
	64 Styrene	104	8.260	8.256	(1.077)	200644	19.2186	19.21
	66 Bromoform	173	8.410	8.410	(1.097)	54942	18.2111	18.21
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	299481	20.6954	20.69
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	89785	17.5633	17.56
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	254354	49.6164	49.61
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	293386	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	66450	17.2959	17.29(M)
	73 n-Propylbenzene	91	8.912	8.908	(0.922)	342998	21.0350	21.03
	74 Bromobenzene	156	8.803	8.803	(0.911)	88084	18.6743	18.67

75	1,3,5-Trimethylbenzene	105	9.066	9.066 (0.938)	259249	20.4980	20.49
76	2-Chlorotoluene	91	8.972	8.972 (0.929)	213681	19.4907	19.49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	239551	19.3862	19.38
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	220786	21.9176	21.91
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	262603	20.2455	20.24
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	298123	21.8351	21.83
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	266138	21.8448	21.84
	83 1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	155113	19.0135	19.01
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	163367	18.6321	18.63
	87 n-Butylbenzene	91	9.996	9.992	(1.035)	219328	22.3367	22.33
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	155700	19.0815	19.08
	89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	16848	18.8445	18.84
	90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	114460	19.1869	19.18
	91 Hexachlorobutadiene	225	11.480	11.476	(1.188)	52785	24.3152	24.31
	92 Naphthalene	128	11.544	11.540	(1.195)	270118	18.8658	18.86
	93 1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	106874	18.7220	18.72
M	94 1,2-Dichloroethylene (total)	96				133031	31.9898	31.98
M	95 Xylenes (total)	106				369348	58.6473	58.64
	141 Cyclohexane	56	4.125	4.121	(0.987)	99096	22.3518	22.35
	138 Freon TF	101	1.913	1.913	(0.458)	50429	21.6448	21.64
	147 Methylcyclohexane	55	5.381	5.377	(1.084)	157838	18.4936	18.49
	146 Methyl Acetate	43	2.232	2.228	(0.534)	33970	13.3075	13.30
	148 Tert-Butyl alcohol	59	2.427	2.423	(0.581)	132075	283.975	283.97
	149 Isopropyl Alcohol	45	2.093	2.090	(0.501)	69223	278.537	278.53

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: HS230312Y1-01MS;HS230312Y1-01MS;3;;MS
Purge Volume: 5.0
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Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 23-MAR-2023 15:00
InstruID : voa6.i
LabSampID : HS23031291-01MS

Chloroethane (75-00-3)

Reason Code:

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HEIGHT
27533
04-Apr-2023
11:52
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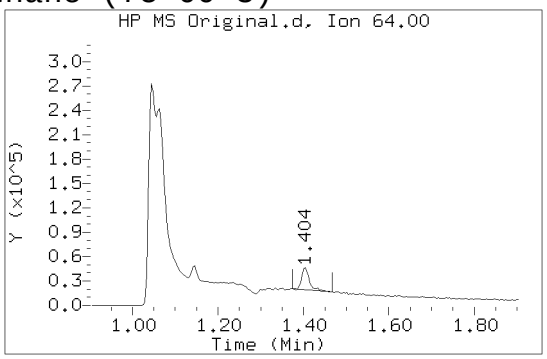
pham



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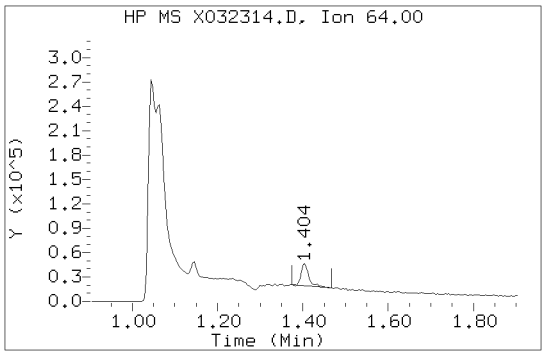

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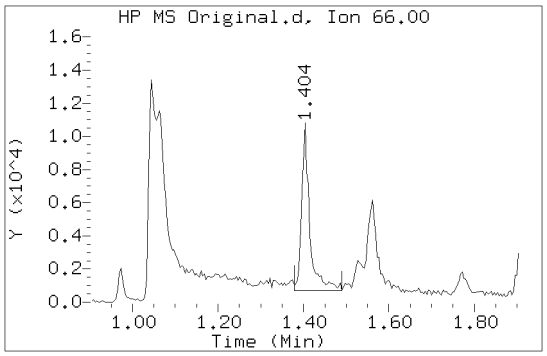

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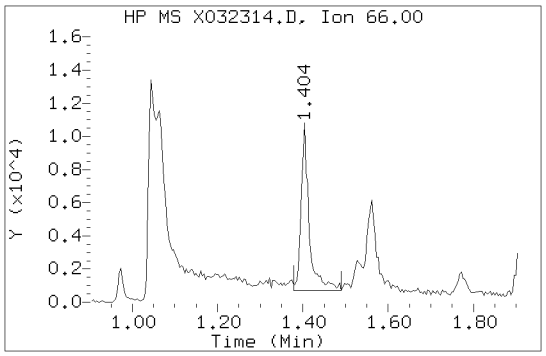

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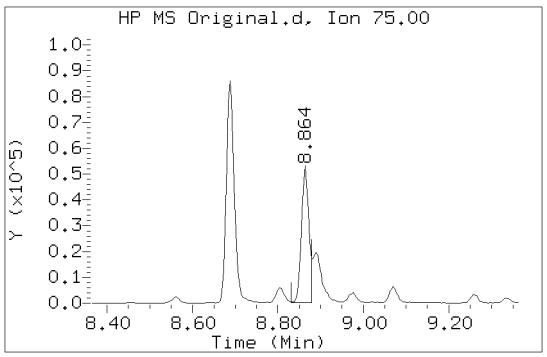

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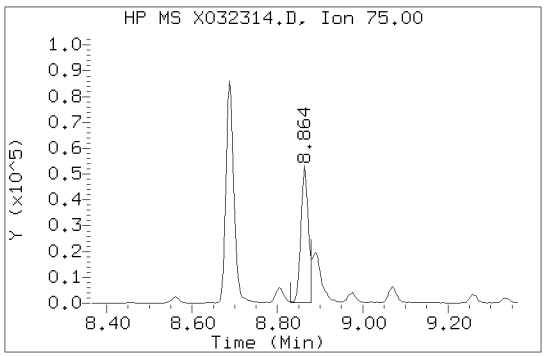

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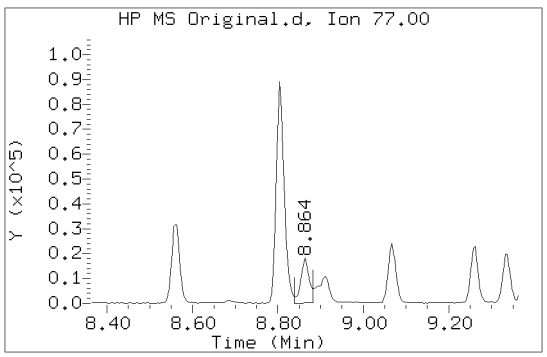

AFTER
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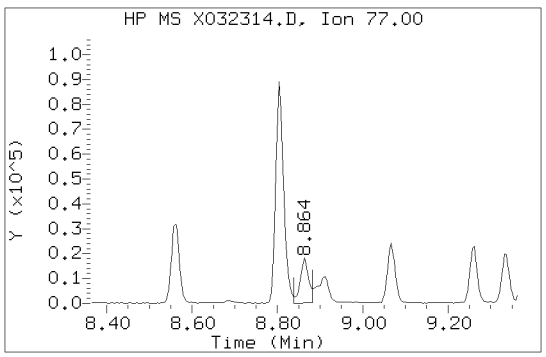

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Report Date: 04-Apr-2023 11:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032315.D
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Operator : PC Inst ID: voa6.i
Smp Info : HS23031291-01MSD;HS23031291-01MSD;3;;MSD
Misc Info : V6;WATER;0;1;
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Als bottle: 14 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	465682	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	17203	278.403	278.40(a)
140 1,3-Butadiene	54	1.164	1.164	(0.279)	58468	18.5136	18.51
25 Methacrylonitrile	41	3.825	3.818	(0.916)	63553	14.8075	14.80
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	185054	291.264	291.26
13 Acetonitrile	39	2.198	2.198	(0.526)	68348	157.699	157.69
14 Allyl Chloride	41	2.198	2.195	(0.526)	157456	14.6878	14.68
4 Propionitrile	54	3.649	3.645	(0.873)	90917	138.559	138.55(a)
142 Tetrahydrofuran	42	3.851	3.840	(0.922)	25549	33.5977	33.59
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	142415	20.6470	20.64
156 Diisopropyl ether	45	3.000	2.997	(0.718)	228617	15.8131	15.81
182 Epichlorohydrin	57	6.097	6.093	(1.228)	13815	37.4692	37.46
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	308378	20.3251	20.32
2 Dichlorodifluoromethane	85	0.972	0.973	(0.233)	58715	19.2609	19.26
3 Chloromethane	50	1.077	1.078	(0.258)	88937	20.7623	20.76
5 Vinyl Chloride	62	1.145	1.141	(0.274)	67479	18.3972	18.39
6 Bromomethane	94	1.340	1.340	(0.321)	32249	15.2918	15.29
7 Chloroethane	64	1.404	1.404	(0.336)	38155	14.6680	14.66(M)
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	88367	20.3113	20.31
9 Acrolein	56	1.445	1.445	(0.346)	9842	39.1469	39.14

10 Acetone	43	1.973	1.970 (0.472)	30297	20.9533	20.95
11 1,1-Dichloroethene	96	1.913	1.913 (0.458)	55199	19.7387	19.73

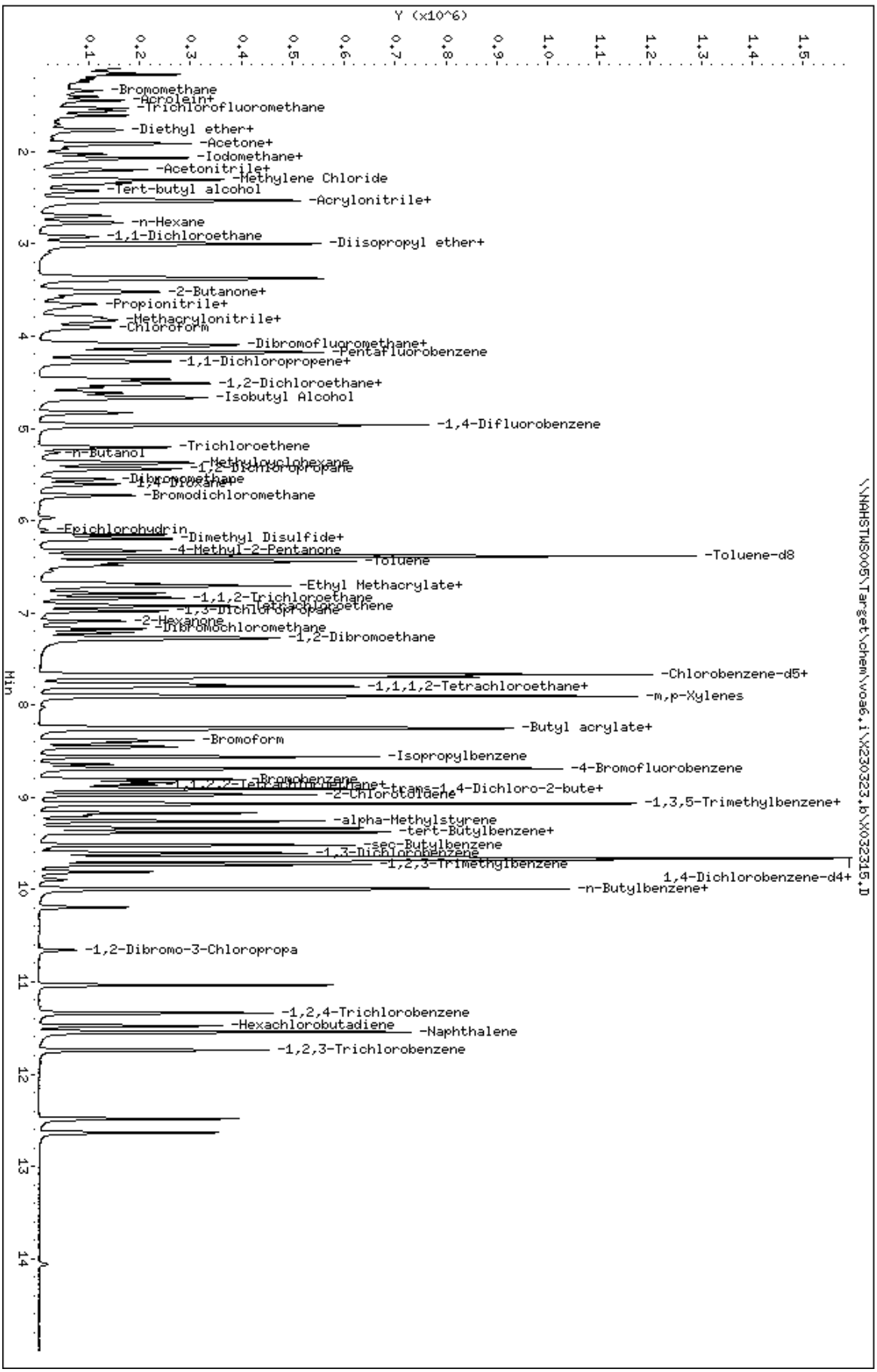
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	15 Iodomethane	142	2.026	2.026	(0.485)	132477	46.9367	46.93
	16 Acrylonitrile	53	2.536	2.532	(0.607)	43864	28.2262	28.22
	17 Methylene Chloride	84	2.303	2.303	(0.551)	82064	16.9177	16.91
	18 Methyl tert-butyl ether	73	2.536	2.532	(0.607)	222155	15.0873	15.08
	19 Carbon Disulfide	76	2.071	2.067	(0.496)	386885	37.6540	37.65
	20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	71792	18.2018	18.20
	21 Vinyl Acetate	43	2.997	2.997	(0.717)	378689	31.8627	31.86
	22 1,1-Dichloroethane	63	2.918	2.922	(0.699)	124980	17.4959	17.49
	24 2-Butanone	43	3.581	3.574	(0.857)	45359	27.2039	27.20
	26 2,2-Dichloropropane	77	3.507	3.510	(0.839)	107374	18.9246	18.92
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	88048	18.4466	18.44
	28 Chloroform	83	3.900	3.900	(0.934)	133588	16.8494	16.84
	29 Bromochloromethane	128	3.791	3.792	(0.908)	43456	16.0882	16.08
$	30 Dibromofluoromethane	113	4.099	4.095	(0.981)	185957	42.7438	42.74
	31 1,1,1-Trichloroethane	97	4.076	4.076	(0.976)	111194	18.7548	18.75
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	98233	21.3021	21.30
	33 1,2-Dichloroethane	62	4.552	4.553	(0.917)	101083	18.8139	18.81
	34 Carbon Tetrachloride	117	4.264	4.260	(0.859)	98364	22.2824	22.28
$	35 1,2-Dichloroethane-d4	65	4.470	4.466	(1.070)	199553	39.9608	39.96
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	646301	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	311857	19.6235	19.62
	38 Trichloroethene	130	5.205	5.205	(1.048)	88686	20.7185	20.71
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	106010	18.7921	18.79
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	80681	18.8387	18.83
	44 Dibromomethane	93	5.553	5.553	(1.119)	50494	18.4838	18.48
	45 4-Methyl-2-Pentanone	43	6.325	6.322	(0.825)	134180	36.7530	36.75
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	135209	18.9761	18.97
*	47 Chlorobenzene-d5	117	7.667	7.668	(1.000)	577013	50.0000	
$	48 Toluene-d8	98	6.385	6.386	(0.833)	754474	52.7449	52.74
	50 Toluene	91	6.445	6.446	(0.841)	334653	22.1056	22.10
	51 trans-1,3-Dichloropropene	75	6.682	6.678	(1.346)	111803	18.9008	18.90
	52 2-Hexanone	43	7.086	7.083	(0.924)	88881	35.4715	35.47
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	64608	19.6296	19.62
	54 1,3-Dichloropropane	76	6.981	6.978	(0.911)	130101	19.8891	19.88
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	92277	19.8463	19.84
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	75843	24.9913	24.99
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	82138	20.1898	20.18
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	67692	23.1948	23.19
	59 Chlorobenzene	112	7.694	7.694	(1.003)	231982	21.4428	21.44
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.773	(1.014)	84668	20.3088	20.30
	61 Ethylbenzene	106	7.799	7.799	(1.017)	118207	22.2015	22.20
	62 m,p-Xylenes	106	7.904	7.900	(1.031)	299950	44.7648	44.76
	63 o-Xylene	106	8.241	8.241	(1.075)	145325	21.5840	21.58
	64 Styrene	104	8.260	8.256	(1.077)	246272	22.1361	22.13
	66 Bromoform	173	8.410	8.410	(1.097)	63503	19.7522	19.75
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	362337	23.4967	23.49
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	104171	18.8965	18.89
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	270932	49.5947	49.59
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	316378	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	75618	18.2518	18.25(M)
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	416755	23.7009	23.70
	74 Bromobenzene	156	8.803	8.803	(0.911)	107814	21.1961	21.19

75	1,3,5-Trimethylbenzene	105	9.066	9.066 (0.938)	315433	23.1279	23.12
76	2-Chlorotoluene	91	8.972	8.972 (0.929)	262664	22.2175	22.21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	77 4-Chlorotoluene	91	9.069	9.070	(0.939)	299502	22.4765	22.47
	78 tert-Butylbenzene	119	9.332	9.336	(0.966)	263312	24.2396	24.23
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	319987	22.8768	22.87
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	364139	24.7320	24.73
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	329903	25.1108	25.11
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	191762	21.7976	21.79
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	194887	20.6117	20.61
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	276600	26.1223	26.12
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	189769	21.5667	21.56
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	17870	18.5593	18.55
	90 1,2,4-Trichlorobenzene	180	11.337	11.338	(1.173)	143468	22.3017	22.30
	91 Hexachlorobutadiene	225	11.480	11.476	(1.188)	64408	27.1953	27.19
	92 Naphthalene	128	11.544	11.540	(1.195)	315999	20.4664	20.46
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	131337	21.3354	21.33
M	94 1,2-Dichloroethylene (total)	96				159840	36.6484	36.64
M	95 Xylenes (total)	106				445275	66.3489	66.34
	141 Cyclohexane	56	4.121	4.121	(0.987)	111155	23.7631	23.76
	138 Freon TF	101	1.913	1.913	(0.458)	57625	23.4463	23.44
	147 Methylcyclohexane	55	5.381	5.377	(1.084)	178562	20.0099	20.00
	146 Methyl Acetate	43	2.236	2.228	(0.535)	37834	14.1349	14.13
	148 Tert-Butyl alcohol	59	2.427	2.423	(0.581)	138324	283.639	283.63
	149 Isopropyl Alcohol	45	2.093	2.090	(0.501)	73788	283.157	283.15

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: HS230312Q1-01MSD;HS230312Q1-01MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032315.D
Inj Date : 23-MAR-2023 15:21
InstruID : voa6.i
LabSampID : HS23031291-01MSD

Chloroethane (75-00-3)

Reason Code:

BEFORE

MASS
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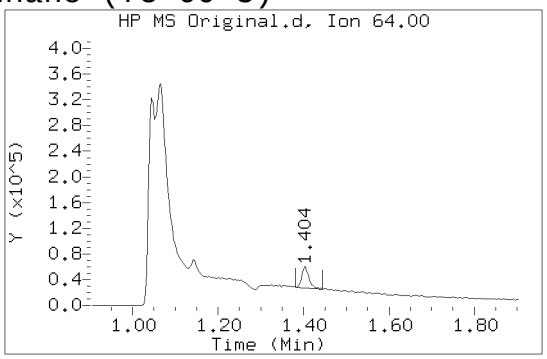
38155
HEIGHT
33100
04-Apr-2023
11:52
linh
pham



AFTER

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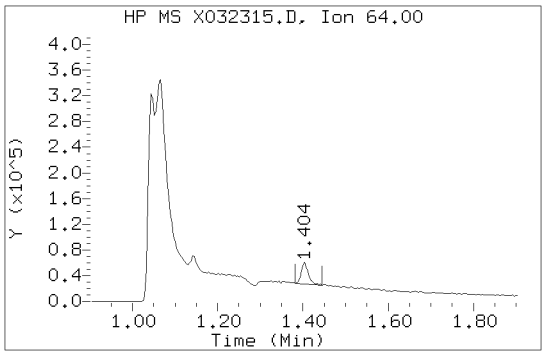

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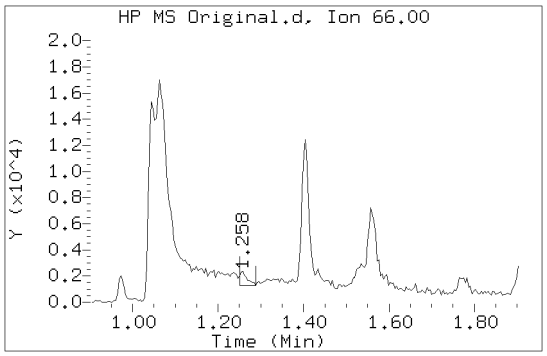

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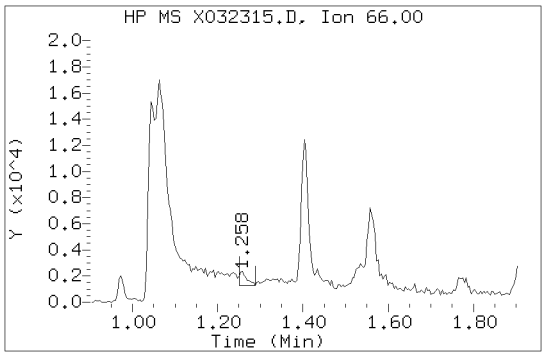

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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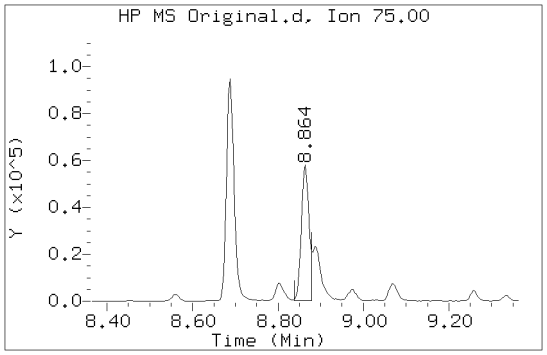

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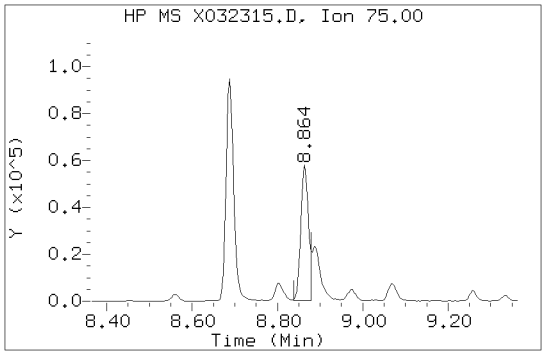

BEFORE

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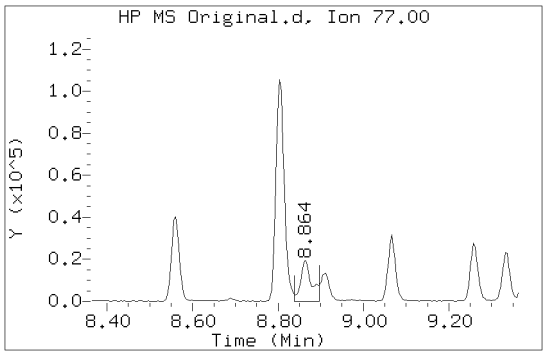

AFTER

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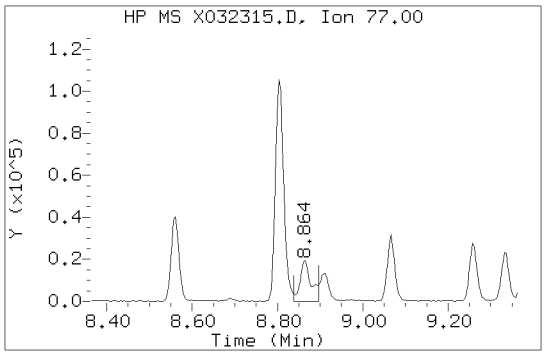

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Report Date: 04-Apr-2023 11:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032316.D
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Inj Date : 23-MAR-2023 15:42
Operator : PC Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\8260W.m
Meth Date : 04-Apr-2023 11:52 voa6.i Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 15 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.178	4.178	(1.000)	287924	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	35523	1000.00	929.80
140 1,3-Butadiene	54	1.164	1.164	(0.279)	74070	50.0000	37.93
25 Methacrylonitrile	41	3.822	3.822	(0.915)	128277	50.0000	48.33
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	376452	1000.00	958.31
13 Acetonitrile	39	2.198	2.198	(0.526)	120102	500.000	448.19
14 Allyl Chloride	41	2.198	2.198	(0.526)	293280	50.0000	44.24
4 Propionitrile	54	3.649	3.649	(0.873)	198369	500.000	488.96
142 Tetrahydrofuran	42	3.837	3.837	(0.918)	44240	100.000	94.09
145 alpha-Methylstyrene	118	9.257	9.257	(0.958)	240072	50.0000	46.62
156 Diisopropyl ether	45	3.001	3.001	(0.718)	398701	50.0000	44.60
182 Epichlorohydrin	57	6.093	6.093	(1.227)	53096	200.000	208.94
166 1,2,3-Trimethylbenzene	105	9.729	9.729	(1.007)	524574	50.0000	46.31
2 Dichlorodifluoromethane	85	0.973	0.973	(0.233)	81559	50.0000	41.82
3 Chloromethane	50	1.078	1.078	(0.258)	111153	50.0000	41.96
5 Vinyl Chloride	62	1.145	1.145	(0.274)	92572	50.0000	40.82
6 Bromomethane	94	1.340	1.340	(0.321)	59165	50.0000	45.37
7 Chloroethane	64	1.404	1.404	(0.336)	74917	50.0000	46.58(M)
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	116642	50.0000	43.36
9 Acrolein	56	1.445	1.445	(0.346)	12157	100.000	75.09

10 Acetone	43	1.970	1.970 (0.472)	62012	100.000	81.38
11 1,1-Dichloroethene	96	1.913	1.913 (0.458)	73395	50.0000	42.44

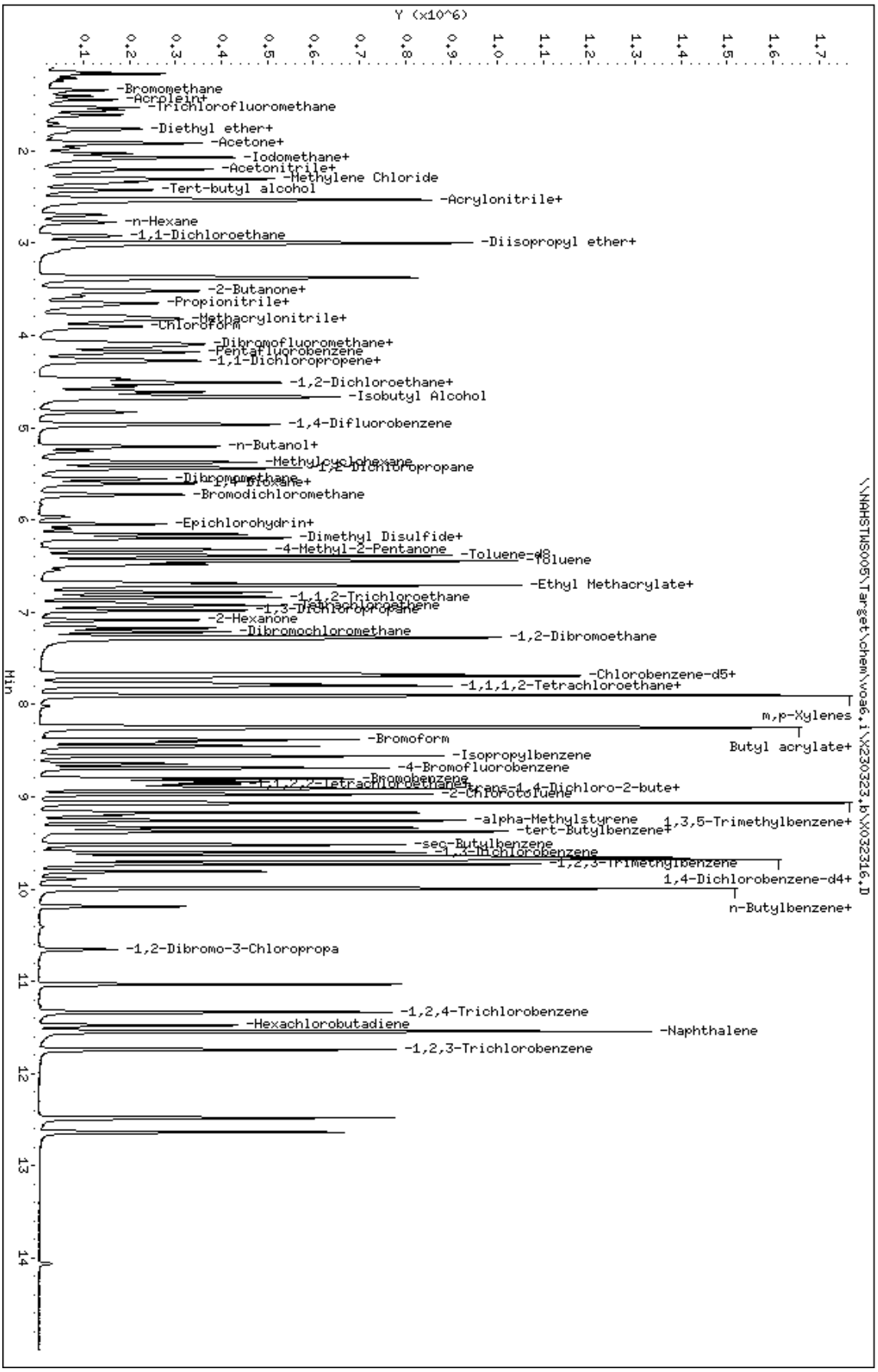
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	15 Iodomethane	142	2.026	2.026	(0.485)	211991	100.000	103.78
	16 Acrylonitrile	53	2.532	2.532	(0.606)	89429	100.000	93.07
	17 Methylene Chloride	84	2.303	2.303	(0.551)	138286	50.0000	49.09
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	420849	50.0000	46.22
	19 Carbon Disulfide	76	2.071	2.071	(0.496)	537267	100.000	84.57
	20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	111299	50.0000	45.63
	21 Vinyl Acetate	43	2.997	2.997	(0.717)	687425	100.000	93.54
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	197226	50.0000	44.65
	24 2-Butanone	43	3.574	3.574	(0.856)	98037	100.000	95.09
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	150600	50.0000	43.25
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	137385	50.0000	46.55
	28 Chloroform	83	3.904	3.904	(0.935)	214838	50.0000	43.82
	29 Bromochloromethane	128	3.792	3.792	(0.908)	75728	50.0000	45.34
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	136432	50.0000	50.86
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	160229	50.0000	43.71
	32 1,1-Dichloropropene	75	4.283	4.283	(0.863)	135012	50.0000	42.48
	33 1,2-Dichloroethane	62	4.553	4.553	(0.917)	171526	50.0000	46.32
	34 Carbon Tetrachloride	117	4.260	4.260	(0.858)	128280	50.0000	42.16
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	147080	50.0000	47.43
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	445431	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	497653	50.0000	45.43
	38 Trichloroethene	130	5.205	5.205	(1.048)	139762	50.0000	47.37
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	182331	50.0000	46.89
	41 2-Chloroethylvinyl ether	63	6.048	6.048	(1.218)	109523	100.000	92.65
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	135110	50.0000	45.77
	44 Dibromomethane	93	5.550	5.550	(1.118)	91448	50.0000	48.57
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.825)	264142	100.000	99.84
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	233699	50.0000	47.58
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	418139	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	528816	50.0000	51.01
	50 Toluene	91	6.446	6.446	(0.841)	525119	50.0000	47.86
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	197767	50.0000	48.51
	52 2-Hexanone	43	7.083	7.083	(0.924)	175974	100.000	96.91
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	114748	50.0000	48.10
	54 1,3-Dichloropropane	76	6.978	6.978	(0.910)	235570	50.0000	49.69
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	169240	50.0000	50.22
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	101393	50.0000	46.10
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	153923	50.0000	52.21
	58 1-Chlorohexane	55	7.698	7.698	(1.550)	80316	50.0000	38.31
	59 Chlorobenzene	112	7.694	7.694	(1.003)	373577	50.0000	47.65
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	147915	50.0000	48.95
	61 Ethylbenzene	106	7.799	7.799	(1.017)	173846	50.0000	45.05
	62 m,p-Xylenes	106	7.900	7.900	(1.030)	443879	100.000	91.41
	63 o-Xylene	106	8.241	8.241	(1.075)	225320	50.0000	46.18
	64 Styrene	104	8.256	8.256	(1.077)	402429	50.0000	49.91
	66 Bromoform	173	8.410	8.410	(1.097)	126823	50.0000	54.43
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	491478	50.0000	43.98
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	200472	50.0000	48.71
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	205915	50.0000	52.02
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	236156	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	166020	50.0000	53.68
	73 n-Propylbenzene	91	8.908	8.908	(0.922)	567940	50.0000	43.27

74	Bromobenzene	156	8.803	8.803 (0.911)	184891	50.0000	48.69
75	1,3,5-Trimethylbenzene	105	9.066	9.066 (0.938)	451263	50.0000	44.32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	391754	50.0000	44.39	
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	452077	50.0000	45.45	
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	353476	50.0000	43.59	
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	481927	50.0000	46.15	
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	456982	50.0000	41.58	
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	439118	50.0000	44.77	
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	308991	50.0000	47.05	
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	321671	50.0000	45.57	
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	342555	50.0000	43.34	
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	317510	50.0000	48.34	
	89 1,2-Dibromo-3-Chloropropane	155	10.652	10.652	(1.102)	39127	50.0000	51.58	
	90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	236626	50.0000	49.27	
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	76483	50.0000	41.54	
	92 Naphthalene	128	11.540	11.540	(1.194)	600054	50.0000	52.06	
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	229356	50.0000	49.91	
M	94 1,2-Dichloroethylene (total)	96				248684	100.000		(a)
	141 Cyclohexane	56	4.118	4.118	(0.986)	122103	50.0000	40.32	
	138 Freon TF	101	1.917	1.917	(0.459)	64717	50.0000	41.00	
	147 Methylcyclohexane	55	5.377	5.377	(1.083)	299552	50.0000	48.70	
	146 Methyl Acetate	43	2.232	2.232	(0.534)	81927	50.0000	49.50	
	148 Tert-Butyl alcohol	59	2.427	2.427	(0.581)	290888	1000.00	964.73	
	149 Isopropyl Alcohol	45	2.090	2.090	(0.500)	153523	1000.00	952.85	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

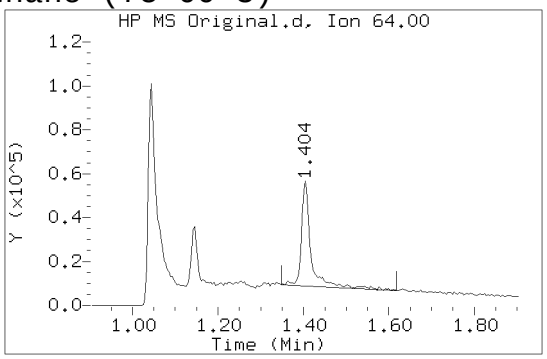
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230323.b\X032316.D
Inj Date : 23-MAR-2023 15:42
InstruID : voa6.i
LabSampID : CCV-END

Chloroethane (75-00-3)

Reason Code:

BEFORE

MASS
64
AREA
74917
HEIGHT
47637
04-Apr-2023
11:52
linh
pham



AFTER

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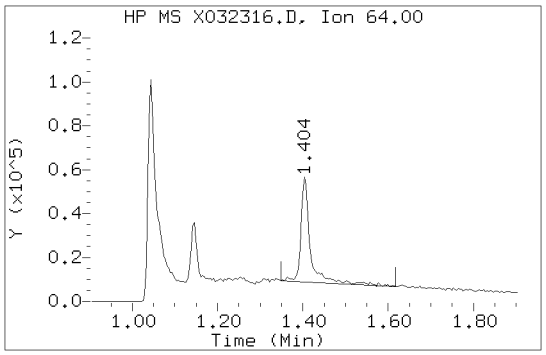

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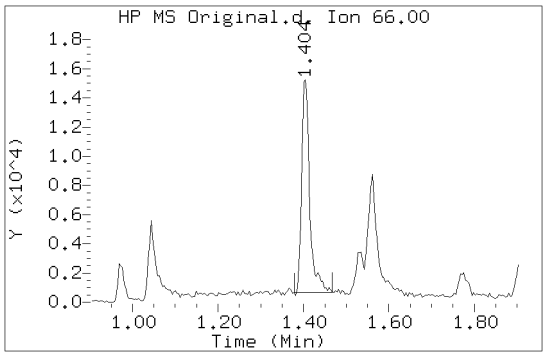

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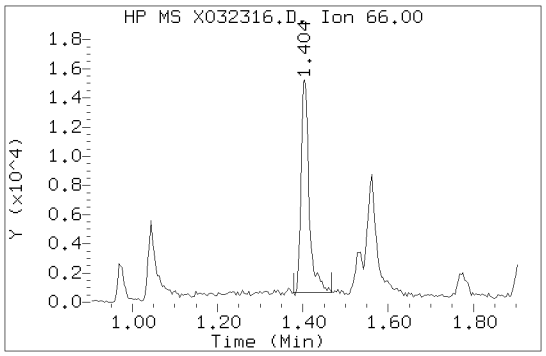

HS23031294-MSSEMI-SW8270SIM

ALS WO# HS23031294

01185509

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right partner.

Form 1

Organic Analysis Data Sheet

Semi-Volatiles by EPA 8270SIM

Workorder

HS23031294

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

Semi-Volatiles by EPA 8270SIM

HS23031294-01		Collected	Received	Matrix	Basis
LH18/24-SP140_032123		03/21/23 13:00	03/22/23 10:00	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	1.2		0.10	0.10	0.10	10	03/30/23 15:51	SV-	11	191255

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

Semi-Volatiles by EPA 8270SIM

MBLK-191255	Collected	Received	Matrix	Basis
MBLK-191255	NA	NA	Aqueous	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.030	U	0.010	0.030	0.030	1	03/30/23 13:29	SV-	05	191255

01185512

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Form 2

System Monitoring Compound Recovery

Semi-Volatiles by EPA 8270SIM

Workorder

HS23031294

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

RunID
SV-6_431416_191255

Semi-Volatiles by EPA 8270SIM

MBLK-191255	Analyzed 03/30/23	Conc Units ug/L	Dilution 1		
Surrogate	**Result Conc**	**Spike Conc**	**%Recovery**	**%Recovery Limits**	**Q**
2-Fluorobiphenyl	0.08506	0.08	106	40-140	
4-Terphenyl-d14	0.08248	0.08	103	40-140	
Nitrobenzene-d5	0.07096	0.08	88.7	40-140	

LCS-191255	Analyzed 03/30/23	Conc Units ug/L	Dilution 1		
Surrogate	**Result Conc**	**Spike Conc**	**%Recovery**	**%Recovery Limits**	**Q**
2-Fluorobiphenyl	0.08091	0.08	101	40-140	
4-Terphenyl-d14	0.08731	0.08	109	40-140	
Nitrobenzene-d5	0.08457	0.08	106	40-140	

LCSD-191255	Analyzed 03/30/23	Conc Units ug/L	Dilution 1		
Surrogate	**Result Conc**	**Spike Conc**	**%Recovery**	**%Recovery Limits**	**Q**
2-Fluorobiphenyl	0.08791	0.08	110	40-140	
4-Terphenyl-d14	0.08675	0.08	108	40-140	
Nitrobenzene-d5	0.08762	0.08	110	40-140	

HS23031294-01	Analyzed 03/30/23	Conc Units ug/L	Dilution 10		
Surrogate	**Result Conc**	**Spike Conc**	**%Recovery**	**%Recovery Limits**	**Q**
2-Fluorobiphenyl	0.083	0.08	104	40-140	
4-Terphenyl-d14	0.20	0.08	253	40-140	*
Nitrobenzene-d5	0.094	0.08	118	40-140	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

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Form 3B

Laboratory Control Sample Recovery

Semi-Volatiles by EPA 8270SIM

Workorder

HS23031294

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

04/04/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

Semi-Volatiles by EPA 8270SIM

SV-6_431416_191255		QC ID	LCS-191255			LCSD-191255					
QC Matrix	Aqueous	Run Date	03/30/23			03/30/23					
Prep Method	SW3510	Units	Run Time	13:47			14:05				
Prep Batch	191255 03/24/23	ug/L	Prep Amt	1000 mL			1000 mL				
Analyte		%R Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,4-Dioxane		40-140	0.08	0.06655	83		0.06461	81.0		20	2.96	
2-Fluorobiphenyl		40-140	0.08	0.08091	101		0.08791	110.0		20	8.29	
4-Terphenyl-d14		40-140	0.08	0.08731	109		0.08675	108.0		20	0.639	
Nitrobenzene-d5		40-140	0.08	0.08457	106		0.08762	110.0		20	3.54	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

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Form 4

Method Blank Summary

Semi-Volatiles by EPA 8270SIM

Workorder

HS23031294

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

04/04/2023

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

Semi-Volatiles by EPA 8270SIM

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	MBLK-191255	05.D	03/30/23 13:29	SV-6_431416_191255
LCS-191255	LCS	LCS-191255	06.D	03/30/23 13:47	SV-6_431416_191255
LCSD-191255	LCSD	LCSD-191255	07.D	03/30/23 14:05	SV-6_431416_191255
LH18/24-SP140_032123	SAMP	HS23031294-01	11.D	03/30/23 15:51	SV-6_431416_191255

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Form 5

Instrument Performance Check

Semi-Volatiles by EPA 8270SIM

Workorder

HS23031294

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

04/04/2023

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